
python-gitlab Documentation

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CHAPTER 1

Installation

python-gitlab is compatible with python 2 and 3.

Use **pip** to install the latest stable version of python-gitlab:

```
$ sudo pip install --upgrade python-gitlab
```

The current development version is available on [github](https://github.com). Use **git** and **python setup.py** to install it:

```
$ git clone https://github.com/python-gitlab/python-gitlab
$ cd python-gitlab
$ sudo python setup.py install
```


`python-gitlab` provides a **gitlab** command-line tool to interact with GitLab servers. It uses a configuration file to define how to connect to the servers.

Configuration

Files

`gitlab` looks up 2 configuration files by default:

`/etc/python-gitlab.cfg` System-wide configuration file

`~/.python-gitlab.cfg` User configuration file

You can use a different configuration file with the `--config-file` option.

Content

The configuration file uses the INI format. It contains at least a `[global]` section, and a specific section for each GitLab server. For example:

```
[global]
default = somewhere
ssl_verify = true
timeout = 5
api_version = 3

[somewhere]
url = https://some.whe.re
private_token = vTbFeqJYCY3sibBP7BZM
api_version = 4

[elsewhere]
```

```
url = http://else.whe.re:8080
private_token = CkqsjqcQSFH5FQKDccu4
timeout = 1
```

The default option of the [global] section defines the GitLab server to use if no server is explicitly specified with the `--gitlab` CLI option.

The [global] section also defines the values for the default connection parameters. You can override the values in each GitLab server section.

Table 2.1: Global options

Option	Possible values	Description
<code>ssl_verify</code>	<code>True</code> , <code>False</code> , or a <code>str</code>	Verify the SSL certificate. Set to <code>False</code> to disable verification, though this will create warnings. Any other value is interpreted as path to a <code>CA_BUNDLE</code> file or directory with certificates of trusted CAs.
<code>timeout</code>	<code>Integer</code>	Number of seconds to wait for an answer before failing.

You must define the `url` and `private_token` in each GitLab server section.

Table 2.2: GitLab server options

Option	Description
<code>url</code>	URL for the GitLab server
<code>private_token</code>	Your user token. Login/password is not supported. Refer to the official documentation to learn how to obtain a token.
<code>api_version</code>	GitLab API version to use (3 or 4). Defaults to 3 for now, but will switch to 4 eventually.
<code>http_username</code>	Username for optional HTTP authentication
<code>http_password</code>	Password for optional HTTP authentication

CLI

Objects and actions

The `gitlab` command expects two mandatory arguments. The first one is the type of object that you want to manipulate. The second is the action that you want to perform. For example:

```
$ gitlab project list
```

Use the `--help` option to list the available object types and actions:

```
$ gitlab --help
$ gitlab project --help
```

Some actions require additional parameters. Use the `--help` option to list mandatory and optional arguments for an action:

```
$ gitlab project create --help
```

Optional arguments

Use the following optional arguments to change the behavior of `gitlab`. These options must be defined before the mandatory arguments.

--verbose, -v Outputs detail about retrieved objects. Available for legacy (default) output only.

--config-file, -c Path to a configuration file.

--gitlab, -g ID of a GitLab server defined in the configuration file.

--output, -o Output format. Defaults to a custom format. Can also be `yaml` or `json`.

--fields, -f Comma-separated list of fields to display (`yaml` and `json` output formats only). If not used, all the object fields are displayed.

Example:

```
$ gitlab -o yaml -f id,permissions -g elsewhere -c /tmp/gl.cfg project list
```

Examples

List the projects (paginated):

```
$ gitlab project list
```

List all the projects:

```
$ gitlab project list --all
```

Limit to 5 items per request, display the 1st page only

```
$ gitlab project list --page 1 --per-page 5
```

Get a specific project (id 2):

```
$ gitlab project get --id 2
```

Get a specific user by id:

```
$ gitlab user get --id 3
```

Get a list of snippets for this project:

```
$ gitlab project-issue list --project-id 2
```

Delete a snippet (id 3):

```
$ gitlab project-snippet delete --id 3 --project-id 2
```

Update a snippet:

```
$ gitlab project-snippet update --id 4 --project-id 2 \
  --code "My New Code"
```

Create a snippet:

```
$ gitlab project-snippet create --project-id 2
Impossible to create object (Missing attribute(s): title, file-name, code)
$ # oops, let's add the attributes:
$ gitlab project-snippet create --project-id 2 --title "the title" \
  --file-name "the name" --code "the code"
```

Define the status of a commit (as would be done from a CI tool for example):

```
$ gitlab project-commit-status create --project-id 2 \
  --commit-id a43290c --state success --name ci/jenkins \
  --target-url http://server/build/123 \
  --description "Jenkins build succeeded"
```

Use sudo to act as another user (admin only):

```
$ gitlab project create --name user_project1 --sudo username
```

Getting started with the API

python-gitlab supports both GitLab v3 and v4 APIs.

v3 being deprecated by GitLab, its support in python-gitlab will be minimal. The development team will focus on v4. v3 is still the default API used by python-gitlab, for compatibility reasons..

Base types

The `gitlab` package provides some base types.

- `gitlab.Gitlab` is the primary class, handling the HTTP requests. It holds the GitLab URL and authentication information.

For v4 the following types are defined:

- `gitlab.base.RESTObject` is the base class for all the GitLab v4 objects. These objects provide an abstraction for GitLab resources (projects, groups, and so on).
- `gitlab.base.RESTManager` is the base class for v4 objects managers, providing the API to manipulate the resources and their attributes.

For v3 the following types are defined:

- `gitlab.base.GitlabObject` is the base class for all the GitLab v3 objects. These objects provide an abstraction for GitLab resources (projects, groups, and so on).
- `gitlab.base.BaseManager` is the base class for v3 objects managers, providing the API to manipulate the resources and their attributes.

`gitlab.Gitlab` class

To connect to a GitLab server, create a `gitlab.Gitlab` object:

```
import gitlab

# private token authentication
gl = gitlab.Gitlab('http://10.0.0.1', 'JVNSEs8EwWRx5yDxM5q')

# or username/password authentication
gl = gitlab.Gitlab('http://10.0.0.1', email='jdoe', password='s3cr3t')

# make an API request to create the gl.user object. This is mandatory if you
# use the username/password authentication.
gl.auth()
```

You can also use configuration files to create `gitlab.Gitlab` objects:

```
gl = gitlab.Gitlab.from_config('somewhere', ['/tmp/gl.cfg'])
```

See the *Configuration* section for more information about configuration files.

API version

`python-gitlab` uses the v3 GitLab API by default. Use the `api_version` parameter to switch to v4:

```
import gitlab

gl = gitlab.Gitlab('http://10.0.0.1', 'JVNSEs8EwWRx5yDxM5q', api_version=4)
```

Warning: The `python-gitlab` API is not the same for v3 and v4. Make sure to read *Switching to GitLab API v4* before upgrading.

v4 will become the default in `python-gitlab`.

Managers

The `gitlab.Gitlab` class provides managers to access the GitLab resources. Each manager provides a set of methods to act on the resources. The available methods depend on the resource type.

Examples:

```
# list all the projects
projects = gl.projects.list()
for project in projects:
    print(project)

# get the group with id == 2
group = gl.groups.get(2)
for group in groups:
    print()

# create a new user
user_data = {'email': 'jen@foo.com', 'username': 'jen', 'name': 'Jen'}
user = gl.users.create(user_data)
print(user)
```


The attributes of objects are defined upon object creation, and depend on the GitLab API itself. To list the available information associated with an object use the python introspection tools for v3, or the `attributes` attribute for v4:

```
project = gl.projects.get(1)

# v3
print(vars(project))
# or
print(project.__dict__)

# v4
print(project.attributes)
```

Some objects also provide managers to access related GitLab resources:

```
# list the issues for a project
project = gl.projects.get(1)
issues = project.issues.list()
```

Gitlab Objects

You can update or delete a remote object when it exists locally:

```
# update the attributes of a resource
project = gl.projects.get(1)
project.wall_enabled = False
# don't forget to apply your changes on the server:
project.save()

# delete the resource
project.delete()
```

Some classes provide additional methods, allowing more actions on the GitLab resources. For example:

```
# star a git repository
project = gl.projects.get(1)
project.star()
```

Lazy objects (v4 only)

To avoid useless calls to the server API, you can create lazy objects. These objects are created locally using a known ID, and give access to other managers and methods.

The following exemple will only make one API call to the GitLab server to star a project:

```
# star a git repository
project = gl.projects.get(1, lazy=True) # no API call
project.star() # API call
```

Pagination

You can use pagination to iterate over long lists. All the Gitlab objects listing methods support the `page` and `per_page` parameters:

```
ten_first_groups = gl.groups.list(page=1, per_page=10)
```

Note: The first page is page 1, not page 0.

By default GitLab does not return the complete list of items. Use the `all` parameter to get all the items when using listing methods:

```
all_groups = gl.groups.list(all=True)
all_owned_projects = gl.projects.owned(all=True)
```

Warning: python-gitlab will iterate over the list by calling the corresponding API multiple times. This might take some time if you have a lot of items to retrieve. This might also consume a lot of memory as all the items will be stored in RAM. If you're encountering the python recursion limit exception, use `safe_all=True` instead to stop pagination automatically if the recursion limit is hit.

With v4, `list()` methods can also return a generator object which will handle the next calls to the API when required:

```
items = gl.groups.list(as_list=False)
for item in items:
    print(item.attributes)
```

Sudo

If you have the administrator status, you can use `sudo` to act as another user. For example:

```
p = gl.projects.create({'name': 'awesome_project'}, sudo='user1')
```

Switching to GtiLab API v4

GitLab provides a new API version (v4) since its 9.0 release. `python-gitlab` provides support for this new version, but the python API has been modified to solve some problems with the existing one.

GitLab will stop supporting the v3 API soon, and you should consider switching to v4 if you use a recent version of GitLab (≥ 9.0), or if you use <http://gitlab.com>.

Using the v4 API

To use the new v4 API, explicitly define `api_version` `` in the `Gitlab` constructor:

```
gl = gitlab.Gitlab(..., api_version=4)
```

If you use the configuration file, also explicitly define the version:

```
[my_gitlab]
...
api_version = 4
```

Changes between v3 and v4 API

For a list of GtiLab (upstream) API changes, see https://docs.gitlab.com/ce/api/v3_to_v4.html.

The `python-gitlab` API reflects these changes. But also consider the following important changes in the python API:

- `managers` and `objects` don't inherit from `GitlabObject` and `BaseManager` anymore. They inherit from `RESTManager` and `RESTObject`.
- You should only use the managers to perform CRUD operations.

The following v3 code:

```
gl = gitlab.Gitlab(...)
p = Project(gl, project_id)
```

Should be replaced with:

```
gl = gitlab.Gitlab(...)
p = gl.projects.get(project_id)
```

- Listing methods (`manager.list()` for instance) can now return generators (*RESTObjectList*). They handle the calls to the API when needed to fetch new items.

By default you will still get lists. To get generators use `as_list=False`:

```
all_projects_g = gl.projects.list(as_list=False)
```

- The “nested” managers (for instance `gl.project_issues` or `gl.group_members`) are not available anymore. Their goal was to provide a direct way to manage nested objects, and to limit the number of needed API calls.

To limit the number of API calls, you can now use `get()` methods with the `lazy=True` parameter. This creates shallow objects that provide usual managers.

The following v3 code:

```
issues = gl.project_issues.list(project_id=project_id)
```

Should be replaced with:

```
issues = gl.projects.get(project_id, lazy=True).issues.list()
```

This will make only one API call, instead of two if `lazy` is not used.

- The *Gitlab* following methods should not be used anymore for v4:
 - `list()`
 - `get()`
 - `create()`
 - `update()`
 - `delete()`
- If you need to perform HTTP requests to the GitLab server (which you shouldn't), you can use the following *Gitlab* methods:
 - `http_request`
 - `http_get`
 - `http_list`
 - `http_post`
 - `http_put`
 - `http_delete`

Access requests

Users can request access to groups and projects.

When access is granted the user should be given a numerical access level. The following constants are provided to represent the access levels:

- `gitlab.GUEST_ACCESS: 10`
- `gitlab.REPORTER_ACCESS: 20`
- `gitlab.DEVELOPER_ACCESS: 30`
- `gitlab.MASTER_ACCESS: 40`
- `gitlab.OWNER_ACCESS: 50`

References

- v4 API:
 - `gitlab.v4.objects.ProjectAccessRequest`
 - `gitlab.v4.objects.ProjectAccessRequestManager`
 - `gitlab.v4.objects.Project.accessrequests`
 - `gitlab.v4.objects.GroupAccessRequest`
 - `gitlab.v4.objects.GroupAccessRequestManager`
 - `gitlab.v4.objects.Group.accessrequests`
- v3 API:
 - `gitlab.v3.objects.ProjectAccessRequest`
 - `gitlab.v3.objects.ProjectAccessRequestManager`

- `gitlab.v3.objects.Project.accessrequests`
- `gitlab.Gitlab.project_accessrequests`
- `gitlab.v3.objects.GroupAccessRequest`
- `gitlab.v3.objects.GroupAccessRequestManager`
- `gitlab.v3.objects.Group.accessrequests`
- `gitlab.Gitlab.group_accessrequests`

- GitLab API: https://docs.gitlab.com/ce/api/access_requests.html

Examples

List access requests from projects and groups:

```
p_ar = project.accessrequests.list()
g_ar = group.accessrequests.list()
```

Get a single request:

```
p_ar = project.accessrequests.get(user_id)
g_ar = group.accessrequests.get(user_id)
```

Create an access request:

```
p_ar = project.accessrequests.create({})
g_ar = group.accessrequests.create({})
```

Approve an access request:

```
ar.approve() # defaults to DEVELOPER level
ar.approve(access_level=gitlab.MASTER_ACCESS) # explicitly set access level
```

Deny (delete) an access request:

```
project.accessrequests.delete(user_id)
group.accessrequests.delete(user_id)
# or
ar.delete()
```

Branches

References

- v4 API:
 - `gitlab.v4.objects.ProjectBranch`
 - `gitlab.v4.objects.ProjectBranchManager`
 - `gitlab.v4.objects.Project.branches`
- v3 API:
 - `gitlab.v3.objects.ProjectBranch`

- `gitlab.v3.objects.ProjectBranchManager`
- `gitlab.v3.objects.Project.branches`
- GitLab API: <https://docs.gitlab.com/ce/api/branches.html>

Examples

Get the list of branches for a repository:

```
branches = project.branches.list()
```

Get a single repository branch:

```
branch = project.branches.get('master')
```

Create a repository branch:

```
# v4
branch = project.branches.create({'branch': 'feature1',
                                  'ref': 'master'})

#v3
branch = project.branches.create({'branch_name': 'feature1',
                                  'ref': 'master'})
```

Delete a repository branch:

```
project.branches.delete('feature1')
# or
branch.delete()
```

Protect/unprotect a repository branch:

```
branch.protect()
branch.unprotect()
```

Note: By default, developers are not authorized to push or merge into protected branches. This can be changed by passing `developers_can_push` or `developers_can_merge`:

```
branch.protect(developers_can_push=True, developers_can_merge=True)
```

Broadcast messages

You can use broadcast messages to display information on all pages of the gitlab web UI. You must have administration permissions to manipulate broadcast messages.

References

- v4 API:
 - `gitlab.v4.objects.BroadcastMessage`

- `gitlab.v4.objects.BroadcastMessageManager`
- `gitlab.Gitlab.broadcastmessages`
- v3 API:
 - `gitlab.v3.objects.BroadcastMessage`
 - `gitlab.v3.objects.BroadcastMessageManager`
 - `gitlab.Gitlab.broadcastmessages`
- GitLab API: https://docs.gitlab.com/ce/api/broadcast_messages.html

Examples

List the messages:

```
msgs = gl.broadcastmessages.list()
```

Get a single message:

```
msg = gl.broadcastmessages.get(msg_id)
```

Create a message:

```
msg = gl.broadcastmessages.create({'message': 'Important information'})
```

The date format for `starts_at` and `ends_at` parameters is `YYYY-MM-ddThh:mm:ssZ`.

Update a message:

```
msg.font = '#444444'  
msg.color = '#999999'  
msg.save()
```

Delete a message:

```
gl.broadcastmessages.delete(msg_id)  
# or  
msg.delete()
```

Jobs (v4 API) / Builds (v3 API)

Build and job are two classes representing the same object. Builds are used in v3 API, jobs in v4 API.

Triggers

Triggers provide a way to interact with the GitLab CI. Using a trigger a user or an application can run a new build/job for a specific commit.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectTrigger`
 - `gitlab.v4.objects.ProjectTriggerManager`
 - `gitlab.v4.objects.Project.triggers`
- v3 API:
 - `gitlab.v3.objects.ProjectTrigger`
 - `gitlab.v3.objects.ProjectTriggerManager`
 - `gitlab.v3.objects.Project.triggers`
 - `gitlab.Gitlab.project_triggers`
- GitLab API: https://docs.gitlab.com/ce/api/pipeline_triggers.html

Examples

List triggers:

```
triggers = project.triggers.list()
```

Get a trigger:

```
trigger = project.triggers.get(trigger_token)
```

Create a trigger:

```
trigger = project.triggers.create({})
```

Remove a trigger:

```
project.triggers.delete(trigger_token)
# or
trigger.delete()
```

Projects and groups variables

You can associate variables to projects and groups to modify the build/job scripts behavior.

Reference

- v4 API
 - `gitlab.v4.objects.ProjectVariable`
 - `gitlab.v4.objects.ProjectVariableManager`
 - `gitlab.v4.objects.Project.variables`
 - `gitlab.v4.objects.GroupVariable`
 - `gitlab.v4.objects.GroupVariableManager`

- `gitlab.v4.objects.Group.variables`
- v3 API
 - `gitlab.v3.objects.ProjectVariable`
 - `gitlab.v3.objects.ProjectVariableManager`
 - `gitlab.v3.objects.Project.variables`
 - `gitlab.Gitlab.project_variables`
- GitLab API
 - https://docs.gitlab.com/ce/api/project_level_variables.html
 - https://docs.gitlab.com/ce/api/group_level_variables.html

Examples

List variables:

```
p_variables = project.variables.list()
g_variables = group.variables.list()
```

Get a variable:

```
p_var = project.variables.get(var_key)
g_var = group.variables.get(var_key)
```

Create a variable:

```
var = project.variables.create({'key': 'key1', 'value': 'value1'})
var = group.variables.create({'key': 'key1', 'value': 'value1'})
```

Update a variable value:

```
var.value = 'new_value'
var.save()
```

Remove a variable:

```
project.variables.delete(var_key)
group.variables.delete(var_key)
# or
var.delete()
```

Builds/Jobs

Builds/Jobs are associated to projects and commits. They provide information on the builds/jobs that have been run, and methods to manipulate them.

Reference

- v4 API
 - `gitlab.v4.objects.ProjectJob`

- `gitlab.v4.objects.ProjectJobManager`
- `gitlab.v4.objects.Project.jobs`
- v3 API
 - `gitlab.v3.objects.ProjectJob`
 - `gitlab.v3.objects.ProjectJobManager`
 - `gitlab.v3.objects.Project.jobs`
 - `gitlab.Gitlab.project_jobs`
- GitLab API: <https://docs.gitlab.com/ce/api/jobs.html>

Examples

Jobs are usually automatically triggered, but you can explicitly trigger a new job:

Trigger a new job on a project:

```
project.trigger_build('master', trigger_token,
                     {'extra_var1': 'foo', 'extra_var2': 'bar'})
```

List jobs for the project:

```
builds = project.builds.list() # v3
jobs = project.jobs.list() # v4
```

To list builds for a specific commit, create a `ProjectCommit` object and use its `builds` method (v3 only):

```
# v3 only
commit = gl.project_commits.get(commit_sha, project_id=1)
builds = commit.builds()
```

Get a job:

```
project.builds.get(build_id) # v3
project.jobs.get(job_id) # v4
```

Get a job artifact:

```
build_or_job.artifacts()
```

Warning: Artifacts are entirely stored in memory in this example.

You can download artifacts as a stream. Provide a callable to handle the stream:

```
class Foo(object):
    def __init__(self):
        self._fd = open('artifacts.zip', 'wb')

    def __call__(self, chunk):
        self._fd.write(chunk)

target = Foo()
```

```
build_or_job.artifacts(streamed=True, action=target)
del(target) # flushes data on disk
```

Mark a job artifact as kept when expiration is set:

```
build_or_job.keep_artifacts()
```

Get a job trace:

```
build_or_job.trace()
```

Warning: Traces are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Cancel/retry a job:

```
build_or_job.cancel()
build_or_job.retry()
```

Play (trigger) a job:

```
build_or_job.play()
```

Erase a job (artifacts and trace):

```
build_or_job.erase()
```

Commits

Commits

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectCommit`
 - `gitlab.v4.objects.ProjectCommitManager`
 - `gitlab.v4.objects.Project.commits`
- v3 API:
 - `gitlab.v3.objects.ProjectCommit`
 - `gitlab.v3.objects.ProjectCommitManager`
 - `gitlab.v3.objects.Project.commits`
 - `gitlab.Gitlab.project_commits`
- GitLab API: <https://docs.gitlab.com/ce/api/commits.html>

Examples

List the commits for a project:

```
commits = project.commits.list()
```

You can use the `ref_name`, `since` and `until` filters to limit the results:

```
commits = project.commits.list(ref_name='my_branch')
commits = project.commits.list(since='2016-01-01T00:00:00Z')
```

Create a commit:

```
# See https://docs.gitlab.com/ce/api/commits.html#create-a-commit-with-multiple-files-
↳and-actions
# for actions detail
data = {
    'branch_name': 'master', # v3
    'branch': 'master', # v4
    'commit_message': 'blah blah blah',
    'actions': [
        {
            'action': 'create',
            'file_path': 'blah',
            'content': 'blah'
        }
    ]
}

commit = project.commits.create(data)
```

Get a commit detail:

```
commit = project.commits.get('e3d5a71b')
```

Get the diff for a commit:

```
diff = commit.diff()
```

Cherry-pick a commit into another branch:

```
commit.cherry_pick(branch='target_branch')
```

Commit comments

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectCommitComment`
 - `gitlab.v4.objects.ProjectCommitCommentManager`
 - `gitlab.v4.objects.Commit.comments`
- v3 API:
 - `gitlab.v3.objects.ProjectCommit`

- `gitlab.v3.objects.ProjectCommitManager`
 - `gitlab.v3.objects.Commit.comments`
 - `gitlab.v3.objects.Project.commit_comments`
 - `gitlab.Gitlab.project_commit_comments`
- GitLab API: <https://docs.gitlab.com/ce/api/commits.html>

Examples

Get the comments for a commit:

```
comments = commit.comments.list()
```

Add a comment on a commit:

```
# Global comment
commit = commit.comments.create({'note': 'This is a nice comment'})
# Comment on a line in a file (on the new version of the file)
commit = commit.comments.create({'note': 'This is another comment',
                                'line': 12,
                                'line_type': 'new',
                                'path': 'README.rst'})
```

Commit status

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectCommitStatus`
 - `gitlab.v4.objects.ProjectCommitStatusManager`
 - `gitlab.v4.objects.Commit.statuses`
- v3 API:
 - `gitlab.v3.objects.ProjectCommit`
 - `gitlab.v3.objects.ProjectCommitManager`
 - `gitlab.v3.objects.Commit.statuses`
 - `gitlab.v3.objects.Project.commit_statuses`
 - `gitlab.Gitlab.project_commit_statuses`
- GitLab API: <https://docs.gitlab.com/ce/api/commits.html>

Examples

Get the statuses for a commit:

```
statuses = commit.statuses.list()
```

Change the status of a commit:

```
commit.statuses.create({'state': 'success'})
```

Deploy keys

Deploy keys

Reference

- v4 API:
 - `gitlab.v4.objects.DeployKey`
 - `gitlab.v4.objects.DeployKeyManager`
 - `gitlab.Gitlab.deploykeys`
- v3 API:
 - `gitlab.v3.objects.Key`
 - `gitlab.v3.objects.KeyManager`
 - `gitlab.Gitlab.deploykeys`
- GitLab API: https://docs.gitlab.com/ce/api/deploy_keys.html

Examples

List the deploy keys:

```
keys = gl.deploykeys.list()
```

Get a single deploy key:

```
key = gl.deploykeys.get(key_id)
```

Deploy keys for projects

Deploy keys can be managed on a per-project basis.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectKey`
 - `gitlab.v4.objects.ProjectKeyManager`
 - `gitlab.v4.objects.Project.keys`
- v3 API:
 - `gitlab.v3.objects.ProjectKey`
 - `gitlab.v3.objects.ProjectKeyManager`

- `gitlab.v3.objects.Project.keys`
- `gitlab.Gitlab.project_keys`
- GitLab API: https://docs.gitlab.com/ce/api/deploy_keys.html

Examples

List keys for a project:

```
keys = project.keys.list()
```

Get a single deploy key:

```
key = project.keys.get(key_id)
```

Create a deploy key for a project:

```
key = project.keys.create({'title': 'jenkins key',  
                           'key': open('/home/me/.ssh/id_rsa.pub').read()})
```

Delete a deploy key for a project:

```
key = project.keys.list(key_id)  
# or  
key.delete()
```

Enable a deploy key for a project:

```
project.keys.enable(key_id)
```

Disable a deploy key for a project:

```
project_key.delete() # v4  
project.keys.disable(key_id) # v3
```

Deployments

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectDeployment`
 - `gitlab.v4.objects.ProjectDeploymentManager`
 - `gitlab.v4.objects.Project.deployments`
- v3 API:
 - `gitlab.v3.objects.ProjectDeployment`
 - `gitlab.v3.objects.ProjectDeploymentManager`
 - `gitlab.v3.objects.Project.deployments`
 - `gitlab.Gitlab.project_deployments`
- GitLab API: <https://docs.gitlab.com/ce/api/deployments.html>

Examples

List deployments for a project:

```
deployments = project.deployments.list()
```

Get a single deployment:

```
deployment = project.deployments.get(deployment_id)
```

Environments

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectEnvironment`
 - `gitlab.v4.objects.ProjectEnvironmentManager`
 - `gitlab.v4.objects.Project.environments`
- v3 API:
 - `gitlab.v3.objects.ProjectEnvironment`
 - `gitlab.v3.objects.ProjectEnvironmentManager`
 - `gitlab.v3.objects.Project.environments`
 - `gitlab.Gitlab.project_environments`
- GitLab API: <https://docs.gitlab.com/ce/api/environments.html>

Examples

List environments for a project:

```
environments = project.environments.list()
```

Get a single environment:

```
environment = project.environments.get(environment_id)
```

Create an environment for a project:

```
environment = project.environments.create({'name': 'production'})
```

Update an environment for a project:

```
environment.external_url = 'http://foo.bar.com'  
environment.save()
```

Delete an environment for a project:

```
environment = project.environments.delete(environment_id)
# or
environment.delete()
```

Groups

Groups

Reference

- v4 API:
 - `gitlab.v4.objects.Group`
 - `gitlab.v4.objects.GroupManager`
 - `gitlab.Gitlab.groups`
- v3 API:
 - `gitlab.v3.objects.Group`
 - `gitlab.v3.objects.GroupManager`
 - `gitlab.Gitlab.groups`
- GitLab API: <https://docs.gitlab.com/ce/api/groups.html>

Examples

List the groups:

```
groups = gl.groups.list()
```

Get a group's detail:

```
group = gl.groups.get(group_id)
```

List a group's projects:

```
projects = group.projects.list()
```

You can filter and sort the result using the following parameters:

- `archived`: limit by archived status
- `visibility`: limit by visibility. Allowed values are `public`, `internal` and `private`
- `search`: limit to groups matching the given value
- `order_by`: sort by criteria. Allowed values are `id`, `name`, `path`, `created_at`, `updated_at` and `last_activity_at`
- `sort`: sort order: `asc` or `desc`
- `ci_enabled_first`: return CI enabled groups first

Create a group:

```
group = gl.groups.create({'name': 'group1', 'path': 'group1'})
```

Update a group:

```
group.description = 'My awesome group'
group.save()
```

Remove a group:

```
gl.group.delete(group_id)
# or
group.delete()
```

Group members

The following constants define the supported access levels:

- `gitlab.GUEST_ACCESS = 10`
- `gitlab.REPORTER_ACCESS = 20`
- `gitlab.DEVELOPER_ACCESS = 30`
- `gitlab.MASTER_ACCESS = 40`
- `gitlab.OWNER_ACCESS = 50`

Reference

- v4 API:
 - `gitlab.v4.objects.GroupMember`
 - `gitlab.v4.objects.GroupMemberManager`
 - `gitlab.v4.objects.Group.members`
- v3 API:
 - `gitlab.v3.objects.GroupMember`
 - `gitlab.v3.objects.GroupMemberManager`
 - `gitlab.v3.objects.Group.members`
 - `gitlab.Gitlab.group_members`
- GitLab API: <https://docs.gitlab.com/ce/api/groups.html>

Examples

List group members:

```
members = group.members.list()
```

Get a group member:

```
members = group.members.get(member_id)
```

Add a member to the group:

```
member = group.members.create({'user_id': user_id,
                              'access_level': gitlab.GUEST_ACCESS})
```

Update a member (change the access level):

```
member.access_level = gitlab.DEVELOPER_ACCESS
member.save()
```

Remove a member from the group:

```
group.members.delete(member_id)
# or
member.delete()
```

Issues

Reported issues

Reference

- v4 API:
 - *gitlab.v4.objects.Issue*
 - *gitlab.v4.objects.IssueManager*
 - *gitlab.Gitlab.issues*
- v3 API:
 - *gitlab.v3.objects.Issue*
 - *gitlab.v3.objects.IssueManager*
 - *gitlab.Gitlab.issues*
- GitLab API: <https://docs.gitlab.com/ce/api/issues.html>

Examples

List the issues:

```
issues = gl.issues.list()
```

Use the `state` and `label` parameters to filter the results. Use the `order_by` and `sort` attributes to sort the results:

```
open_issues = gl.issues.list(state='opened')
closed_issues = gl.issues.list(state='closed')
tagged_issues = gl.issues.list(labels=['foo', 'bar'])
```

Group issues

Reference

- v4 API:
 - `gitlab.v4.objects.GroupIssue`
 - `gitlab.v4.objects.GroupIssueManager`
 - `gitlab.v4.objects.Group.issues`
- v3 API:
 - `gitlab.v3.objects.GroupIssue`
 - `gitlab.v3.objects.GroupIssueManager`
 - `gitlab.v3.objects.Group.issues`
 - `gitlab.Gitlab.group_issues`
- GitLab API: <https://docs.gitlab.com/ce/api/issues.html>

Examples

List the group issues:

```
issues = group.issues.list()
# Filter using the state, labels and milestone parameters
issues = group.issues.list(milestone='1.0', state='opened')
# Order using the order_by and sort parameters
issues = group.issues.list(order_by='created_at', sort='desc')
```

Project issues

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectIssue`
 - `gitlab.v4.objects.ProjectIssueManager`
 - `gitlab.v4.objects.Project.issues`
- v3 API:
 - `gitlab.v3.objects.ProjectIssue`
 - `gitlab.v3.objects.ProjectIssueManager`
 - `gitlab.v3.objects.Project.issues`
 - `gitlab.Gitlab.project_issues`
- GitLab API: <https://docs.gitlab.com/ce/api/issues.html>

Examples

List the project issues:

```
issues = project.issues.list()
# Filter using the state, labels and milestone parameters
issues = project.issues.list(milestone='1.0', state='opened')
# Order using the order_by and sort parameters
issues = project.issues.list(order_by='created_at', sort='desc')
```

Get a project issue:

```
issue = project.issues.get(issue_id)
```

Create a new issue:

```
issue = project.issues.create({'title': 'I have a bug',
                              'description': 'Something useful here.'})
```

Update an issue:

```
issue.labels = ['foo', 'bar']
issue.save()
```

Close / reopen an issue:

```
# close an issue
issue.state_event = 'close'
issue.save()
# reopen it
issue.state_event = 'reopen'
issue.save()
```

Delete an issue:

```
project.issues.delete(issue_id)
# pr
issue.delete()
```

Subscribe / unsubscribe from an issue:

```
issue.subscribe()
issue.unsubscribe()
```

Move an issue to another project:

```
issue.move(new_project_id)
```

Make an issue as todo:

```
issue.todo()
```

Get time tracking stats:

```
issue.time_stats()
```

Set a time estimate for an issue:

```
issue.set_time_estimate({'duration': '3h30m'})
```

Reset a time estimate for an issue:

```
issue.reset_time_estimate()
```

Add spent time for an issue:

```
issue.add_time_spent({'duration': '3h30m'})
```

Reset spent time for an issue:

```
issue.reset_time_spent()
```

Labels

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectLabel`
 - `gitlab.v4.objects.ProjectLabelManager`
 - `gitlab.v4.objects.Project.labels`
- v3 API:
 - `gitlab.v3.objects.ProjectLabel`
 - `gitlab.v3.objects.ProjectLabelManager`
 - `gitlab.v3.objects.Project.labels`
 - `gitlab.Gitlab.project_labels`
- GitLab API: <https://docs.gitlab.com/ce/api/labels.html>

Examples

List labels for a project:

```
labels = project.labels.list()
```

Get a single label:

```
label = project.labels.get(label_name)
```

Create a label for a project:

```
label = project.labels.create({'name': 'foo', 'color': '#8899aa'})
```

Update a label for a project:

```
# change the name of the label:
label.new_name = 'bar'
label.save()
# change its color:
label.color = '#112233'
label.save()
```

Delete a label for a project:

```
project.labels.delete(label_id)
# or
label.delete()
```

Notification settings

You can define notification settings globally, for groups and for projects. Valid levels are defined as constants:

- `gitlab.NOTIFICATION_LEVEL_DISABLED`
- `gitlab.NOTIFICATION_LEVEL_PARTICIPATING`
- `gitlab.NOTIFICATION_LEVEL_WATCH`
- `gitlab.NOTIFICATION_LEVEL_GLOBAL`
- `gitlab.NOTIFICATION_LEVEL_MENTION`
- `gitlab.NOTIFICATION_LEVEL_CUSTOM`

You get access to fine-grained settings if you use the `NOTIFICATION_LEVEL_CUSTOM` level.

Reference

- v4 API:
 - `gitlab.v4.objects.NotificationSettings`
 - `gitlab.v4.objects.NotificationSettingsManager`
 - `gitlab.Gitlab.notificationsettings`
 - `gitlab.v4.objects.GroupNotificationSettings`
 - `gitlab.v4.objects.GroupNotificationSettingsManager`
 - `gitlab.v4.objects.Group.notificationsettings`
 - `gitlab.v4.objects.ProjectNotificationSettings`
 - `gitlab.v4.objects.ProjectNotificationSettingsManager`
 - `gitlab.v4.objects.Project.notificationsettings`
- v3 API:
 - `gitlab.v3.objects.NotificationSettings`
 - `gitlab.v3.objects.NotificationSettingsManager`
 - `gitlab.Gitlab.notificationsettings`
 - `gitlab.v3.objects.GroupNotificationSettings`

- `gitlab.v3.objects.GroupNotificationSettingsManager`
- `gitlab.v3.objects.Group.notificationsettings`
- `gitlab.v3.objects.ProjectNotificationSettings`
- `gitlab.v3.objects.ProjectNotificationSettingsManager`
- `gitlab.v3.objects.Project.notificationsettings`

- GitLab API: https://docs.gitlab.com/ce/api/notification_settings.html

Examples

Get the settings:

```
# global settings
settings = gl.notificationsettings.get()
# for a group
settings = gl.groups.get(group_id).notificationsettings.get()
# for a project
settings = gl.projects.get(project_id).notificationsettings.get()
```

Update the settings:

```
# use a predefined level
settings.level = gitlab.NOTIFICATION_LEVEL_WATCH
# create a custom setup
settings.level = gitlab.NOTIFICATION_LEVEL_CUSTOM
settings.save() # will create additional attributes, but not mandatory

settings.new_merge_request = True
settings.new_issue = True
settings.new_note = True
settings.save()
```

Merge requests

You can use merge requests to notify a project that a branch is ready for merging. The owner of the target project can accept the merge request.

The v3 API uses the `id` attribute to identify a merge request, the v4 API uses the `iid` attribute.

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectMergeRequest`
 - `gitlab.v4.objects.ProjectMergeRequestManager`
 - `gitlab.v4.objects.Project.mergerequests`
- v3 API:
 - `gitlab.v3.objects.ProjectMergeRequest`
 - `gitlab.v3.objects.ProjectMergeRequestManager`

- `gitlab.v3.objects.Project.mergerequests`
- `gitlab.Gitlab.project_mergerequests`
- GitLab API: https://docs.gitlab.com/ce/api/merge_requests.html

Examples

List MRs for a project:

```
mrs = project.mergerequests.list()
```

You can filter and sort the returned list with the following parameters:

- `iid`: iid (unique ID for the project) of the MR (v3 API)
- `state`: state of the MR. It can be one of all, merged, opened or closed
- `order_by`: sort by `created_at` or `updated_at`
- `sort`: sort order (asc or desc)

For example:

```
mrs = project.mergerequests.list()
```

Get a single MR:

```
mr = project.mergerequests.get(mr_id)
```

Create a MR:

```
mr = project.mergerequests.create({'source_branch': 'cool_feature',  
                                  'target_branch': 'master',  
                                  'title': 'merge cool feature'})
```

Update a MR:

```
mr.description = 'New description'  
mr.save()
```

Change the state of a MR (close or reopen):

```
mr.state_event = 'close' # or 'reopen'  
mr.save()
```

Delete a MR:

```
project.mergerequests.delete(mr_id)  
# or  
mr.delete()
```

Accept a MR:

```
mr.merge()
```

Cancel a MR when the build succeeds:

```
mr.cancel_merge_when_build_succeeds() # v3
mr.cancel_merge_when_pipeline_succeeds() # v4
```

List issues that will close on merge:

```
mr.closes_issues()
```

Subscribe/unsubscribe a MR:

```
mr.subscribe()
mr.unsubscribe()
```

Mark a MR as todo:

```
mr.todo()
```

List the diffs for a merge request:

```
diffs = mr.diffs.list()
```

Get a diff for a merge request:

```
diff = mr.diffs.get(diff_id)
```

Namespaces

Reference

- v4 API:
 - `gitlab.v4.objects.Namespace`
 - `gitlab.v4.objects.NamespaceManager`
 - `gitlab.Gitlab.namespaces`
- v3 API:
 - `gitlab.v3.objects.Namespace`
 - `gitlab.v3.objects.NamespaceManager`
 - `gitlab.Gitlab.namespaces`
- GitLab API: <https://docs.gitlab.com/ce/api/namespaces.html>

Examples

List namespaces:

```
namespaces = gl.namespaces.list()
```

Search namespaces:

```
namespaces = gl.namespaces.list(search='foo')
```

Milestones

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectMilestone`
 - `gitlab.v4.objects.ProjectMilestoneManager`
 - `gitlab.v4.objects.Project.milestones`
- v3 API:
 - `gitlab.v3.objects.ProjectMilestone`
 - `gitlab.v3.objects.ProjectMilestoneManager`
 - `gitlab.v3.objects.Project.milestones`
 - `gitlab.Gitlab.project_milestones`
- GitLab API: <https://docs.gitlab.com/ce/api/milestones.html>

Examples

List the milestones for a project:

```
milestones = project.milestones.list()
```

You can filter the list using the following parameters:

- `iid`: unique ID of the milestone for the project
- `state`: either `active` or `closed`

```
milestones = project.milestones.list(state='closed')
```

Get a single milestone:

```
milestone = project.milestones.get(milestone_id)
```

Create a milestone:

```
milestone = project.milestones.create({'title': '1.0'})
```

Edit a milestone:

```
milestone.description = 'v 1.0 release'  
milestone.save()
```

Change the state of a milestone (activate / close):

```
# close a milestone  
milestone.state_event = 'close'  
milestone.save()  
  
# activate a milestone  
milestone.state_event = 'activate'  
milestone.save()
```

List the issues related to a milestone:

```
issues = milestone.issues()
```

List the merge requests related to a milestone:

```
merge_requests = milestone.merge_requests()
```

Projects

Projects

Reference

- v4 API:
 - `gitlab.v4.objects.Project`
 - `gitlab.v4.objects.ProjectManager`
 - `gitlab.Gitlab.projects`
- v3 API:
 - `gitlab.v3.objects.Project`
 - `gitlab.v3.objects.ProjectManager`
 - `gitlab.Gitlab.projects`
- GitLab API: <https://docs.gitlab.com/ce/api/projects.html>

Examples

List projects:

The API provides several filtering parameters for the listing methods:

- `archived`: if `True` only archived projects will be returned
- `visibility`: returns only projects with the specified visibility (can be `public`, `internal` or `private`)
- `search`: returns project matching the given pattern

Results can also be sorted using the following parameters:

- `order_by`: sort using the given argument. Valid values are `id`, `name`, `path`, `created_at`, `updated_at` and `last_activity_at`. The default is to sort by `created_at`
- `sort`: sort order (`asc` or `desc`)

```
# Active projects
projects = gl.projects.list()
# Archived projects
projects = gl.projects.list(archived=1)
# Limit to projects with a defined visibility
projects = gl.projects.list(visibility='public')

# List owned projects
```

```
projects = gl.projects.owned()

# List starred projects
projects = gl.projects.starred()

# List all the projects
projects = gl.projects.all()

# Search projects
projects = gl.projects.list(search='keyword')
```

Get a single project:

```
# Get a project by ID
project = gl.projects.get(10)
# Get a project by userspace/name
project = gl.projects.get('myteam/myproject')
```

Create a project:

```
project = gl.projects.create({'name': 'project1'})
```

Create a project for a user (admin only):

```
alice = gl.users.list(username='alice')[0]
user_project = gl.user_projects.create({'name': 'project',
                                       'user_id': alice.id})
```

Create a project in a group:

You need to get the id of the group, then use the `namespace_id` attribute to create the group:

```
group_id = gl.groups.search('my-group')[0].id
project = gl.projects.create({'name': 'myrepo', 'namespace_id': group_id})
```

Update a project:

```
project.snippets_enabled = 1
project.save()
```

Delete a project:

```
gl.projects.delete(1)
# or
project.delete()
```

Fork a project:

```
fork = project.forks.create({})

# fork to a specific namespace
fork = gl.project_forks.create({'namespace': 'myteam'}, project_id=1)
```

Create/delete a fork relation between projects (requires admin permissions):

```
project.create_fork_relation(source_project.id)
project.delete_fork_relation()
```

Star/unstar a project:

```
project.star()
project.unstar()
```

Archive/unarchive a project:

```
project.archive()
project.unarchive()
```

Note: Previous versions used `archive_` and `unarchive_` due to a naming issue, they have been deprecated but not yet removed.

List the repository tree:

```
# list the content of the root directory for the default branch
items = project.repository_tree()

# list the content of a subdirectory on a specific branch
items = project.repository_tree(path='docs', ref='branch1')
```

Get the content of a file for a commit:

```
file_content = p.repository_blob('master', 'README.rst')
```

Get the repository archive:

```
# get the archive for the default branch
tgz = project.repository_archive()

# get the archive for a branch/tag/commit
tgz = project.repository_archive(sha='4567abc')
```

Warning: Archives are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Get the content of a file using the blob id:

```
# find the id for the blob (simple search)
id = [d['id'] for d in p.repository_tree() if d['name'] == 'README.rst'][0]

# get the content
file_content = p.repository_raw_blob(id)
```

Warning: Blobs are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Compare two branches, tags or commits:

```
result = project.repository_compare('master', 'branch1')

# get the commits
for commit in result['commits']:
    print(commit)
```

```
# get the diffs
for file_diff in result['diffs']:
    print(file_diff)
```

Get a list of contributors for the repository:

```
contributors = project.repository_contributors()
```

Project files

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectFile`
 - `gitlab.v4.objects.ProjectFileManager`
 - `gitlab.v4.objects.Project.files`
- v3 API:
 - `gitlab.v3.objects.ProjectFile`
 - `gitlab.v3.objects.ProjectFileManager`
 - `gitlab.v3.objects.Project.files`
 - `gitlab.Gitlab.project_files`
- GitLab API: https://docs.gitlab.com/ce/api/repository_files.html

Examples

Get a file:

```
f = project.files.get(file_path='README.rst', ref='master')

# get the base64 encoded content
print(f.content)

# get the decoded content
print(f.decode())
```

Create a new file:

```
# v4
f = project.files.create({'file_path': 'testfile',
                          'branch': 'master',
                          'content': file_content,
                          'commit_message': 'Create testfile'})

# v3
f = project.files.create({'file_path': 'testfile',
                          'branch_name': 'master',
                          'content': file_content,
                          'commit_message': 'Create testfile'})
```


Update a file. The entire content must be uploaded, as plain text or as base64 encoded text:

```
f.content = 'new content'
f.save(branch='master', commit_message='Update testfile') # v4
f.save(branch_name='master', commit_message='Update testfile') # v3

# or for binary data
# Note: decode() is required with python 3 for data serialization. You can omit
# it with python 2
f.content = base64.b64encode(open('image.png').read()).decode()
f.save(branch='master', commit_message='Update testfile', encoding='base64')
```

Delete a file:

```
f.delete(commit_message='Delete testfile')
```

Project tags

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectTag`
 - `gitlab.v4.objects.ProjectTagManager`
 - `gitlab.v4.objects.Project.tags`
- v3 API:
 - `gitlab.v3.objects.ProjectTag`
 - `gitlab.v3.objects.ProjectTagManager`
 - `gitlab.v3.objects.Project.tags`
 - `gitlab.Gitlab.project_tags`
- GitLab API: <https://docs.gitlab.com/ce/api/tags.html>

Examples

List the project tags:

```
tags = project.tags.list()
```

Get a tag:

```
tags = project.tags.list('1.0')
```

Create a tag:

```
tag = project.tags.create({'tag_name': '1.0', 'ref': 'master'})
```

Set or update the release note for a tag:

```
tag.set_release_description('awesome v1.0 release')
```

Delete a tag:

```
project.tags.delete('1.0')
# or
tag.delete()
```

Project snippets

The snippet visibility can be defined using the following constants:

- `gitlab.VISIBILITY_PRIVATE`
- `gitlab.VISIBILITY_INTERNAL`
- `gitlab.VISIBILITY_PUBLIC`

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectSnippet`
 - `gitlab.v4.objects.ProjectSnippetManager`
 - `gitlab.v4.objects.Project.files`
- v3 API:
 - `gitlab.v3.objects.ProjectSnippet`
 - `gitlab.v3.objects.ProjectSnippetManager`
 - `gitlab.v3.objects.Project.files`
 - `gitlab.Gitlab.project_files`
- GitLab API: https://docs.gitlab.com/ce/api/project_snippets.html

Examples

List the project snippets:

```
snippets = project.snippets.list()
```

Get a snippet:

```
snippets = project.snippets.list(snippet_id)
```

Get the content of a snippet:

```
print(snippet.content())
```

Warning: The snippet content is entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Create a snippet:

```
snippet = project.snippets.create({'title': 'sample 1',
                                  'file_name': 'foo.py',
                                  'code': 'import gitlab',
                                  'visibility_level':
gitlab.VISIBILITY_PRIVATE})
```

Update a snippet:

```
snippet.code = 'import gitlab\nimport whatever'
snippet.save
```

Delete a snippet:

```
project.snippets.delete(snippet_id)
# or
snippet.delete()
```

Notes

You can manipulate notes (comments) on the issues, merge requests and snippets.

- ProjectIssue with ProjectIssueNote
- ProjectMergeRequest with ProjectMergeRequestNote
- ProjectSnippet with ProjectSnippetNote

Reference

- v4 API:

Issues:

- *gitlab.v4.objects.ProjectIssueNote*
- *gitlab.v4.objects.ProjectIssueNoteManager*
- *gitlab.v4.objects.ProjectIssue.notes*

MergeRequests:

- *gitlab.v4.objects.ProjectMergeRequestNote*
- *gitlab.v4.objects.ProjectMergeRequestNoteManager*
- *gitlab.v4.objects.ProjectMergeRequest.notes*

Snippets:

- *gitlab.v4.objects.ProjectSnippetNote*
- *gitlab.v4.objects.ProjectSnippetNoteManager*
- *gitlab.v4.objects.ProjectSnippet.notes*

- v3 API:

Issues:

- *gitlab.v3.objects.ProjectIssueNote*
- *gitlab.v3.objects.ProjectIssueNoteManager*

- `gitlab.v3.objects.ProjectIssue.notes`
- `gitlab.v3.objects.Project.issue_notes`
- `gitlab.Gitlab.project_issue_notes`

MergeRequests:

- `gitlab.v3.objects.ProjectMergeRequestNote`
- `gitlab.v3.objects.ProjectMergeRequestNoteManager`
- `gitlab.v3.objects.ProjectMergeRequest.notes`
- `gitlab.v3.objects.Project.mergerequest_notes`
- `gitlab.Gitlab.project_mergerequest_notes`

Snippets:

- `gitlab.v3.objects.ProjectSnippetNote`
- `gitlab.v3.objects.ProjectSnippetNoteManager`
- `gitlab.v3.objects.ProjectSnippet.notes`
- `gitlab.v3.objects.Project.snippet_notes`
- `gitlab.Gitlab.project_snippet_notes`

- GitLab API: https://docs.gitlab.com/ce/api/repository_files.html

Examples

List the notes for a resource:

```
i_notes = issue.notes.list()
mr_notes = mr.notes.list()
s_notes = snippet.notes.list()
```

Get a note for a resource:

```
i_note = issue.notes.get(note_id)
mr_note = mr.notes.get(note_id)
s_note = snippet.notes.get(note_id)
```

Create a note for a resource:

```
i_note = issue.notes.create({'body': 'note content'})
mr_note = mr.notes.create({'body': 'note content'})
s_note = snippet.notes.create({'body': 'note content'})
```

Update a note for a resource:

```
note.body = 'updated note content'
note.save()
```

Delete a note for a resource:

```
note.delete()
```

Project events

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectEvent`
 - `gitlab.v4.objects.ProjectEventManager`
 - `gitlab.v4.objects.Project.events`
- v3 API:
 - `gitlab.v3.objects.ProjectEvent`
 - `gitlab.v3.objects.ProjectEventManager`
 - `gitlab.v3.objects.Project.events`
 - `gitlab.Gitlab.project_events`
- GitLab API: https://docs.gitlab.com/ce/api/repository_files.html

Examples

List the project events:

```
gl.project_events.list(project_id=1)
# or
project.events.list()
```

Project members

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectMember`
 - `gitlab.v4.objects.ProjectMemberManager`
 - `gitlab.v4.objects.Project.members`
- v3 API:
 - `gitlab.v3.objects.ProjectMember`
 - `gitlab.v3.objects.ProjectMemberManager`
 - `gitlab.v3.objects.Project.members`
 - `gitlab.Gitlab.project_members`
- GitLab API: <https://docs.gitlab.com/ce/api/members.html>

Examples

List the project members:

```
members = project.members.list()
```

Search project members matching a query string:

```
members = project.members.list(query='bar')
```

Get a single project member:

```
member = project.members.get(1)
```

Add a project member:

```
member = project.members.create({'user_id': user.id, 'access_level':  
                                gitlab.DEVELOPER_ACCESS})
```

Modify a project member (change the access level):

```
member.access_level = gitlab.MASTER_ACCESS  
member.save()
```

Remove a member from the project team:

```
project.members.delete(user.id)  
# or  
member.delete()
```

Share the project with a group:

```
project.share(group.id, gitlab.DEVELOPER_ACCESS)
```

Project hooks

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectHook`
 - `gitlab.v4.objects.ProjectHookManager`
 - `gitlab.v4.objects.Project.hooks`
- v3 API:
 - `gitlab.v3.objects.ProjectHook`
 - `gitlab.v3.objects.ProjectHookManager`
 - `gitlab.v3.objects.Project.hooks`
 - `gitlab.Gitlab.project_hooks`
- GitLab API: <https://docs.gitlab.com/ce/api/projects.html#hooks>

Examples

List the project hooks:

```
hooks = project.hooks.list()
```

Get a project hook:

```
hook = project.hooks.get(1)
```

Create a project hook:

```
hook = gl.project_hooks.create({'url': 'http://my/action/url',
                                'push_events': 1},
                                project_id=1)
# or
hook = project.hooks.create({'url': 'http://my/action/url', 'push_events': 1})
```

Update a project hook:

```
hook.push_events = 0
hook.save()
```

Delete a project hook:

```
project.hooks.delete(1)
# or
hook.delete()
```

Project pipelines

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectPipeline`
 - `gitlab.v4.objects.ProjectPipelineManager`
 - `gitlab.v4.objects.Project.pipelines`
- v3 API:
 - `gitlab.v3.objects.ProjectPipeline`
 - `gitlab.v3.objects.ProjectPipelineManager`
 - `gitlab.v3.objects.Project.pipelines`
 - `gitlab.Gitlab.project_pipelines`
- GitLab API: <https://docs.gitlab.com/ce/api/pipelines.html>

Examples

List pipelines for a project:

```
pipelines = project.pipelines.list()
```

Get a pipeline for a project:

```
pipeline = project.pipelines.get(pipeline_id)
```

Retry the failed builds for a pipeline:

```
pipeline.retry()
```

Cancel builds in a pipeline:

```
pipeline.cancel()
```

Create a pipeline for a particular reference:

```
pipeline = project.pipelines.create({'ref': 'master'})
```

Project Services

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectService`
 - `gitlab.v4.objects.ProjectServiceManager`
 - `gitlab.v4.objects.Project.services`
- v3 API:
 - `gitlab.v3.objects.ProjectService`
 - `gitlab.v3.objects.ProjectServiceManager`
 - `gitlab.v3.objects.Project.services`
 - `gitlab.Gitlab.project_services`
- GitLab API: <https://docs.gitlab.com/ce/api/services.html>

Examples

Get a service:

```
service = project.services.get(service_name='asana', project_id=1)
# display it's status (enabled/disabled)
print(service.active)
```

List the code names of available services (doesn't return objects):

```
services = gl.project_services.available()
```

Configure and enable a service:

```
service.api_key = 'randomkey'
service.save()
```


Disable a service:

```
service.delete()
```

Issue boards

Boards are a visual representation of existing issues for a project. Issues can be moved from one list to the other to track progress and help with priorities.

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectBoard*
 - *gitlab.v4.objects.ProjectBoardManager*
 - `gitlab.v4.objects.Project.boards`
- v3 API:
 - *gitlab.v3.objects.ProjectBoard*
 - *gitlab.v3.objects.ProjectBoardManager*
 - *gitlab.v3.objects.Project.boards*
 - *gitlab.Gitlab.project_boards*
- GitLab API: <https://docs.gitlab.com/ce/api/boards.html>

Examples

Get the list of existing boards for a project:

```
boards = project.boards.list()
```

Get a single board for a project:

```
board = project.boards.get(board_id)
```

Board lists

Reference

- v4 API:
 - *gitlab.v4.objects.ProjectBoardList*
 - *gitlab.v4.objects.ProjectBoardListManager*
 - `gitlab.v4.objects.Project.board_lists`
- v3 API:
 - *gitlab.v3.objects.ProjectBoardList*
 - *gitlab.v3.objects.ProjectBoardListManager*

- `gitlab.v3.objects.ProjectBoard.lists`
- `gitlab.v3.objects.Project.board_lists`
- `gitlab.Gitlab.project_board_lists`

- GitLab API: <https://docs.gitlab.com/ce/api/boards.html>

Examples

List the issue lists for a board:

```
b_lists = board.lists.list()
```

Get a single list:

```
b_list = board.lists.get(list_id)
```

Create a new list:

```
# First get a ProjectLabel
label = get_or_create_label()
# Then use its ID to create the new board list
b_list = board.lists.create({'label_id': label.id})
```

Change a list position. The first list is at position 0. Moving a list will set it at the given position and move the following lists up a position:

```
b_list.position = 2
b_list.save()
```

Delete a list:

```
b_list.delete()
```

Runners

Runners are external processes used to run CI jobs. They are deployed by the administrator and registered to the GitLab instance.

Shared runners are available for all projects. Specific runners are enabled for a list of projects.

Global runners (admin)

Reference

- v4 API:
 - `gitlab.v4.objects.Runner`
 - `gitlab.v4.objects.RunnerManager`
 - `gitlab.Gitlab.runners`
- v3 API:

- `gitlab.v3.objects.Runner`
- `gitlab.v3.objects.RunnerManager`
- `gitlab.Gitlab.runners`

- GitLab API: <https://docs.gitlab.com/ce/api/runners.html>

Examples

Use the `list()` and `all()` methods to list runners.

Both methods accept a `scope` parameter to filter the list. Allowed values for this parameter are:

- `active`
- `paused`
- `online`
- `specific(all() only)`
- `shared(all() only)`

Note: The returned objects hold minimal information about the runners. Use the `get()` method to retrieve detail about a runner.

```
# List owned runners
runners = gl.runners.list()
# With a filter
runners = gl.runners.list(scope='active')
# List all runners, using a filter
runners = gl.runners.all(scope='paused')
```

Get a runner's detail:

```
runner = gl.runners.get(runner_id)
```

Update a runner:

```
runner = gl.runners.get(runner_id)
runner.tag_list.append('new_tag')
runner.save()
```

Remove a runner:

```
gl.runners.delete(runner_id)
# or
runner.delete()
```

Project runners

Reference

- v4 API:
 - `gitlab.v4.objects.ProjectRunner`

- `gitlab.v4.objects.ProjectRunnerManager`
- `gitlab.v4.objects.Project.runners`
- v3 API:
 - `gitlab.v3.objects.ProjectRunner`
 - `gitlab.v3.objects.ProjectRunnerManager`
 - `gitlab.v3.objects.Project.runners`
 - `gitlab.Gitlab.project_runners`
- GitLab API: <https://docs.gitlab.com/ce/api/runners.html>

Examples

List the runners for a project:

```
runners = project.runners.list()
```

Enable a specific runner for a project:

```
p_runner = project.runners.create({'runner_id': runner.id})
```

Disable a specific runner for a project:

```
project.runners.delete(runner.id)
```

Settings

Reference

- v4 API:
 - `gitlab.v4.objects.ApplicationSettings`
 - `gitlab.v4.objects.ApplicationSettingsManager`
 - `gitlab.Gitlab.settings`
- v3 API:
 - `gitlab.v3.objects.ApplicationSettings`
 - `gitlab.v3.objects.ApplicationSettingsManager`
 - `gitlab.Gitlab.settings`
- GitLab API: <https://docs.gitlab.com/ce/api/commits.html>

Examples

Get the settings:

```
settings = gl.settings.get()
```

Update the settings:

```
s.signin_enabled = False
s.save()
```

Snippets

You can store code snippets in Gitlab. Snippets can be attached to projects (see *Project snippets*), but can also be detached.

- Object class: `gitlab.objects.Namespace`
- Manager object: `gitlab.Gitlab.snippets`

Examples

List snippets woned by the current user:

```
snippets = gl.snippets.list()
```

List the public snippets:

```
public_snippets = gl.snippets.public()
```

Get a snippet:

```
snippet = gl.snippets.get(snippet_id)
# get the content
content = snippet.raw()
```

Warning: Blobs are entirely stored in memory unless you use the streaming feature. See *the artifacts example*.

Create a snippet:

```
snippet = gl.snippets.create({'title': 'snippet1',
                             'file_name': 'snippet1.py',
                             'content': open('snippet1.py').read()})
```

Update a snippet:

```
snippet.visibility_level = gitlab.Project.VISIBILITY_PUBLIC
snippet.save()
```

Delete a snippet:

```
gl.snippets.delete(snippet_id)
# or
snippet.delete()
```

System hooks

Reference

- v4 API:
 - `gitlab.v4.objects.Hook`
 - `gitlab.v4.objects.HookManager`
 - `gitlab.Gitlab.hooks`
- v3 API:
 - `gitlab.v3.objects.Hook`
 - `gitlab.v3.objects.HookManager`
 - `gitlab.Gitlab.hooks`
- GitLab API: https://docs.gitlab.com/ce/api/system_hooks.html

Examples

List the system hooks:

```
hooks = gl.hooks.list()
```

Create a system hook:

```
hook = gl.hooks.create({'url': 'http://your.target.url'})
```

Test a system hook. The returned object is not usable (it misses the hook ID):

```
gl.hooks.get(hook_id)
```

Delete a system hook:

```
gl.hooks.delete(hook_id)
# or
hook.delete()
```

Templates

You can request templates for different type of files:

- License files
- `.gitignore` files
- GitLab CI configuration files
- Dockerfiles

License templates

Reference

- v4 API:
 - `gitlab.v4.objects.License`
 - `gitlab.v4.objects.LicenseManager`
 - `gitlab.Gitlab.licenses`
- v3 API:
 - `gitlab.v3.objects.License`
 - `gitlab.v3.objects.LicenseManager`
 - `gitlab.Gitlab.licenses`
- GitLab API: <https://docs.gitlab.com/ce/api/templates/licenses.html>

Examples

List known license templates:

```
licenses = gl.licenses.list()
```

Generate a license content for a project:

```
license = gl.licenses.get('apache-2.0', project='foobar', fullname='John Doe')
print(license.content)
```

.gitignore templates

Reference

- v4 API:
 - `gitlab.v4.objects.Gitignore`
 - `gitlab.v4.objects.GitignoreManager`
 - `gitlab.Gitlab.gitignores`
- v3 API:
 - `gitlab.v3.objects.Gitignore`
 - `gitlab.v3.objects.GitignoreManager`
 - `gitlab.Gitlab.gitignores`
- GitLab API: <https://docs.gitlab.com/ce/api/templates/gitignores.html>

Examples

List known gitignore templates:

```
gitignores = gl.gitignores.list()
```

Get a gitignore template:

```
gitignore = gl.gitignores.get('Python')
print(gitignore.content)
```

GitLab CI templates

Reference

- v4 API:
 - *gitlab.v4.objects.Gitlabciyaml*
 - *gitlab.v4.objects.GitlabciyamlManager*
 - *gitlab.Gitlab.gitlabciyaml*
- v3 API:
 - *gitlab.v3.objects.Gitlabciyaml*
 - *gitlab.v3.objects.GitlabciyamlManager*
 - *gitlab.Gitlab.gitlabciyaml*
- GitLab API: https://docs.gitlab.com/ce/api/templates/gitlab_ci_ymls.html

Examples

List known GitLab CI templates:

```
gitlabciyaml = gl.gitlabciyaml.list()
```

Get a GitLab CI template:

```
gitlabciyaml = gl.gitlabciyaml.get('Pelican')
print(gitlabciyaml.content)
```

Dockerfile templates

Reference

- v4 API:
 - *gitlab.v4.objects.Dockerfile*
 - *gitlab.v4.objects.DockerfileManager*
 - *gitlab.Gitlab.gitlabciyaml*
- GitLab API: Not documented.

Examples

List known Dockerfile templates:

```
dockerfiles = gl.dockerfiles.list()
```

Get a Dockerfile template:

```
dockerfile = gl.dockerfiles.get('Python')
print(dockerfile.content)
```

Todos

Use Todo objects to manipulate todos. The `gitlab.Gitlab.todos` manager object provides helper functions.

Examples

List active todos:

```
todos = gl.todos.list()
```

You can filter the list using the following parameters:

- `action`: can be assigned, mentioned, build_failed, marked, or approval_required
- `author_id`
- `project_id`
- `state`: can be pending or done
- `type`: can be Issue or MergeRequest

For example:

```
todos = gl.todos.list(project_id=1)
todos = gl.todos.list(state='done', type='Issue')
```

Get a single todo:

```
todo = gl.todos.get(todo_id)
```

Mark a todo as done:

```
gl.todos.delete(todo_id)
# or
todo.delete()
```

Mark all the todos as done:

```
nb_of_closed_todos = gl.todos.delete_all()
```

Users

Use `User` objects to manipulate repository branches.

To create `User` objects use the `gitlab.Gitlab.users` manager.

Examples

Get the list of users:

```
users = gl.users.list()
```

Search users whose username match the given string:

```
users = gl.users.list(search='oo')
```

Get a single user:

```
# by ID
user = gl.users.get(2)
# by username
user = gl.users.list(username='root')[0]
```

Create a user:

```
user = gl.users.create({'email': 'john@doe.com',
                       'password': 's3cur3s3cr3T',
                       'username': 'jdoe',
                       'name': 'John Doe'})
```

Update a user:

```
user.name = 'Real Name'
user.save()
```

Delete a user:

```
gl.users.delete(2)
user.delete()
```

Block/Unblock a user:

```
user.block()
user.unblock()
```

SSH keys

Use the `UserKey` objects to manage user keys.

To create `UserKey` objects use the `User.keys` or `gitlab.Gitlab.user_keys` managers.

Exemples

List SSH keys for a user:

```
keys = gl.user_keys.list(user_id=1)
# or
keys = user.keys.list()
```

Get an SSH key for a user:

```
key = gl.user_keys.list(1, user_id=1)
# or
key = user.keys.get(1)
```

Create an SSH key for a user:

```
k = gl.user_keys.create({'title': 'my_key',
                        'key': open('/home/me/.ssh/id_rsa.pub').read()},
                        user_id=2)
# or
k = user.keys.create({'title': 'my_key',
                     'key': open('/home/me/.ssh/id_rsa.pub').read()})
```

Delete an SSH key for a user:

```
gl.user_keys.delete(1, user_id=1)
# or
user.keys.delete(1)
# or
key.delete()
```

Emails

Use the `UserEmail` objects to manage user emails.

To create `UserEmail` objects use the `User.emails` or `gitlab.Gitlab.user_emails` managers.

Examples

List emails for a user:

```
emails = gl.user_emails.list(user_id=1)
# or
emails = user.emails.list()
```

Get an email for a user:

```
email = gl.user_emails.list(1, user_id=1)
# or
email = user.emails.get(1)
```

Create an email for a user:

```
k = gl.user_emails.create({'email': 'foo@bar.com'}, user_id=2)
# or
k = user.emails.create({'email': 'foo@bar.com'})
```

Delete an email for a user:

```
gl.user_emails.delete(1, user_id=1)
# or
user.emails.delete(1)
# or
email.delete()
```

Current User

Use the `CurrentUser` object to get information about the currently logged-in user.

Use the `CurrentUserKey` objects to manage user keys.

To create `CurrentUserKey` objects use the `gitlab.objects.CurrentUser.keys` manager.

Use the `CurrentUserEmail` objects to manage user emails.

To create `CurrentUserEmail` objects use the `gitlab.objects.CurrentUser.emails` manager.

Examples

Get the current user:

```
gl.auth()
current_user = gl.user
```

List the current user SSH keys:

```
keys = gl.user.keys.list()
```

Get a key for the current user:

```
key = gl.user.keys.get(1)
```

Create a key for the current user:

```
key = gl.user.keys.create({'id': 'my_key', 'key': key_content})
```

Delete a key for the current user:

```
gl.user.keys.delete(1)
# or
key.delete()
```

List the current user emails:

```
emails = gl.user.emails.list()
```

Get an email for the current user:

```
email = gl.user.emails.get(1)
```

Create an email for the current user:

```
email = gl.user.emails.create({'email': 'foo@bar.com'})
```

Delete an email for the current user:

```
gl.user.emails.delete(1)
# or
email.delete()
```

Sidekiq metrics

Reference

- v4 API:
 - *gitlab.v4.objects.SidekiqManager*
 - `gitlab.Gitlab.sidekiq`
- v3 API:
 - *gitlab.v3.objects.SidekiqManager*
 - `gitlab.Gitlab.sidekiq`
- GitLab API: https://docs.gitlab.com/ce/api/sidekiq_metrics.html

Examples

```
gl.sidekiq.queue_metrics()
gl.sidekiq.process_metrics()
gl.sidekiq.job_stats()
gl.sidekiq.compound_metrics()
```


Subpackages

gitlab.v3 package

Submodules

gitlab.v3.objects module

class `gitlab.v3.objects.ApplicationSettings` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- `after_sign_out_path` (optional)
- `container_registry_token_expire_delay` (optional)
- `default_branch_protection` (optional)
- `default_project_visibility` (optional)
- `default_projects_limit` (optional)
- `default_snippet_visibility` (optional)
- `domain_blacklist` (optional)
- `domain_blacklist_enabled` (optional)
- `domain_whitelist` (optional)
- `enabled_git_access_protocol` (optional)
- `gravatar_enabled` (optional)
- `home_page_url` (optional)

- max_attachment_size (optional)
- repository_storage (optional)
- restricted_signup_domains (optional)
- restricted_visibility_levels (optional)
- session_expire_delay (optional)
- sign_in_text (optional)
- signin_enabled (optional)
- signup_enabled (optional)
- twitter_sharing_enabled (optional)
- user_oauth_applications (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

canCreate = False

canDelete = False

canList = False

getRequiresId = False

optionalUpdateAttrs = ['after_sign_out_path', 'container_registry_token_expire_delay', 'default_branch_protection']

class gitlab.v3.objects.**ApplicationSettingsManager** (*gl, parent=None, args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ApplicationSettings'> objects.

<class 'gitlab.v3.objects.ApplicationSettings'> objects can be updated.

get (***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ApplicationSettings'>.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ApplicationSettings*

class gitlab.v3.objects.**BroadcastMessage** (*gl, data=None, **kwargs*)

Bases: *gitlab.base.GitlabObject*

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- message (optional)
- starts_at (optional)
- ends_at (optional)
- color (optional)
- font (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)


```

optionalCreateAttrs = ['starts_at', 'ends_at', 'color', 'font']
optionalUpdateAttrs = ['message', 'starts_at', 'ends_at', 'color', 'font']
requiredCreateAttrs = ['message']
requiredUpdateAttrs = []

```

```

class gitlab.v3.objects.BroadcastMessageManager (gl, parent=None, args=[])
Bases: gitlab.base.BaseManager

```

Manager for <class 'gitlab.v3.objects.BroadcastMessage'> objects.

<class 'gitlab.v3.objects.BroadcastMessage'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.BroadcastMessage'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.BroadcastMessage'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.BroadcastMessage'>.

data is a dict defining the object attributes. Available attributes are:

- *message* (required)
- *starts_at* (optional)
- *ends_at* (optional)
- *color* (optional)
- *font* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *BroadcastMessage*

```

class gitlab.v3.objects.CurrentUser (gl, data=None, **kwargs)

```

```

Bases: gitlab.base.GitlabObject

```

```

canCreate = False

```

canDelete = False

canList = False

canUpdate = False

managers = (('emails', 'CurrentUserEmailManager', [('user_id', 'id')]), ('keys', 'CurrentUserKeyManager', [('user_id',

shortPrintAttr = 'username')

class gitlab.v3.objects.**CurrentUserEmail** (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canUpdate = False

requiredCreateAttrs = ['email']

shortPrintAttr = 'email'

class gitlab.v3.objects.**CurrentUserEmailManager** (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.CurrentUserEmail'> objects.

<class 'gitlab.v3.objects.CurrentUserEmail'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.CurrentUserEmail'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.CurrentUserEmail'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.CurrentUserEmail'>.

data is a dict defining the object attributes. Available attributes are:

- *email* (required)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *CurrentUserEmail*

class gitlab.v3.objects.**CurrentUserKey** (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canUpdate = False

requiredCreateAttrs = ['title', 'key']

shortPrintAttr = 'title'

class `gitlab.v3.objects.CurrentUserKeyManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.CurrentUserKey'> objects.

<class 'gitlab.v3.objects.CurrentUserKey'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.CurrentUserKey'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.CurrentUserKey'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.CurrentUserKey'>.

data is a dict defining the object attributes. Available attributes are:

- *title* (required)
- *key* (required)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `CurrentUserKey`

class `gitlab.v3.objects.DeployKey` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

canCreate = False

canDelete = False

canGet = 'from_list'

canUpdate = False

class `gitlab.v3.objects.DeployKeyManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.DeployKey'> objects.

<class 'gitlab.v3.objects.DeployKey'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.DeployKey'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.DeployKey'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `DeployKey`

class `gitlab.v3.objects.Gitignore` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

canCreate = `False`

canDelete = `False`

canUpdate = `False`

idAttr = `'name'`

class `gitlab.v3.objects.GitignoreManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.Gitignore'> objects.

<class 'gitlab.v3.objects.Gitignore'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.Gitignore'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.Gitignore'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls
alias of *Gitignore*

class `gitlab.v3.objects.Gitlabciyaml` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canCreate = False

canDelete = False

canUpdate = False

idAttr = 'name'

class `gitlab.v3.objects.GitlabciyamlManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.Gitlabciyaml'> objects.

<class 'gitlab.v3.objects.Gitlabciyaml'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.Gitlabciyaml'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.Gitlabciyaml'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls
alias of *Gitlabciyaml*

class `gitlab.v3.objects.Group` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

accessrequests

GroupAccessRequestManager - Manager for objects.

members

GroupMemberManager - Manager for objects.

notificationsettings

GroupNotificationSettingsManager - Manager for objects.

projects

GroupProjectManager - Manager for objects.

issues

GroupIssueManager - Manager for objects.

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- *name* (optional)

- `path` (optional)
- `description` (optional)
- `visibility_level` (optional)
- `lfs_enabled` (optional)
- `request_access_enabled` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

DEVELOPER_ACCESS = 30

GUEST_ACCESS = 10

MASTER_ACCESS = 40

OWNER_ACCESS = 50

REPORTER_ACCESS = 20

VISIBILITY_INTERNAL = 10

VISIBILITY_PRIVATE = 0

VISIBILITY_PUBLIC = 20

managers = (('accessrequests', 'GroupAccessRequestManager', [('group_id', 'id']), ('members', 'GroupMemberManag

optionalCreateAttrs = ['description', 'visibility_level', 'parent_id', 'lfs_enabled', 'request_access_enabled']

optionalUpdateAttrs = ['name', 'path', 'description', 'visibility_level', 'lfs_enabled', 'request_access_enabled']

requiredCreateAttrs = ['name', 'path']

shortPrintAttr = 'name'

transfer_project (*id*, ***kwargs*)

Transfers a project to this new groups.

Parameters **id** (*int*) – ID of the project to transfer.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabTransferProjectError` – If the server fails to perform the request.

class `gitlab.v3.objects.GroupAccessRequest` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

approve (*access_level=30*, ***kwargs*)

Approve an access request.

Parameters **access_level** (*int*) – The access level for the user.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabUpdateError` – If the server fails to perform the request.

canGet = 'from_list'

canUpdate = False

```

class gitlab.v3.objects.GroupAccessRequestManager (gl, parent=None, args=[])
    Bases: gitlab.base.BaseManager

    Manager for <class 'gitlab.v3.objects.GroupAccessRequest'> objects.

    <class 'gitlab.v3.objects.GroupAccessRequest'> objects cannot be updated.

    list (**kwargs)
        Returns a list of objects of type <class 'gitlab.v3.objects.GroupAccessRequest'>.

        Available keys for kwargs are:

            •per_page (int): number of item per page. May be limited by the server.
            •page (int): page to retrieve
            •all (bool): iterate over all the pages and return all the entries
            •sudo (string or int): run the request as another user (requires admin permissions)

    get (id, **kwargs)
        Get a single object of type <class 'gitlab.v3.objects.GroupAccessRequest'> using its id.

        Available keys for kwargs are:

            •sudo (string or int): run the request as another user (requires admin permissions)

    create (data, **kwargs)
        Create an object of type <class 'gitlab.v3.objects.GroupAccessRequest'>.

        data is a dict defining the object attributes. Available attributes are:

        Available keys for kwargs are:

            •sudo (string or int): run the request as another user (requires admin permissions)

    delete (id, **kwargs)
        Delete the object with ID id.

        Available keys for kwargs are:

            •sudo (string or int): run the request as another user (requires admin permissions)

    obj_cls
        alias of GroupAccessRequest

class gitlab.v3.objects.GroupIssue (gl, data=None, **kwargs)
    Bases: gitlab.base.GitlabObject

    canCreate = False
    canDelete = False
    canGet = 'from_list'
    canUpdate = False
    optionalListAttrs = ['state', 'labels', 'milestone', 'order_by', 'sort']
    requiredUrlAttrs = ['group_id']

class gitlab.v3.objects.GroupIssueManager (gl, parent=None, args=[])
    Bases: gitlab.base.BaseManager

    Manager for <class 'gitlab.v3.objects.GroupIssue'> objects.

    <class 'gitlab.v3.objects.GroupIssue'> objects cannot be updated.

```

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.GroupIssue'>.

Available keys for kwargs are:

- state (optional)
- labels (optional)
- milestone (optional)
- order_by (optional)
- sort (optional)
- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (id, **kwargs)

Get a single object of type <class 'gitlab.v3.objects.GroupIssue'> using its id.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *GroupIssue*

class gitlab.v3.objects.**GroupManager** (gl, parent=None, args=[])

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.Group'> objects.

<class 'gitlab.v3.objects.Group'> objects can be updated.

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.Group'>.

Available keys for kwargs are:

- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (id, **kwargs)

Get a single object of type <class 'gitlab.v3.objects.Group'> using its id.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

create (data, **kwargs)

Create an object of type <class 'gitlab.v3.objects.Group'>.

data is a dict defining the object attributes. Available attributes are:

- name (required)
- path (required)

- description (optional)
- visibility_level (optional)
- parent_id (optional)
- lfs_enabled (optional)
- request_access_enabled (optional)

Available keys for `kwargs` are:

- sudo (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for `kwargs` are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *Group*

search (*query*, ****kwargs**)

Searches groups by name.

Parameters

- **query** (*str*) – The search string
- **all** (*bool*) – If True, return all the items, without pagination

Returns a list of matching groups.

Return type *list(Group)*

class `gitlab.v3.objects.GroupMember` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- access_level (required)

Available keys for `kwargs` are:

- sudo (string or int): run the request as another user (requires admin permissions)

canGet = 'from_list'

optionalCreateAttrs = ['expires_at']

requiredCreateAttrs = ['access_level', 'user_id']

requiredUpdateAttrs = ['access_level']

requiredUrlAttrs = ['group_id']

shortPrintAttr = 'username'

class `gitlab.v3.objects.GroupMemberManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.GroupMember'> objects.

<class 'gitlab.v3.objects.GroupMember'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.GroupMember'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.GroupMember'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.GroupMember'>.

data is a dict defining the object attributes. Available attributes are:

- *group_id* (required if not discovered on the parent objects)
- *access_level* (required)
- *user_id* (required)
- *expires_at* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *GroupMember*

class `gitlab.v3.objects.GroupNotificationSettings` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.v3.objects.NotificationSettings*

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- *level* (optional)
- *notification_email* (optional)
- *new_note* (optional)
- *new_issue* (optional)
- *reopen_issue* (optional)
- *close_issue* (optional)
- *reassign_issue* (optional)
- *new_merge_request* (optional)

- reopen_merge_request (optional)
- close_merge_request (optional)
- reassign_merge_request (optional)
- merge_merge_request (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

requiredUrlAttrs = ['group_id']

class `gitlab.v3.objects.GroupNotificationSettingsManager` (*gl*, *parent=None*, *args=[]*)
 Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.GroupNotificationSettings'> objects.

<class 'gitlab.v3.objects.GroupNotificationSettings'> objects can be updated.

get (***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.GroupNotificationSettings'>.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `GroupNotificationSettings`

class `gitlab.v3.objects.GroupProject` (**args*, ***kwargs*)
 Bases: `gitlab.v3.objects.Project`

canCreate = False

canDelete = False

canGet = 'from_list'

canUpdate = False

optionalListAttrs = ['archived', 'visibility', 'order_by', 'sort', 'search', 'ci_enabled_first']

class `gitlab.v3.objects.GroupProjectManager` (*gl*, *parent=None*, *args=[]*)
 Bases: `gitlab.v3.objects.ProjectManager`

Manager for <class 'gitlab.v3.objects.GroupProject'> objects.

<class 'gitlab.v3.objects.GroupProject'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.GroupProject'>.

Available keys for kwargs are:

- archived (optional)
- visibility (optional)
- order_by (optional)
- sort (optional)
- search (optional)
- ci_enabled_first (optional)
- per_page (int): number of item per page. May be limited by the server.

- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.GroupProject'> using its *id*.

Available keys for **kwargs** are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *GroupProject*

class gitlab.v3.objects.**Hook** (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

canUpdate = False

requiredCreateAttrs = ['url']

shortPrintAttr = 'url'

class gitlab.v3.objects.**HookManager** (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.Hook'> objects.

<class 'gitlab.v3.objects.Hook'> objects **cannot** be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.Hook'>.

Available keys for **kwargs** are:

- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.Hook'> using its *id*.

Available keys for **kwargs** are:

- sudo (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.Hook'>.

data is a dict defining the object attributes. Available attributes are:

- url (required)

Available keys for **kwargs** are:

- sudo (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls
alias of *Hook*

class `gitlab.v3.objects.Issue` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canCreate = False

canDelete = False

canGet = 'from_list'

canUpdate = False

optionalListAttrs = ['state', 'labels', 'order_by', 'sort']

shortPrintAttr = 'title'

class `gitlab.v3.objects.IssueManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.Issue'> objects.

<class 'gitlab.v3.objects.Issue'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.Issue'>.

Available keys for *kwargs* are:

- *state* (optional)
- *labels* (optional)
- *order_by* (optional)
- *sort* (optional)
- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.Issue'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls
alias of *Issue*

class `gitlab.v3.objects.Key` (**args*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canCreate = False

canDelete = False

canGet = 'from_list'

canUpdate = False

class `gitlab.v3.objects.KeyManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.Key'> objects.

<class 'gitlab.v3.objects.Key'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.Key'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.Key'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `Key`

class `gitlab.v3.objects.License` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

canCreate = False

canDelete = False

canUpdate = False

idAttr = 'key'

optionalGetAttrs = ['project', 'fullname']

optionalListAttrs = ['popular']

class `gitlab.v3.objects.LicenseManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.License'> objects.

<class 'gitlab.v3.objects.License'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.License'>.

Available keys for *kwargs* are:

- *popular* (optional)
- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.License'> using its *id*.

Available keys for **kwargs** are:

- **project** (optional)
- **fullname** (optional)
- **sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *License*

class `gitlab.v3.objects.Namespace` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

canCreate = False

canDelete = False

canGet = 'from_list'

canUpdate = False

optionalListAttrs = ['search']

class `gitlab.v3.objects.NamespaceManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.Namespace'> objects.

<class 'gitlab.v3.objects.Namespace'> objects **cannot** be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.Namespace'>.

Available keys for **kwargs** are:

- **search** (optional)
- **per_page** (int): number of item per page. May be limited by the server.
- **page** (int): page to retrieve
- **all** (bool): iterate over all the pages and return all the entries
- **sudo** (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.Namespace'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *Namespace*

class `gitlab.v3.objects.NotificationSettings` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- **level** (optional)
- **notification_email** (optional)

- new_note (optional)
- new_issue (optional)
- reopen_issue (optional)
- close_issue (optional)
- reassign_issue (optional)
- new_merge_request (optional)
- reopen_merge_request (optional)
- close_merge_request (optional)
- reassign_merge_request (optional)
- merge_merge_request (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

canCreate = False

canDelete = False

canList = False

getRequiresId = False

optionalUpdateAttrs = ['level', 'notification_email', 'new_note', 'new_issue', 'reopen_issue', 'close_issue', 'reassign

class gitlab.v3.objects.**NotificationSettingsManager** (*gl, parent=None, args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.NotificationSettings'> objects.

<class 'gitlab.v3.objects.NotificationSettings'> objects can be updated.

get (***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.NotificationSettings'>.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *NotificationSettings*

class gitlab.v3.objects.**Project** (*gl, data=None, **kwargs*)

Bases: *gitlab.base.GitlabObject*

accessrequests

ProjectAccessRequestManager - Manager for objects.

boards

ProjectBoardManager - Manager for objects.

board_lists

ProjectBoardListManager - Manager for objects.

branches

ProjectBranchManager - Manager for objects.

builds

ProjectBuildManager - Manager for objects.

commits

ProjectCommitManager - Manager for objects.

deployments

ProjectDeploymentManager - Manager for objects.

environments

ProjectEnvironmentManager - Manager for objects.

events

ProjectEventManager - Manager for objects.

files

ProjectFileManager - Manager for objects.

forks

ProjectForkManager - Manager for objects.

hooks

ProjectHookManager - Manager for objects.

keys

ProjectKeyManager - Manager for objects.

issues

ProjectIssueManager - Manager for objects.

labels

ProjectLabelManager - Manager for objects.

members

ProjectMemberManager - Manager for objects.

mergerequests

ProjectMergeRequestManager - Manager for objects.

milestones

ProjectMilestoneManager - Manager for objects.

notes

ProjectNoteManager - Manager for objects.

notificationsettings

ProjectNotificationSettingsManager - Manager for objects.

pipelines

ProjectPipelineManager - Manager for objects.

runners

ProjectRunnerManager - Manager for objects.

services

ProjectServiceManager - Manager for objects.

snippets

ProjectSnippetManager - Manager for objects.

tags

ProjectTagManager - Manager for objects.

triggers

ProjectTriggerManager - Manager for objects.

variables

ProjectVariableManager - Manager for objects.

save (**kwargs)

Send the modified object to the GitLab server. The following attributes are sent:

- name (optional)
- path (optional)
- default_branch (optional)
- description (optional)
- issues_enabled (optional)
- merge_requests_enabled (optional)
- builds_enabled (optional)
- wiki_enabled (optional)
- snippets_enabled (optional)
- container_registry_enabled (optional)
- shared_runners_enabled (optional)
- public (optional)
- visibility_level (optional)
- import_url (optional)
- public_builds (optional)
- only_allow_merge_if_build_succeeds (optional)
- only_allow_merge_if_all_discussions_are_resolved (optional)
- lfs_enabled (optional)
- request_access_enabled (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

VISIBILITY_INTERNAL = 10

VISIBILITY_PRIVATE = 0

VISIBILITY_PUBLIC = 20

archive (**kwargs)

Archive a project.

Returns the updated Project

Return type *Project*

Raises

- GitlabCreateError – If the action cannot be done
- GitlabConnectionError – If the server cannot be reached.

archive_ (**kwargs)

create_fork_relation (*forked_from_id*)

Create a forked from/to relation between existing projects.

Parameters **forked_from_id** (*int*) – The ID of the project that was forked from

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabCreateError` – If the server fails to perform the request.

delete_fork_relation ()

Delete a forked relation between existing projects.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabDeleteError` – If the server fails to perform the request.

managers = (('accessrequests', 'ProjectAccessRequestManager', [('project_id', 'id'])), ('boards', 'ProjectBoardManager'

optionalCreateAttrs = ['path', 'namespace_id', 'description', 'issues_enabled', 'merge_requests_enabled', 'builds'

optionalListAttrs = ['search']

optionalUpdateAttrs = ['name', 'path', 'default_branch', 'description', 'issues_enabled', 'merge_requests_enabled'

repository_archive (*sha=None, streamed=False, action=None, chunk_size=1024, **kwargs*)

Return a tarball of the repository.

Parameters

- **sha** (*str*) – ID of the commit (default branch by default).
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The binary data of the archive.

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

repository_blob (*sha, filepath, streamed=False, action=None, chunk_size=1024, **kwargs*)

Return the content of a file for a commit.

Parameters

- **sha** (*str*) – ID of the commit
- **filepath** (*str*) – Path of the file to return
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The file content

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

repository_compare (*from_, to, **kwargs*)

Returns a diff between two branches/commits.

Parameters

- **from** (*str*) – orig branch/SHA
- **to** (*str*) – dest branch/SHA

Returns The diff

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

repository_contributors ()

Returns a list of contributors for the project.

Returns The contributors

Return type list

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

repository_raw_blob (*sha, streamed=False, action=None, chunk_size=1024, **kwargs*)

Returns the raw file contents for a blob by blob SHA.

Parameters

- **sha** (*str*) – ID of the blob
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The blob content

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

repository_tree (*path='', ref_name='', **kwargs*)

Return a list of files in the repository.

Parameters

- **path** (*str*) – Path of the top folder (/ by default)

- **ref_name** (*str*) – Reference to a commit or branch

Returns The json representation of the tree.

Return type *str*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

requiredCreateAttrs = ['name']

share (*group_id*, *group_access*, ***kwargs*)

Share the project with a group.

Parameters

- **group_id** (*int*) – ID of the group.
- **group_access** (*int*) – Access level for the group.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabCreateError` – If the server fails to perform the request.

shortPrintAttr = 'path'

star (***kwargs*)

Star a project.

Returns the updated Project

Return type *Project*

Raises

- `GitlabCreateError` – If the action cannot be done
- `GitlabConnectionError` – If the server cannot be reached.

trigger_build (*ref*, *token*, *variables*={}, ***kwargs*)

Trigger a CI build.

See <https://gitlab.com/help/ci/triggers/README.md#trigger-a-build>

Parameters

- **ref** (*str*) – Commit to build; can be a commit SHA, a branch name, ...
- **token** (*str*) – The trigger token
- **variables** (*dict*) – Variables passed to the build script

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabCreateError` – If the server fails to perform the request.

unarchive (***kwargs*)

Unarchive a project.

Returns the updated Project

Return type *Project*

Raises

- `GitlabDeleteError` – If the action cannot be done
- `GitlabConnectionError` – If the server cannot be reached.

unarchive_ (***kwargs*)**unstar** (***kwargs*)

Unstar a project.

Returns the updated Project**Return type** *Project***Raises**

- `GitlabDeleteError` – If the action cannot be done
- `GitlabConnectionError` – If the server cannot be reached.

class `gitlab.v3.objects.ProjectAccessRequest` (*gl, data=None, **kwargs*)Bases: `gitlab.base.GitlabObject`**approve** (*access_level=30, **kwargs*)

Approve an access request.

Parameters **access_level** (*int*) – The access level for the user.**Raises**

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabUpdateError` – If the server fails to perform the request.

canGet = `'from_list'`**canUpdate** = `False`**class** `gitlab.v3.objects.ProjectAccessRequestManager` (*gl, parent=None, args=[]*)Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectAccessRequest'> objects.

<class 'gitlab.v3.objects.ProjectAccessRequest'> objects **cannot** be updated.**list** (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectAccessRequest'>.

Available keys for *kwargs* are:

- `per_page` (*int*): number of item per page. May be limited by the server.
- `page` (*int*): page to retrieve
- `all` (*bool*): iterate over all the pages and return all the entries
- `sudo` (*string* or *int*): run the request as another user (requires admin permissions)

get (*id, **kwargs*)Get a single object of type <class 'gitlab.v3.objects.ProjectAccessRequest'> using its *id*.Available keys for *kwargs* are:

- `sudo` (*string* or *int*): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectAccessRequest'>.

data is a dict defining the object attributes. Available attributes are:

Available keys for *kwargs* are:

- sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectAccessRequest*

class gitlab.v3.objects.**ProjectBoard** (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canCreate = False

canDelete = False

canGet = 'from_list'

canUpdate = False

managers = (('lists', 'ProjectBoardListManager', [(('project_id', 'project_id'), ('board_id', 'id'))],)

requiredUrlAttrs = ['project_id']

class gitlab.v3.objects.**ProjectBoardList** (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- position* (required)

Available keys for *kwargs* are:

- sudo* (string or int): run the request as another user (requires admin permissions)

requiredCreateAttrs = ['label_id']

requiredUpdateAttrs = ['position']

requiredUrlAttrs = ['project_id', 'board_id']

class gitlab.v3.objects.**ProjectBoardListManager** (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectBoardList'> objects.

<class 'gitlab.v3.objects.ProjectBoardList'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectBoardList'>.

Available keys for *kwargs* are:

- per_page* (int): number of item per page. May be limited by the server.
- page* (int): page to retrieve
- all* (bool): iterate over all the pages and return all the entries

- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type `<class 'gitlab.v3.objects.ProjectBoardList'>` using its *id*.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type `<class 'gitlab.v3.objects.ProjectBoardList'>`.

data is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)
- `board_id` (required if not discovered on the parent objects)
- `label_id` (required)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectBoardList`

class `gitlab.v3.objects.ProjectBoardManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for `<class 'gitlab.v3.objects.ProjectBoard'>` objects.

`<class 'gitlab.v3.objects.ProjectBoard'>` objects **cannot** be updated.

list (****kwargs**)

Returns a list of objects of type `<class 'gitlab.v3.objects.ProjectBoard'>`.

Available keys for `kwargs` are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type `<class 'gitlab.v3.objects.ProjectBoard'>` using its *id*.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectBoard`

class `gitlab.v3.objects.ProjectBranch` (*gl*, *data=None*, ****kwargs**)

Bases: `gitlab.base.GitlabObject`

canUpdate = `False`

idAttr = 'name'

protect (*protect=True, **kwargs*)
Protects the branch.

requiredCreateAttrs = ['branch_name', 'ref']

requiredUrlAttrs = ['project_id']

unprotect (***kwargs*)
Unprotects the branch.

class gitlab.v3.objects.**ProjectBranchManager** (*gl, parent=None, args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectBranch'> objects.

<class 'gitlab.v3.objects.ProjectBranch'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectBranch'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id, **kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectBranch'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data, **kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectBranch'>.

data is a dict defining the object attributes. Available attributes are:

- *project_id* (required if not discovered on the parent objects)
- *branch_name* (required)
- *ref* (required)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id, **kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectBranch*

class gitlab.v3.objects.**ProjectBuild** (*gl, data=None, **kwargs*)

Bases: *gitlab.base.GitlabObject*

artifacts (*streamed=False, action=None, chunk_size=1024, **kwargs*)

Get the build artifacts.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The artifacts if *streamed* is False, None otherwise.

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the artifacts are not available.

canCreate = False

canDelete = False

canUpdate = False

cancel (***kwargs*)

Cancel the build.

erase (***kwargs*)

Erase the build (remove build artifacts and trace).

keep_artifacts (***kwargs*)

Prevent artifacts from being delete when expiration is set.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabCreateError` – If the request failed.

play (***kwargs*)

Trigger a build explicitly.

requiredUrlAttrs = ['project_id']

retry (***kwargs*)

Retry the build.

trace (*streamed=False, action=None, chunk_size=1024, **kwargs*)

Get the build trace.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The trace.

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the trace is not available.

class `gitlab.v3.objects.ProjectBuildManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectBuild'> objects.

<class 'gitlab.v3.objects.ProjectBuild'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectBuild'>.

Available keys for *kwargs* are:

- `per_page` (*int*): number of item per page. May be limited by the server.
- `page` (*int*): page to retrieve
- `all` (*bool*): iterate over all the pages and return all the entries
- `sudo` (*string* or *int*): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectBuild'> using its *id*.

Available keys for *kwargs* are:

- `sudo` (*string* or *int*): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectBuild`

class `gitlab.v3.objects.ProjectCommit` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

blob (*filepath*, *streamed=False*, *action=None*, *chunk_size=1024*, ***kwargs*)

Generate the content of a file for this commit.

Parameters

- **filepath** (*str*) – Path of the file to request.
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The content of the file

Return type `str`

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

builds (***kwargs*)

List the build for this commit.

Returns A list of builds.

Return type `list(ProjectBuild)`

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabListError` – If the server fails to perform the request.

`canDelete = False`

`canUpdate = False`

`cherry_pick` (*branch*, ***kwargs*)

Cherry-pick a commit into a branch.

Parameters `branch` (*str*) – Name of target branch.

Raises `GitlabCherryPickError` – If the cherry pick could not be applied.

`diff` (***kwargs*)

Generate the commit diff.

`managers = (('comments', 'ProjectCommitCommentManager', [(('project_id', 'project_id'), ('commit_id', 'id'))], ('status', 'status')))`

`optionalCreateAttrs = ['author_email', 'author_name']`

`requiredCreateAttrs = ['branch_name', 'commit_message', 'actions']`

`requiredUrlAttrs = ['project_id']`

`shortPrintAttr = 'title'`

`class gitlab.v3.objects.ProjectCommitComment` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

`canDelete = False`

`canGet = False`

`canUpdate = False`

`optionalCreateAttrs = ['path', 'line', 'line_type']`

`requiredCreateAttrs = ['note']`

`requiredUrlAttrs = ['project_id', 'commit_id']`

`class gitlab.v3.objects.ProjectCommitCommentManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectCommitComment'> objects.

<class 'gitlab.v3.objects.ProjectCommitComment'> objects **cannot** be updated.

`list` (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectCommitComment'>.

Available keys for *kwargs* are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

`create` (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectCommitComment'>.

data is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)

- `commit_id` (required if not discovered on the parent objects)
- `note` (required)
- `path` (optional)
- `line` (optional)
- `line_type` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectCommitComment`

class `gitlab.v3.objects.ProjectCommitManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectCommit'> objects.

<class 'gitlab.v3.objects.ProjectCommit'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectCommit'>.

Available keys for `kwargs` are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectCommit'> using its `id`.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectCommit'>.

`data` is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)
- `branch_name` (required)
- `commit_message` (required)
- `actions` (required)
- `author_email` (optional)
- `author_name` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectCommit`

```
class gitlab.v3.objects.ProjectCommitStatus (gl, data=None, **kwargs)
    Bases: gitlab.base.GitlabObject

    canDelete = False
    canUpdate = False
    optionalCreateAttrs = ['description', 'name', 'context', 'ref', 'target_url']
    optionalGetAttrs = ['ref_name', 'stage', 'name', 'all']
    requiredCreateAttrs = ['state']
    requiredUrlAttrs = ['project_id', 'commit_id']
```

class gitlab.v3.objects.**ProjectCommitStatusManager** (gl, parent=None, args=[])
Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectCommitStatus'> objects.
<class 'gitlab.v3.objects.ProjectCommitStatus'> objects **cannot** be updated.

list (**kwargs)
Returns a list of objects of type <class 'gitlab.v3.objects.ProjectCommitStatus'>.
Available keys for kwargs are:

- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (id, **kwargs)
Get a single object of type <class 'gitlab.v3.objects.ProjectCommitStatus'> using its id.
Available keys for kwargs are:

- ref_name (optional)
- stage (optional)
- name (optional)
- all (optional)
- sudo (string or int): run the request as another user (requires admin permissions)

create (data, **kwargs)
Create an object of type <class 'gitlab.v3.objects.ProjectCommitStatus'>.
data is a dict defining the object attributes. Available attributes are:

- project_id (required if not discovered on the parent objects)
- commit_id (required if not discovered on the parent objects)
- state (required)
- description (optional)
- name (optional)
- context (optional)
- ref (optional)
- target_url (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectCommitStatus`

class `gitlab.v3.objects.ProjectDeployment` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

canCreate = False

canDelete = False

canUpdate = False

class `gitlab.v3.objects.ProjectDeploymentManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectDeployment'> objects.

<class 'gitlab.v3.objects.ProjectDeployment'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectDeployment'>.

Available keys for `kwargs` are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectDeployment'> using its `id`.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectDeployment`

class `gitlab.v3.objects.ProjectEnvironment` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- `name` (optional)
- `external_url` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

canGet = 'from_list'

optionalCreateAttrs = ['external_url']

optionalUpdateAttrs = ['name', 'external_url']

requiredCreateAttrs = ['name']

requiredUrlAttrs = ['project_id']

class `gitlab.v3.objects.ProjectEnvironmentManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectEnvironment'> objects.

<class 'gitlab.v3.objects.ProjectEnvironment'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectEnvironment'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectEnvironment'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectEnvironment'>.

data is a dict defining the object attributes. Available attributes are:

- *project_id* (required if not discovered on the parent objects)
- *name* (required)
- *external_url* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectEnvironment`

class `gitlab.v3.objects.ProjectEvent` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

canCreate = `False`

canDelete = `False`

canGet = `'from_list'`

canUpdate = `False`

requiredUrlAttrs = `['project_id']`

shortPrintAttr = `'target_title'`

```

class gitlab.v3.objects.ProjectEventManager (gl, parent=None, args=[])
    Bases: gitlab.base.BaseManager

    Manager for <class 'gitlab.v3.objects.ProjectEvent'> objects.
    <class 'gitlab.v3.objects.ProjectEvent'> objects cannot be updated.

    list (**kwargs)
        Returns a list of objects of type <class 'gitlab.v3.objects.ProjectEvent'>.

        Available keys for kwargs are:

            •per_page (int): number of item per page. May be limited by the server.
            •page (int): page to retrieve
            •all (bool): iterate over all the pages and return all the entries
            •sudo (string or int): run the request as another user (requires admin permissions)

    get (id, **kwargs)
        Get a single object of type <class 'gitlab.v3.objects.ProjectEvent'> using its id.

        Available keys for kwargs are:

            •sudo (string or int): run the request as another user (requires admin permissions)

    obj_cls
        alias of ProjectEvent

class gitlab.v3.objects.ProjectFile (gl, data=None, **kwargs)
    Bases: gitlab.base.GitlabObject

    save (**kwargs)
        Send the modified object to the GitLab server. The following attributes are sent:

            •file_path (required)
            •branch_name (required)
            •content (required)
            •commit_message (required)
            •encoding (optional)

        Available keys for kwargs are:

            •sudo (string or int): run the request as another user (requires admin permissions)

    canList = False

    decode ()
        Returns the decoded content of the file.

            Returns the decoded content.

            Return type (str)

    getRequiresId = False

    optionalCreateAttrs = ['encoding']
    requiredCreateAttrs = ['file_path', 'branch_name', 'content', 'commit_message']
    requiredDeleteAttrs = ['branch_name', 'commit_message', 'file_path']
    requiredGetAttrs = ['file_path', 'ref']

```

```
requiredUrlAttrs = ['project_id']
```

```
shortPrintAttr = 'file_path'
```

```
class gitlab.v3.objects.ProjectFileManager (gl, parent=None, args=[])
```

```
Bases: gitlab.base.BaseManager
```

Manager for <class 'gitlab.v3.objects.ProjectFile'> objects.

<class 'gitlab.v3.objects.ProjectFile'> objects can be updated.

```
get (**kwargs)
```

Get a single object of type <class 'gitlab.v3.objects.ProjectFile'>.

Available keys for kwargs are:

- file_path (required)
- ref (required)
- sudo (string or int): run the request as another user (requires admin permissions)

```
create (data, **kwargs)
```

Create an object of type <class 'gitlab.v3.objects.ProjectFile'>.

data is a dict defining the object attributes. Available attributes are:

- project_id (required if not discovered on the parent objects)
- file_path (required)
- branch_name (required)
- content (required)
- commit_message (required)
- encoding (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

```
delete (id, **kwargs)
```

Delete the object with ID id.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

```
obj_cls
```

```
alias of ProjectFile
```

```
class gitlab.v3.objects.ProjectFork (gl, data=None, **kwargs)
```

```
Bases: gitlab.base.GitlabObject
```

```
canDelete = False
```

```
canGet = False
```

```
canList = False
```

```
canUpdate = False
```

```
optionalCreateAttrs = ['namespace']
```

```
requiredUrlAttrs = ['project_id']
```

class `gitlab.v3.objects.ProjectForkManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectFork'> objects.

<class 'gitlab.v3.objects.ProjectFork'> objects **cannot** be updated.

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectFork'>.

data is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)
- `namespace` (optional)

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectFork`

class `gitlab.v3.objects.ProjectHook` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- `url` (required)
- `push_events` (optional)
- `issues_events` (optional)
- `note_events` (optional)
- `merge_requests_events` (optional)
- `tag_push_events` (optional)
- `build_events` (optional)
- `enable_ssl_verification` (optional)
- `token` (optional)
- `pipeline_events` (optional)

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

optionalCreateAttrs = ['push_events', 'issues_events', 'note_events', 'merge_requests_events', 'tag_push_events', 'pipeline_events']

requiredCreateAttrs = ['url']

requiredUrlAttrs = ['project_id']

shortPrintAttr = 'url'

class `gitlab.v3.objects.ProjectHookManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectHook'> objects.

<class 'gitlab.v3.objects.ProjectHook'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectHook'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectHook'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectHook'>.

data is a dict defining the object attributes. Available attributes are:

- *project_id* (required if not discovered on the parent objects)
- *url* (required)
- *push_events* (optional)
- *issues_events* (optional)
- *note_events* (optional)
- *merge_requests_events* (optional)
- *tag_push_events* (optional)
- *build_events* (optional)
- *enable_ssl_verification* (optional)
- *token* (optional)
- *pipeline_events* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectHook*

class `gitlab.v3.objects.ProjectIssue` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

notes

ProjectIssueNoteManager - Manager for objects.

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- title (optional)
- description (optional)
- assignee_id (optional)
- milestone_id (optional)
- labels (optional)
- created_at (optional)
- updated_at (optional)
- state_event (optional)
- due_date (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

add_spent_time (**kwargs)

Set an estimated time of work for the issue.

Raises GitlabConnectionError – If the server cannot be reached.

managers = (('notes', 'ProjectIssueNoteManager', [(**project_id**, **project_id**), (**issue_id**, **id**)]),)

move (to_project_id, **kwargs)

Move the issue to another project.

Raises GitlabConnectionError – If the server cannot be reached.

optionalCreateAttrs = ['description', 'assignee_id', 'milestone_id', 'labels', 'created_at', 'due_date']

optionalListAttrs = ['state', 'labels', 'milestone', 'iid', 'order_by', 'sort']

optionalUpdateAttrs = ['title', 'description', 'assignee_id', 'milestone_id', 'labels', 'created_at', 'updated_at', 'state']

requiredCreateAttrs = ['title']

requiredUrlAttrs = ['project_id']

reset_spent_time (**kwargs)

Set an estimated time of work for the issue.

Raises GitlabConnectionError – If the server cannot be reached.

reset_time_estimate (**kwargs)

Resets estimated time for the issue to 0 seconds.

Raises GitlabConnectionError – If the server cannot be reached.

shortPrintAttr = 'title'

subscribe (**kwargs)

Subscribe to an issue.

Raises

- GitlabConnectionError – If the server cannot be reached.
- GitlabSubscribeError – If the subscription cannot be done

time_estimate (**kwargs)

Set an estimated time of work for the issue.

Raises GitlabConnectionError – If the server cannot be reached.

time_stats (**kwargs)

Get time stats for the issue.

Raises GitlabConnectionError – If the server cannot be reached.

todo (**kwargs)

Create a todo for the issue.

Raises GitlabConnectionError – If the server cannot be reached.

unsubscribe (**kwargs)

Unsubscribe an issue.

Raises

- GitlabConnectionError – If the server cannot be reached.
- GitlabUnsubscribeError – If the unsubscription cannot be done

class gitlab.v3.objects.**ProjectIssueManager** (gl, parent=None, args=[])

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectIssue'> objects.

<class 'gitlab.v3.objects.ProjectIssue'> objects can be updated.

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectIssue'>.

Available keys for kwargs are:

- state (optional)
- labels (optional)
- milestone (optional)
- iid (optional)
- order_by (optional)
- sort (optional)
- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (id, **kwargs)

Get a single object of type <class 'gitlab.v3.objects.ProjectIssue'> using its id.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

create (data, **kwargs)

Create an object of type <class 'gitlab.v3.objects.ProjectIssue'>.

data is a dict defining the object attributes. Available attributes are:

- project_id (required if not discovered on the parent objects)
- title (required)
- description (optional)

- `assignee_id` (optional)
- `milestone_id` (optional)
- `labels` (optional)
- `created_at` (optional)
- `due_date` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectIssue*

class `gitlab.v3.objects.ProjectIssueNote` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- `body` (required)
- `created_at` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

canDelete = False

optionalCreateAttrs = ['created_at']

requiredCreateAttrs = ['body']

requiredUrlAttrs = ['project_id', 'issue_id']

class `gitlab.v3.objects.ProjectIssueNoteManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectIssueNote'> objects.

<class 'gitlab.v3.objects.ProjectIssueNote'> objects can be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectIssueNote'>.

Available keys for `kwargs` are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.ProjectIssueNote'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.ProjectIssueNote'>.

data is a dict defining the object attributes. Available attributes are:

- **project_id** (required if not discovered on the parent objects)
- **issue_id** (required if not discovered on the parent objects)
- **body** (required)
- **created_at** (optional)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectIssueNote*

class `gitlab.v3.objects.ProjectKey` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

canUpdate = False

requiredCreateAttrs = ['title', 'key']

requiredUrlAttrs = ['project_id']

class `gitlab.v3.objects.ProjectKeyManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectKey'> objects.

<class 'gitlab.v3.objects.ProjectKey'> objects **cannot** be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectKey'>.

Available keys for **kwargs** are:

- **per_page** (int): number of item per page. May be limited by the server.
- **page** (int): page to retrieve
- **all** (bool): iterate over all the pages and return all the entries
- **sudo** (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.ProjectKey'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.ProjectKey'>.

data is a dict defining the object attributes. Available attributes are:

- **project_id** (required if not discovered on the parent objects)

- title (required)

- key (required)

Available keys for `kwargs` are:

- sudo (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for `kwargs` are:

- sudo (string or int): run the request as another user (requires admin permissions)

disable (*key_id*)

Disable a deploy key for a project.

enable (*key_id*)

Enable a deploy key for a project.

obj_cls

alias of *ProjectKey*

class `gitlab.v3.objects.ProjectLabel` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- name (required)

- new_name (optional)

- color (optional)

- description (optional)

- priority (optional)

Available keys for `kwargs` are:

- sudo (string or int): run the request as another user (requires admin permissions)

canGet = 'from_list'

idAttr = 'name'

optionalCreateAttrs = ['description', 'priority']

optionalUpdateAttrs = ['new_name', 'color', 'description', 'priority']

requiredCreateAttrs = ['name', 'color']

requiredDeleteAttrs = ['name']

requiredUpdateAttrs = ['name']

requiredUrlAttrs = ['project_id']

subscribe (****kwargs**)

Subscribe to a label.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabSubscribeError` – If the subscription cannot be done

unsubscribe (**kwargs)

Unsubscribe a label.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabUnsubscribeError` – If the unsubscription cannot be done

class `gitlab.v3.objects.ProjectLabelManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectLabel'> objects.

<class 'gitlab.v3.objects.ProjectLabel'> objects can be updated.

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectLabel'>.

Available keys for kwargs are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, **kwargs)

Get a single object of type <class 'gitlab.v3.objects.ProjectLabel'> using its *id*.

Available keys for kwargs are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

create (*data*, **kwargs)

Create an object of type <class 'gitlab.v3.objects.ProjectLabel'>.

data is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)
- `name` (required)
- `color` (required)
- `description` (optional)
- `priority` (optional)

Available keys for kwargs are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, **kwargs)

Delete the object with ID *id*.

Available keys for kwargs are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectLabel`

class `gitlab.v3.objects.ProjectManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.Project'> objects.

<class 'gitlab.v3.objects.Project'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.Project'>.

Available keys for *kwargs* are:

- *search* (optional)
- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.Project'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.Project'>.

data is a dict defining the object attributes. Available attributes are:

- *name* (required)
- *path* (optional)
- *namespace_id* (optional)
- *description* (optional)
- *issues_enabled* (optional)
- *merge_requests_enabled* (optional)
- *builds_enabled* (optional)
- *wiki_enabled* (optional)
- *snippets_enabled* (optional)
- *container_registry_enabled* (optional)
- *shared_runners_enabled* (optional)
- *public* (optional)
- *visibility_level* (optional)
- *import_url* (optional)
- *public_builds* (optional)
- *only_allow_merge_if_build_succeeds* (optional)
- *only_allow_merge_if_all_discussions_are_resolved* (optional)
- *lfs_enabled* (optional)
- *request_access_enabled* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

all (****kwargs**)

List all the projects (need admin rights).

Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- ****kwargs** – Additional arguments to send to GitLab.

Returns The list of projects.

Return type *list*(gitlab.Gitlab.Project)

obj_cls

alias of *Project*

owned (****kwargs**)

List owned projects.

Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- ****kwargs** – Additional arguments to send to GitLab.

Returns The list of owned projects.

Return type *list*(gitlab.Gitlab.Project)

search (*query*, ****kwargs**)

Search projects by name.

API v3 only.

Note: The search is only performed on the project name (not on the namespace or the description). To perform a smarter search, use the `search` argument of the `list()` method:

```
gl.projects.list(search=your_search_string)
```

Parameters

- **query** (*str*) – The query string to send to GitLab for the search.
- **all** (*bool*) – If True, return all the items, without pagination
- ****kwargs** – Additional arguments to send to GitLab.

Returns A list of matching projects.

Return type *list*(gitlab.Gitlab.Project)

starred (****kwargs**)

List starred projects.

Parameters

- **all** (*bool*) – If True, return all the items, without pagination

- ****kwargs** – Additional arguments to send to GitLab.

Returns The list of starred projects.

Return type *list*(gitlab.Gitlab.Project)

class gitlab.v3.objects.**ProjectMember** (*gl, data=None, **kwargs*)

Bases: *gitlab.base.GitlabObject*

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- **access_level** (required)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

optionalCreateAttrs = ['expires_at']

requiredCreateAttrs = ['access_level', 'user_id']

requiredUpdateAttrs = ['access_level']

requiredUrlAttrs = ['project_id']

shortPrintAttr = 'username'

class gitlab.v3.objects.**ProjectMemberManager** (*gl, parent=None, args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectMember'> objects.

<class 'gitlab.v3.objects.ProjectMember'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectMember'>.

Available keys for **kwargs** are:

- **per_page** (int): number of item per page. May be limited by the server.
- **page** (int): page to retrieve
- **all** (bool): iterate over all the pages and return all the entries
- **sudo** (string or int): run the request as another user (requires admin permissions)

get (*id, **kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectMember'> using its **id**.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data, **kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectMember'>.

data is a dict defining the object attributes. Available attributes are:

- **project_id** (required if not discovered on the parent objects)
- **access_level** (required)
- **user_id** (required)
- **expires_at** (optional)

Available keys for **kwargs** are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectMember*

class `gitlab.v3.objects.ProjectMergeRequest` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

notes

ProjectMergeRequestNoteManager - Manager for objects.

diffs

ProjectMergeRequestDiffManager - Manager for objects.

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- `target_branch` (optional)
- `assignee_id` (optional)
- `title` (optional)
- `description` (optional)
- `state_event` (optional)
- `labels` (optional)
- `milestone_id` (optional)

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

add_spent_time (***kwargs*)

Set an estimated time of work for the merge request.

Raises *GitlabConnectionError* – If the server cannot be reached.

cancel_merge_when_build_succeeds (***kwargs*)

Cancel merge when build succeeds.

changes (***kwargs*)

List the merge request changes.

Returns List of changes

Return type *list* (dict)

Raises

- *GitlabConnectionError* – If the server cannot be reached.
- *GitlabListError* – If the server fails to perform the request.

closes_issues (***kwargs*)

List issues closed by the MR.

Returns List of closed issues

Return type *list (ProjectIssue)*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

commits (***kwargs*)

List the merge request commits.

Returns List of commits

Return type *list (ProjectCommit)*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabListError` – If the server fails to perform the request.

managers = (('notes', 'ProjectMergeRequestNoteManager', [(('project_id', 'project_id'), ('merge_request_id', 'id'))], ('d

merge (*merge_commit_message=None*, *should_remove_source_branch=False*,
merge_when_build_succeeds=False, ***kwargs*)
Accept the merge request.

Parameters

- **merge_commit_message** (*bool*) – Commit message
- **should_remove_source_branch** (*bool*) – If True, removes the source branch
- **merge_when_build_succeeds** (*bool*) – Wait for the build to succeed, then merge

Returns The updated MR

Return type *ProjectMergeRequest*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabMRForbiddenError` – If the user doesn't have permission to close thr MR
- `GitlabMRClosedError` – If the MR is already closed

optionalCreateAttrs = ['assignee_id', 'description', 'target_project_id', 'labels', 'milestone_id', 'remove_source_br

optionalListAttrs = ['iid', 'state', 'order_by', 'sort']

optionalUpdateAttrs = ['target_branch', 'assignee_id', 'title', 'description', 'state_event', 'labels', 'milestone_id']

requiredCreateAttrs = ['source_branch', 'target_branch', 'title']

requiredUrlAttrs = ['project_id']

reset_spent_time (***kwargs*)

Set an estimated time of work for the merge request.

Raises `GitlabConnectionError` – If the server cannot be reached.

reset_time_estimate (***kwargs*)

Resets estimated time for the merge request to 0 seconds.

Raises `GitlabConnectionError` – If the server cannot be reached.

subscribe (***kwargs*)

Subscribe to a MR.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabSubscribeError` – If the subscription cannot be done

time_estimate (**kwargs)

Set an estimated time of work for the merge request.

Raises `GitlabConnectionError` – If the server cannot be reached.**time_stats** (**kwargs)

Get time stats for the merge request.

Raises `GitlabConnectionError` – If the server cannot be reached.**todo** (**kwargs)

Create a todo for the merge request.

Raises `GitlabConnectionError` – If the server cannot be reached.**unsubscribe** (**kwargs)

Unsubscribe a MR.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabUnsubscribeError` – If the unsubscription cannot be done

class `gitlab.v3.objects.ProjectMergeRequestDiff` (*gl*, *data=None*, **kwargs)Bases: `gitlab.base.GitlabObject`**canCreate** = False**canDelete** = False**canUpdate** = False**requiredUrlAttrs** = ['project_id', 'merge_request_id']**class** `gitlab.v3.objects.ProjectMergeRequestDiffManager` (*gl*, *parent=None*, *args=[]*)Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectMergeRequestDiff'> objects.

<class 'gitlab.v3.objects.ProjectMergeRequestDiff'> objects **cannot** be updated.**list** (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectMergeRequestDiff'>.

Available keys for kwargs are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, **kwargs)Get a single object of type <class 'gitlab.v3.objects.ProjectMergeRequestDiff'> using its *id*.

Available keys for kwargs are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_clsalias of *ProjectMergeRequestDiff***class** gitlab.v3.objects.**ProjectMergeRequestManager** (*gl, parent=None, args=[]*)Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectMergeRequest'> objects.

<class 'gitlab.v3.objects.ProjectMergeRequest'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectMergeRequest'>.

Available keys for *kwargs* are:

- *iid* (optional)
- *state* (optional)
- *order_by* (optional)
- *sort* (optional)
- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id, **kwargs*)Get a single object of type <class 'gitlab.v3.objects.ProjectMergeRequest'> using its *id*.Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data, **kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectMergeRequest'>.

data is a dict defining the object attributes. Available attributes are:

- *project_id* (required if not discovered on the parent objects)
- *source_branch* (required)
- *target_branch* (required)
- *title* (required)
- *assignee_id* (optional)
- *description* (optional)
- *target_project_id* (optional)
- *labels* (optional)
- *milestone_id* (optional)
- *remove_source_branch* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectMergeRequest*

class `gitlab.v3.objects.ProjectMergeRequestNote` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- **body** (required)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

requiredCreateAttrs = ['body']

requiredUrlAttrs = ['project_id', 'merge_request_id']

class `gitlab.v3.objects.ProjectMergeRequestNoteManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectMergeRequestNote'> objects.

<class 'gitlab.v3.objects.ProjectMergeRequestNote'> objects can be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectMergeRequestNote'>.

Available keys for **kwargs** are:

- **per_page** (int): number of item per page. May be limited by the server.
- **page** (int): page to retrieve
- **all** (bool): iterate over all the pages and return all the entries
- **sudo** (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.ProjectMergeRequestNote'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.ProjectMergeRequestNote'>.

data is a dict defining the object attributes. Available attributes are:

- **project_id** (required if not discovered on the parent objects)
- **merge_request_id** (required if not discovered on the parent objects)
- **body** (required)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectMergeRequestNote*

class `gitlab.v3.objects.ProjectMilestone` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- **title** (optional)
- **description** (optional)
- **due_date** (optional)
- **start_date** (optional)
- **state_event** (optional)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

canDelete = False

issues (****kwargs**)

merge_requests (****kwargs**)

List the merge requests related to this milestone

Returns List of merge requests

Return type *list* (*ProjectMergeRequest*)

Raises

- *GitlabConnectionError* – If the server cannot be reached.
- *GitlabListError* – If the server fails to perform the request.

optionalCreateAttrs = ['description', 'due_date', 'start_date', 'state_event']

optionalListAttrs = ['iid', 'state']

optionalUpdateAttrs = ['title', 'description', 'due_date', 'start_date', 'state_event']

requiredCreateAttrs = ['title']

requiredUrlAttrs = ['project_id']

shortPrintAttr = 'title'

class `gitlab.v3.objects.ProjectMilestoneManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectMilestone'> objects.

<class 'gitlab.v3.objects.ProjectMilestone'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectMilestone'>.

Available keys for *kwargs* are:

- *iid* (optional)
- *state* (optional)
- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectMilestone'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectMilestone'>.

data is a dict defining the object attributes. Available attributes are:

- *project_id* (required if not discovered on the parent objects)
- *title* (required)
- *description* (optional)
- *due_date* (optional)
- *start_date* (optional)
- *state_event* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectMilestone*

class `gitlab.v3.objects.ProjectNote` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canDelete = False

canUpdate = False

requiredCreateAttrs = ['body']

requiredUrlAttrs = ['project_id']

class `gitlab.v3.objects.ProjectNoteManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectNote'> objects.

<class 'gitlab.v3.objects.ProjectNote'> objects **cannot** be updated.

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectNote'>.

Available keys for kwargs are:

- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (id, **kwargs)

Get a single object of type <class 'gitlab.v3.objects.ProjectNote'> using its id.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

create (data, **kwargs)

Create an object of type <class 'gitlab.v3.objects.ProjectNote'>.

data is a dict defining the object attributes. Available attributes are:

- project_id (required if not discovered on the parent objects)
- body (required)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectNote*

class gitlab.v3.objects.**ProjectNotificationSettings** (gl, data=None, **kwargs)

Bases: *gitlab.v3.objects.NotificationSettings*

save (**kwargs)

Send the modified object to the GitLab server. The following attributes are sent:

- level (optional)
- notification_email (optional)
- new_note (optional)
- new_issue (optional)
- reopen_issue (optional)
- close_issue (optional)
- reassign_issue (optional)
- new_merge_request (optional)
- reopen_merge_request (optional)
- close_merge_request (optional)
- reassign_merge_request (optional)
- merge_merge_request (optional)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

requiredUrlAttrs = ['project_id']

class gitlab.v3.objects.**ProjectNotificationSettingsManager** (*gl*, *parent=None*,
args=[])

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectNotificationSettings'> objects.

<class 'gitlab.v3.objects.ProjectNotificationSettings'> objects can be updated.

get (***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectNotificationSettings'>.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectNotificationSettings*

class gitlab.v3.objects.**ProjectPipeline** (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canDelete = False

canUpdate = False

cancel (***kwargs*)

Cancel builds in a pipeline.

Raises

- *GitlabConnectionError* – If the server cannot be reached.
- *GitlabPipelineCancelError* – If the retry cannot be done.

requiredCreateAttrs = ['ref']

requiredUrlAttrs = ['project_id']

retry (***kwargs*)

Retries failed builds in a pipeline.

Raises

- *GitlabConnectionError* – If the server cannot be reached.
- *GitlabPipelineRetryError* – If the retry cannot be done.

class gitlab.v3.objects.**ProjectPipelineManager** (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectPipeline'> objects.

<class 'gitlab.v3.objects.ProjectPipeline'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectPipeline'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.ProjectPipeline'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.ProjectPipeline'>.

data is a dict defining the object attributes. Available attributes are:

- **project_id** (required if not discovered on the parent objects)
- **ref** (required)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectPipeline*

class `gitlab.v3.objects.ProjectRunner` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

canUpdate = False

requiredCreateAttrs = ['runner_id']

class `gitlab.v3.objects.ProjectRunnerManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectRunner'> objects.

<class 'gitlab.v3.objects.ProjectRunner'> objects **cannot** be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectRunner'>.

Available keys for **kwargs** are:

- **per_page** (int): number of item per page. May be limited by the server.
- **page** (int): page to retrieve
- **all** (bool): iterate over all the pages and return all the entries
- **sudo** (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.ProjectRunner'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.ProjectRunner'>.

data is a dict defining the object attributes. Available attributes are:

- **runner_id** (required)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectRunner*

class `gitlab.v3.objects.ProjectService` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

Available keys for **kwargs** are:

- sudo** (string or int): run the request as another user (requires admin permissions)

canCreate = False

canList = False

getRequiresId = False

requiredUrlAttrs = ['project_id', 'service_name']

class `gitlab.v3.objects.ProjectServiceManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectService'> objects.

<class 'gitlab.v3.objects.ProjectService'> objects can be updated.

get (****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.ProjectService'>.

Available keys for **kwargs** are:

- sudo** (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- sudo** (string or int): run the request as another user (requires admin permissions)

available (****kwargs**)

List the services known by python-gitlab.

Returns The list of service code names.

Return type *list* (str)

obj_cls

alias of *ProjectService*

class `gitlab.v3.objects.ProjectSnippet` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

notes

ProjectSnippetNoteManager - Manager for objects.

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- `title` (optional)
- `file_name` (optional)
- `code` (optional)
- `visibility_level` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

content (*streamed=False, action=None, chunk_size=1024, **kwargs*)

Return the raw content of a snippet.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The snippet content

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

managers = (('notes', 'ProjectSnippetNoteManager', [(('project_id', 'project_id'), ('snippet_id', 'id'))],)

optionalCreateAttrs = ['lifetime', 'visibility_level']

optionalUpdateAttrs = ['title', 'file_name', 'code', 'visibility_level']

requiredCreateAttrs = ['title', 'file_name', 'code']

requiredUrlAttrs = ['project_id']

shortPrintAttr = 'title'

class `gitlab.v3.objects.ProjectSnippetManager` (*gl, parent=None, args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectSnippet'> objects.

<class 'gitlab.v3.objects.ProjectSnippet'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectSnippet'>.

Available keys for `kwargs` are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id, **kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectSnippet'> using its `id`.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type `<class 'gitlab.v3.objects.ProjectSnippet'>`.

data is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)
- `title` (required)
- `file_name` (required)
- `code` (required)
- `lifetime` (optional)
- `visibility_level` (optional)

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectSnippet`

class `gitlab.v3.objects.ProjectSnippetNote` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

canDelete = `False`

canUpdate = `False`

requiredCreateAttrs = `['body']`

requiredUrlAttrs = `['project_id', 'snippet_id']`

class `gitlab.v3.objects.ProjectSnippetNoteManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for `<class 'gitlab.v3.objects.ProjectSnippetNote'>` objects.

`<class 'gitlab.v3.objects.ProjectSnippetNote'>` objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type `<class 'gitlab.v3.objects.ProjectSnippetNote'>`.

Available keys for *kwargs* are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type `<class 'gitlab.v3.objects.ProjectSnippetNote'>` using its *id*.

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectSnippetNote'>.

data is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)
- `snippet_id` (required if not discovered on the parent objects)
- `body` (required)

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectSnippetNote*

class `gitlab.v3.objects.ProjectTag` (*gl*, *data=None*, ***kwargs*)

Bases: *gitlab.base.GitlabObject*

canGet = 'from_list'

canUpdate = False

idAttr = 'name'

optionalCreateAttrs = ['message']

requiredCreateAttrs = ['tag_name', 'ref']

requiredUrlAttrs = ['project_id']

set_release_description (*description*)

Set the release notes on the tag.

If the release doesn't exist yet, it will be created. If it already exists, its description will be updated.

Parameters *description* (*str*) – Description of the release.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabCreateError` – If the server fails to create the release.
- `GitlabUpdateError` – If the server fails to update the release.

shortPrintAttr = 'name'

class `gitlab.v3.objects.ProjectTagManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.ProjectTag'> objects.

<class 'gitlab.v3.objects.ProjectTag'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectTag'>.

Available keys for *kwargs* are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries

- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.ProjectTag'> using its *id*.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.ProjectTag'>.

data is a dict defining the object attributes. Available attributes are:

- `project_id` (required if not discovered on the parent objects)
- `tag_name` (required)
- `ref` (required)
- `message` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *ProjectTag*

class `gitlab.v3.objects.ProjectTagRelease` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

save (****kwargs**)

Send the modified object to the GitLab server. The following attributes are sent:

- `description` (required)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

canDelete = `False`

canList = `False`

requiredCreateAttrs = ['description']

requiredUrlAttrs = ['project_id', 'tag_name']

shortPrintAttr = 'description'

class `gitlab.v3.objects.ProjectTrigger` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

canUpdate = `False`

idAttr = 'token'

requiredUrlAttrs = ['project_id']

class `gitlab.v3.objects.ProjectTriggerManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectTrigger'> objects.

<class 'gitlab.v3.objects.ProjectTrigger'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectTrigger'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectTrigger'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectTrigger'>.

data is a dict defining the object attributes. Available attributes are:

- *project_id* (required if not discovered on the parent objects)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectTrigger`

class `gitlab.v3.objects.ProjectVariable` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- *key* (required)
- *value* (required)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

idAttr = 'key'

requiredCreateAttrs = ['key', 'value']

requiredUrlAttrs = ['project_id']

class `gitlab.v3.objects.ProjectVariableManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.ProjectVariable'> objects.

<class 'gitlab.v3.objects.ProjectVariable'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.ProjectVariable'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.ProjectVariable'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.ProjectVariable'>.

data is a dict defining the object attributes. Available attributes are:

- *project_id* (required if not discovered on the parent objects)
- *key* (required)
- *value* (required)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `ProjectVariable`

class `gitlab.v3.objects.Runner` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- *description* (optional)
- *active* (optional)
- *tag_list* (optional)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

canCreate = False

optionalListAttrs = ['scope']

optionalUpdateAttrs = ['description', 'active', 'tag_list']

class `gitlab.v3.objects.RunnerManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.Runner'> objects.

<class 'gitlab.v3.objects.Runner'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.Runner'>.

Available keys for *kwargs* are:

- *scope* (optional)
- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.Runner'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

all (*scope=None*, ***kwargs*)

List all the runners.

Parameters *scope* (*str*) – The scope of runners to show, one of: specific, shared, active, paused, online

Returns a list of runners matching the scope.

Return type `list(Runner)`

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabListError` – If the resource cannot be found

obj_cls

alias of `Runner`

class `gitlab.v3.objects.SidekiqManager` (*gl*)

Bases: `object`

Manager for the Sidekiq methods.

This manager doesn't actually manage objects but provides helper fonction for the sidekiq metrics API.

compound_metrics (***kwargs*)

Returns all available metrics and statistics.

job_stats (**kwargs)

Returns statistics about the jobs performed.

process_metrics (**kwargs)

Returns the registred sidekiq workers.

queue_metrics (**kwargs)

Returns the registred queues information.

class gitlab.v3.objects.**Snippet** (gl, data=None, **kwargs)

Bases: *gitlab.base.GitlabObject*

save (**kwargs)

Send the modified object to the GitLab server. The following attributes are sent:

- **title** (optional)
- **file_name** (optional)
- **content** (optional)
- **visibility_level** (optional)

Available keys for kwargs are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

optionalCreateAttrs = ['lifetime', 'visibility_level']

optionalUpdateAttrs = ['title', 'file_name', 'content', 'visibility_level']

raw (streamed=False, action=None, chunk_size=1024, **kwargs)

Return the raw content of a snippet.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data.
- **chunk_size** (*int*) – Size of each chunk.

Returns The snippet content.

Return type str

Raises

- *GitlabConnectionError* – If the server cannot be reached.
- *GitlabGetError* – If the server fails to perform the request.

requiredCreateAttrs = ['title', 'file_name', 'content']

shortPrintAttr = 'title'

class gitlab.v3.objects.**SnippetManager** (gl, parent=None, args=[])

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.Snippet'> objects.

<class 'gitlab.v3.objects.Snippet'> objects can be updated.

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.Snippet'>.

Available keys for kwargs are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type `<class 'gitlab.v3.objects.Snippet'>` using its `id`.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type `<class 'gitlab.v3.objects.Snippet'>`.

`data` is a dict defining the object attributes. Available attributes are:

- `title` (required)
- `file_name` (required)
- `content` (required)
- `lifetime` (optional)
- `visibility_level` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID `id`.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `Snippet`

public (****kwargs**)

List all the public snippets.

Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- ****kwargs** – Additional arguments to send to GitLab.

Returns The list of snippets.

Return type `list(gitlab.Gitlab.Snippet)`

class `gitlab.v3.objects.Team` (*gl*, *data=None*, ****kwargs**)

Bases: `gitlab.base.GitlabObject`

canUpdate = False

managers = (('members', 'TeamMemberManager', [('team_id', 'id')]), ('projects', 'TeamProjectManager', [('team_id',

requiredCreateAttrs = ['name', 'path']

shortPrintAttr = 'name'

class `gitlab.v3.objects.TeamManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.Team'> objects.

<class 'gitlab.v3.objects.Team'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.Team'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.Team'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.Team'>.

data is a dict defining the object attributes. Available attributes are:

- *name* (required)
- *path* (required)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of `Team`

class `gitlab.v3.objects.TeamMember` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

canUpdate = `False`

requiredCreateAttrs = `['access_level']`

requiredUrlAttrs = `['team_id']`

shortPrintAttr = `'username'`

class `gitlab.v3.objects.TeamMemberManager` (*gl*, *parent=None*, *args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.TeamMember'> objects.

<class 'gitlab.v3.objects.TeamMember'> objects **cannot** be updated.

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.TeamMember'>.

Available keys for kwargs are:

- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve
- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (id, **kwargs)

Get a single object of type <class 'gitlab.v3.objects.TeamMember'> using its id.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

create (data, **kwargs)

Create an object of type <class 'gitlab.v3.objects.TeamMember'>.

data is a dict defining the object attributes. Available attributes are:

- teamd_id (required if not discovered on the parent objects)
- access_level (required)

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

delete (id, **kwargs)

Delete the object with ID id.

Available keys for kwargs are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *TeamMember*

class gitlab.v3.objects.**TeamProject** (gl, data=None, **kwargs)

Bases: *gitlab.base.GitlabObject*

canUpdate = False

requiredCreateAttrs = ['greatest_access_level']

requiredUrlAttrs = ['team_id']

shortPrintAttr = 'name'

class gitlab.v3.objects.**TeamProjectManager** (gl, parent=None, args=[])

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.TeamProject'> objects.

<class 'gitlab.v3.objects.TeamProject'> objects **cannot** be updated.

list (**kwargs)

Returns a list of objects of type <class 'gitlab.v3.objects.TeamProject'>.

Available keys for kwargs are:

- per_page (int): number of item per page. May be limited by the server.
- page (int): page to retrieve

- all (bool): iterate over all the pages and return all the entries
- sudo (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.TeamProject'> using its *id*.

Available keys for **kwargs** are:

- sudo (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.TeamProject'>.

data is a dict defining the object attributes. Available attributes are:

- team_id (required if not discovered on the parent objects)
- greatest_access_level (required)

Available keys for **kwargs** are:

- sudo (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- sudo (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *TeamProject*

class gitlab.v3.objects.**Todo** (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

canCreate = False

canGet = 'from_list'

canUpdate = False

optionalListAttrs = ['action', 'author_id', 'project_id', 'state', 'type']

class gitlab.v3.objects.**TodoManager** (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.Todo'> objects.

<class 'gitlab.v3.objects.Todo'> objects **cannot** be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.Todo'>.

Available keys for **kwargs** are:

- action (optional)
- author_id (optional)
- project_id (optional)
- state (optional)
- type (optional)
- per_page (int): number of item per page. May be limited by the server.

- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type `<class 'gitlab.v3.objects.TODO'>` using its `id`.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID `id`.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete_all (***kwargs*)

Mark all the todos as done.

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabDeleteError` – If the resource cannot be found

Returns The number of todos made done.

obj_cls

alias of `TODO`

class `gitlab.v3.objects.User` (*gl*, *data=None*, ***kwargs*)

Bases: `gitlab.base.GitlabObject`

emails

`UserEmailManager` - Manager for objects.

keys

`UserKeyManager` - Manager for objects.

projects

`UserProjectManager` - Manager for objects.

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

- `email` (required)
- `username` (required)
- `name` (required)
- `password` (optional)
- `skype` (optional)
- `linkedin` (optional)
- `twitter` (optional)
- `projects_limit` (optional)
- `extern_uid` (optional)
- `provider` (optional)

- `bio` (optional)
- `admin` (optional)
- `can_create_group` (optional)
- `website_url` (optional)
- `confirm` (optional)
- `external` (optional)
- `organization` (optional)
- `location` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

block (***kwargs*)

Blocks the user.

managers = (('emails', 'UserEmailManager', [('user_id', 'id')]), ('keys', 'UserKeyManager', [('user_id', 'id')]), ('project

optionalCreateAttrs = ['password', 'reset_password', 'skype', 'linkedin', 'twitter', 'projects_limit', 'extern_uid', 'p

optionalUpdateAttrs = ['password', 'skype', 'linkedin', 'twitter', 'projects_limit', 'extern_uid', 'provider', 'bio', 'ad

requiredCreateAttrs = ['email', 'username', 'name']

requiredUpdateAttrs = ['email', 'username', 'name']

shortPrintAttr = 'username'

unblock (***kwargs*)

Unblocks the user.

class `gitlab.v3.objects.UserEmail` (*gl, data=None, **kwargs*)

Bases: `gitlab.base.GitlabObject`

canUpdate = False

requiredCreateAttrs = ['email']

requiredUrlAttrs = ['user_id']

shortPrintAttr = 'email'

class `gitlab.v3.objects.UserEmailManager` (*gl, parent=None, args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for <class 'gitlab.v3.objects.UserEmail'> objects.

<class 'gitlab.v3.objects.UserEmail'> objects **cannot** be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.UserEmail'>.

Available keys for `kwargs` are:

- `per_page` (int): number of item per page. May be limited by the server.
- `page` (int): page to retrieve
- `all` (bool): iterate over all the pages and return all the entries
- `sudo` (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.UserEmail'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data*, ****kwargs**)

Create an object of type <class 'gitlab.v3.objects.UserEmail'>.

data is a dict defining the object attributes. Available attributes are:

- **user_id** (required if not discovered on the parent objects)
- **email** (required)

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *UserEmail*

class `gitlab.v3.objects.UserKey` (*gl*, *data=None*, ****kwargs**)

Bases: *gitlab.base.GitlabObject*

canGet = 'from_list'

canUpdate = False

requiredCreateAttrs = ['title', 'key']

requiredUrlAttrs = ['user_id']

class `gitlab.v3.objects.UserKeyManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.UserKey'> objects.

<class 'gitlab.v3.objects.UserKey'> objects **cannot** be updated.

list (****kwargs**)

Returns a list of objects of type <class 'gitlab.v3.objects.UserKey'>.

Available keys for **kwargs** are:

- **per_page** (int): number of item per page. May be limited by the server.
- **page** (int): page to retrieve
- **all** (bool): iterate over all the pages and return all the entries
- **sudo** (string or int): run the request as another user (requires admin permissions)

get (*id*, ****kwargs**)

Get a single object of type <class 'gitlab.v3.objects.UserKey'> using its *id*.

Available keys for **kwargs** are:

- **sudo** (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.UserKey'>.

data is a dict defining the object attributes. Available attributes are:

- *user_id* (required if not discovered on the parent objects)
- *title* (required)
- *key* (required)

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

delete (*id*, ***kwargs*)

Delete the object with ID *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

obj_cls

alias of *UserKey*

class `gitlab.v3.objects.UserManager` (*gl*, *parent=None*, *args=[]*)

Bases: *gitlab.base.BaseManager*

Manager for <class 'gitlab.v3.objects.User'> objects.

<class 'gitlab.v3.objects.User'> objects can be updated.

list (***kwargs*)

Returns a list of objects of type <class 'gitlab.v3.objects.User'>.

Available keys for *kwargs* are:

- *per_page* (int): number of item per page. May be limited by the server.
- *page* (int): page to retrieve
- *all* (bool): iterate over all the pages and return all the entries
- *sudo* (string or int): run the request as another user (requires admin permissions)

get (*id*, ***kwargs*)

Get a single object of type <class 'gitlab.v3.objects.User'> using its *id*.

Available keys for *kwargs* are:

- *sudo* (string or int): run the request as another user (requires admin permissions)

create (*data*, ***kwargs*)

Create an object of type <class 'gitlab.v3.objects.User'>.

data is a dict defining the object attributes. Available attributes are:

- *email* (required)
- *username* (required)
- *name* (required)
- *password* (optional)
- *reset_password* (optional)
- *skype* (optional)

- `linkedin` (optional)
- `twitter` (optional)
- `projects_limit` (optional)
- `extern_uid` (optional)
- `provider` (optional)
- `bio` (optional)
- `admin` (optional)
- `can_create_group` (optional)
- `website_url` (optional)
- `confirm` (optional)
- `external` (optional)
- `organization` (optional)
- `location` (optional)

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

delete (*id*, ****kwargs**)

Delete the object with ID *id*.

Available keys for `kwargs` are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

get_by_username (*username*, ****kwargs**)

Get a user by its username.

Parameters

- **username** (*str*) – The name of the user.
- ****kwargs** – Additional arguments to send to GitLab.

Returns The matching user.

Return type *User*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

obj_cls

alias of *User*

search (*query*, ****kwargs**)

Search users.

Parameters

- **query** (*str*) – The query string to send to GitLab for the search.
- **all** (*bool*) – If True, return all the items, without pagination
- ****kwargs** – Additional arguments to send to GitLab.

Returns A list of matching users.

Return type *list(User)*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabListError` – If the server fails to perform the request.

class `gitlab.v3.objects.UserProject` (*gl, data=None, **kwargs*)

Bases: `gitlab.base.GitlabObject`

canDelete = `False`

canGet = `False`

canList = `False`

canUpdate = `False`

optionalCreateAttrs = `['default_branch', 'issues_enabled', 'wall_enabled', 'merge_requests_enabled', 'wiki_enabled']`

requiredCreateAttrs = `['name']`

requiredUrlAttrs = `['user_id']`

class `gitlab.v3.objects.UserProjectManager` (*gl, parent=None, args=[]*)

Bases: `gitlab.base.BaseManager`

Manager for `<class 'gitlab.v3.objects.UserProject'>` objects.

`<class 'gitlab.v3.objects.UserProject'>` objects **cannot** be updated.

create (*data, **kwargs*)

Create an object of type `<class 'gitlab.v3.objects.UserProject'>`.

data is a dict defining the object attributes. Available attributes are:

- `user_id` (required if not discovered on the parent objects)
- `name` (required)
- `default_branch` (optional)
- `issues_enabled` (optional)
- `wall_enabled` (optional)
- `merge_requests_enabled` (optional)
- `wiki_enabled` (optional)
- `snippets_enabled` (optional)
- `public` (optional)
- `visibility_level` (optional)
- `description` (optional)
- `builds_enabled` (optional)
- `public_builds` (optional)
- `import_url` (optional)
- `only_allow_merge_if_build_succeeds` (optional)

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

`obj_cls`

alias of `UserProject`

Module contents

gitlab.v4 package

Submodules

gitlab.v4.objects module

class `gitlab.v4.objects.ApplicationSettings` (*manager, attrs*)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.ApplicationSettingsManager` (*gl, parent=None*)

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.BroadcastMessage` (*manager, attrs*)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.BroadcastMessageManager` (*gl, parent=None*)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.CurrentUser` (*manager, attrs*)

Bases: `gitlab.base.RESTObject`

class `gitlab.v4.objects.CurrentUserEmail` (*manager, attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.CurrentUserEmailManager` (*gl, parent=None*)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.CurrentUserKey` (*manager, attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.CurrentUserKeyManager` (*gl, parent=None*)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.CurrentUserManager` (*gl, parent=None*)

Bases: `gitlab.mixins.GetWithoutIdMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.DeployKey` (*manager, attrs*)

Bases: `gitlab.base.RESTObject`

class `gitlab.v4.objects.DeployKeyManager` (*gl, parent=None*)

Bases: `gitlab.mixins.GetFromListMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.Dockerfile` (*manager, attrs*)

Bases: `gitlab.base.RESTObject`

class `gitlab.v4.objects.DockerfileManager` (*gl, parent=None*)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

```
class gitlab.v4.objects.Gitignore (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.GitignoreManager (gl, parent=None)
    Bases: gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager

class gitlab.v4.objects.Gitlabciyaml (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.GitlabciyamlManager (gl, parent=None)
    Bases: gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager

class gitlab.v4.objects.Group (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

transfer_project (*args, **kwargs)
    Transfer a project to this group.

    Parameters

    • to_project_id (int) – ID of the project to transfer

    • **kwargs – Extra options to send to the server (e.g. sudo)

    Raises

    • GitlabAuthenticationError – If authentication is not correct

    • GitlabTransferProjectError – If the project could not be transferred

class gitlab.v4.objects.GroupAccessRequest (manager, attrs)
    Bases: gitlab.mixins.AccessRequestMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

class gitlab.v4.objects.GroupAccessRequestManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.mixins.CreateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager

class gitlab.v4.objects.GroupIssue (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.GroupIssueManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.base.RESTManager

class gitlab.v4.objects.GroupManager (gl, parent=None)
    Bases: gitlab.mixins.CRUDMixin, gitlab.base.RESTManager

class gitlab.v4.objects.GroupMember (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

class gitlab.v4.objects.GroupMemberManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.mixins.CreateMixin, gitlab.mixins.UpdateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager

class gitlab.v4.objects.GroupNotificationSettings (manager, attrs)
    Bases: gitlab.v4.objects.NotificationSettings

class gitlab.v4.objects.GroupNotificationSettingsManager (gl, parent=None)
    Bases: gitlab.v4.objects.NotificationSettingsManager

class gitlab.v4.objects.GroupProject (manager, attrs)
    Bases: gitlab.v4.objects.Project
```

```

class gitlab.v4.objects.GroupProjectManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.base.RESTManager

class gitlab.v4.objects.GroupVariable (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

class gitlab.v4.objects.GroupVariableManager (gl, parent=None)
    Bases: gitlab.mixins.CRUDMixin, gitlab.base.RESTManager

class gitlab.v4.objects.Hook (manager, attrs)
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

class gitlab.v4.objects.HookManager (gl, parent=None)
    Bases: gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager

class gitlab.v4.objects.Issue (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.IssueManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.base.RESTManager

class gitlab.v4.objects.License (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.LicenseManager (gl, parent=None)
    Bases: gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager

class gitlab.v4.objects.Namespace (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.NamespaceManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.base.RESTManager

class gitlab.v4.objects.NotificationSettings (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.base.RESTObject

class gitlab.v4.objects.NotificationSettingsManager (gl, parent=None)
    Bases: gitlab.mixins.GetWithoutIdMixin, gitlab.mixins.UpdateMixin, gitlab.base.RESTManager

class gitlab.v4.objects.Project (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

archive (*args, **kwargs)
    Archive a project.

    Parameters **kwargs – Extra options to send to the server (e.g. sudo)

    Raises

- GitlabAuthenticationError – If authentication is not correct
- GitlabCreateError – If the server failed to perform the request

create_fork_relation (*args, **kwargs)
    Create a forked from/to relation between existing projects.

    Parameters

- forked_from_id (int) – The ID of the project that was forked from
- **kwargs – Extra options to send to the server (e.g. sudo)

```

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the relation could not be created

delete_fork_relation (*args, **kwargs)

Delete a forked relation between existing projects.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabDeleteError` – If the server failed to perform the request

repository_archive (*args, **kwargs)

Return a tarball of the repository.

Parameters

- **sha** (*str*) – ID of the commit (default branch by default)
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*callable*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the server failed to perform the request

Returns The binary data of the archive

Return type `str`

repository_blob (*args, **kwargs)

Return a blob by blob SHA.

Parameters

- **sha** (*str*) – ID of the blob
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server failed to perform the request

Returns The blob metadata

Return type `str`

repository_compare (*args, **kwargs)

Return a diff between two branches/commits.

Parameters

- **from** (*str*) – Source branch/SHA
- **to** (*str*) – Destination branch/SHA

- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server failed to perform the request

Returns The diff**Return type** `str`**repository_contributors** (**args*, ***kwargs*)

Return a list of contributors for the project.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server failed to perform the request

Returns The contributors**Return type** *list***repository_raw_blob** (**args*, ***kwargs*)

Return the raw file contents for a blob.

Parameters

- **sha** (*str*) – ID of the blob
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*callable*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server failed to perform the request

Returns The blob content if streamed is False, None otherwise**Return type** `str`**repository_tree** (**args*, ***kwargs*)

Return a list of files in the repository.

Parameters

- **path** (*str*) – Path of the top folder (/ by default)
- **ref** (*str*) – Reference to a commit or branch
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server failed to perform the request

Returns The representation of the tree

Return type *list*

share (*args, **kwargs)

Share the project with a group.

Parameters

- **group_id** (*int*) – ID of the group.
- **group_access** (*int*) – Access level for the group.
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server failed to perform the request

star (*args, **kwargs)

Star a project.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server failed to perform the request

trigger_pipeline (*args, **kwargs)

Trigger a CI build.

See <https://gitlab.com/help/ci/triggers/README.md#trigger-a-build>

Parameters

- **ref** (*str*) – Commit to build; can be a commit SHA, a branch name, ...
- **token** (*str*) – The trigger token
- **variables** (*dict*) – Variables passed to the build script
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server failed to perform the request

unarchive (*args, **kwargs)

Unarchive a project.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabDeleteError` – If the server failed to perform the request

unstar (*args, **kwargs)

Unstar a project.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabDeleteError` – If the server failed to perform the request

```
class gitlab.v4.objects.ProjectAccessRequest (manager, attrs)
    Bases: gitlab.mixins.AccessRequestMixin, gitlab.mixins.ObjectDeleteMixin,
            gitlab.base.RESTObject
```

```
class gitlab.v4.objects.ProjectAccessRequestManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.mixins.CreateMixin, gitlab.
            mixins.DeleteMixin, gitlab.base.RESTManager
```

```
class gitlab.v4.objects.ProjectBoard (manager, attrs)
    Bases: gitlab.base.RESTObject
```

```
class gitlab.v4.objects.ProjectBoardList (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.
            RESTObject
```

```
class gitlab.v4.objects.ProjectBoardListManager (gl, parent=None)
    Bases: gitlab.mixins.CRUDMixin, gitlab.base.RESTManager
```

```
class gitlab.v4.objects.ProjectBoardManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.base.RESTManager
```

```
class gitlab.v4.objects.ProjectBranch (manager, attrs)
    Bases: gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject
```

```
protect (*args, **kwargs)
    Protect the branch.
```

Parameters

- **`developers_can_push`** (*bool*) – Set to True if developers are allowed to push to the branch
- **`developers_can_merge`** (*bool*) – Set to True if developers are allowed to merge to the branch
- **`**kwargs`** – Extra options to send to the server (e.g. `sudo`)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabProtectError` – If the branch could not be protected

```
unprotect (*args, **kwargs)
    Unprotect the branch.
```

Parameters **`**kwargs`** – Extra options to send to the server (e.g. `sudo`)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabProtectError` – If the branch could not be unprotected

```
class gitlab.v4.objects.ProjectBranchManager (gl, parent=None)
    Bases: gitlab.mixins.NoUpdateMixin, gitlab.base.RESTManager
```

```
class gitlab.v4.objects.ProjectCommit (manager, attrs)
    Bases: gitlab.base.RESTObject
```

```
cherry_pick (*args, **kwargs)
    Cherry-pick a commit into a branch.
```

Parameters

- **branch** (*str*) – Name of target branch
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCherryPickError` – If the cherry-pick could not be performed

diff (**args*, ***kwargs*)

Generate the commit diff.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)**Raises**

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the diff could not be retrieved

Returns The changes done in this commit**Return type** *list***class** `gitlab.v4.objects.ProjectCommitComment` (*manager*, *attrs*)Bases: `gitlab.base.RESTObject`**class** `gitlab.v4.objects.ProjectCommitCommentManager` (*gl*, *parent=None*)Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`**class** `gitlab.v4.objects.ProjectCommitManager` (*gl*, *parent=None*)Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`**class** `gitlab.v4.objects.ProjectCommitStatus` (*manager*, *attrs*)Bases: `gitlab.base.RESTObject`**class** `gitlab.v4.objects.ProjectCommitStatusManager` (*gl*, *parent=None*)Bases: `gitlab.mixins.GetFromListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`**create** (*data*, ***kwargs*)

Create a new object.

Parameters

- **data** (*dict*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra data to send to the Gitlab server (e.g. sudo or 'ref_name', 'stage', 'name', 'all').

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server cannot perform the request

Returns**A new instance of the manage object class build with** the data sent by the server**Return type** `RESTObject`

```

class gitlab.v4.objects.ProjectDeployment (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.ProjectDeploymentManager (gl, parent=None)
    Bases: gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager

class gitlab.v4.objects.ProjectEnvironment (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

class gitlab.v4.objects.ProjectEnvironmentManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.mixins.CreateMixin, gitlab.mixins.UpdateMixin, gitlab.mixins.DeleteMixin, gitlab.base.RESTManager

class gitlab.v4.objects.ProjectEvent (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.ProjectEventManager (gl, parent=None)
    Bases: gitlab.mixins.ListMixin, gitlab.base.RESTManager

class gitlab.v4.objects.ProjectFile (manager, attrs)
    Bases: gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject

decode ()
    Returns the decoded content of the file.

    Returns the decoded content.

    Return type (str)

delete (branch, commit_message, **kwargs)
    Delete the file from the server.

    Parameters

    • branch (str) – Branch from which the file will be removed
    • commit_message (str) – Commit message for the deletion
    • **kwargs – Extra options to send to the server (e.g. sudo)

    Raises

    • GitlabAuthenticationError – If authentication is not correct
    • GitlabDeleteError – If the server cannot perform the request

save (branch, commit_message, **kwargs)
    Save the changes made to the file to the server.

    The object is updated to match what the server returns.

    Parameters

    • branch (str) – Branch in which the file will be updated
    • commit_message (str) – Message to send with the commit
    • **kwargs – Extra options to send to the server (e.g. sudo)

    Raises

    • GitlabAuthenticationError – If authentication is not correct
    • GitlabUpdateError – If the server cannot perform the request

```

class `gitlab.v4.objects.ProjectFileManager` (*gl*, *parent=None*)
Bases: `gitlab.mixins.GetMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

create (**args*, ***kwargs*)
Create a new object.

Parameters

- **data** (*dict*) – parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns

a new instance of the managed object class built with the data sent by the server

Return type *RESTObject*

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server cannot perform the request

delete (**args*, ***kwargs*)
Delete a file on the server.

Parameters

- **file_path** (*str*) – Path of the file to remove
- **branch** (*str*) – Branch from which the file will be removed
- **commit_message** (*str*) – Commit message for the deletion
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabDeleteError` – If the server cannot perform the request

get (**args*, ***kwargs*)
Retrieve a single file.

Parameters

- **file_path** (*str*) – Path of the file to retrieve
- **ref** (*str*) – Name of the branch, tag or commit
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the file could not be retrieved

Returns The generated `RESTObject`

Return type `object`

raw (**args*, ***kwargs*)
Return the content of a file for a commit.

Parameters

- **ref** (*str*) – ID of the commit
- **filepath** (*str*) – Path of the file to return
- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*callable*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the file could not be retrieved

Returns The file content**Return type** `str`**class** `gitlab.v4.objects.ProjectFork` (*manager, attrs*)Bases: `gitlab.base.RESTObject`**class** `gitlab.v4.objects.ProjectForkManager` (*gl, parent=None*)Bases: `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`**class** `gitlab.v4.objects.ProjectHook` (*manager, attrs*)Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`**class** `gitlab.v4.objects.ProjectHookManager` (*gl, parent=None*)Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`**class** `gitlab.v4.objects.ProjectIssue` (*manager, attrs*)Bases: `gitlab.mixins.SubscribableMixin`, `gitlab.mixins.TODOMixin`, `gitlab.mixins.TimeTrackingMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`**move** (**args, **kwargs*)

Move the issue to another project.

Parameters

- **to_project_id** (*int*) – ID of the target project
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUpdateError` – If the issue could not be moved

class `gitlab.v4.objects.ProjectIssueManager` (*gl, parent=None*)Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`**class** `gitlab.v4.objects.ProjectIssueNote` (*manager, attrs*)Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`**class** `gitlab.v4.objects.ProjectIssueNoteManager` (*gl, parent=None*)Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectJob` (*manager, attrs*)

Bases: `gitlab.base.RESTObject`

artifacts (**args, **kwargs*)

Get the job artifacts.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*callable*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the artifacts could not be retrieved

Returns The artifacts if *streamed* is False, None otherwise.

Return type `str`

cancel (**args, **kwargs*)

Cancel the job.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabJobCancelError` – If the job could not be canceled

erase (**args, **kwargs*)

Erase the job (remove job artifacts and trace).

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabJobEraseError` – If the job could not be erased

keep_artifacts (**args, **kwargs*)

Prevent artifacts from being deleted when expiration is set.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the request could not be performed

play (**args, **kwargs*)

Trigger a job explicitly.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct

- `GitlabJobPlayError` – If the job could not be triggered

retry (*args, **kwargs)

Retry the job.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabJobRetryError` – If the job could not be retried

trace (*args, **kwargs)

Get the job trace.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment
- **action** (*callable*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the artifacts could not be retrieved

Returns The trace

Return type str

class `gitlab.v4.objects.ProjectJobManager` (*gl, parent=None*)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectKey` (*manager, attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectKeyManager` (*gl, parent=None*)

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

enable (*args, **kwargs)

Enable a deploy key for a project.

Parameters

- **key_id** (*int*) – The ID of the key to enable
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabProjectDeployKeyError` – If the key could not be enabled

class `gitlab.v4.objects.ProjectLabel` (*manager, attrs*)

Bases: `gitlab.mixins.SubscribableMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

save (*args, **kwargs)

Saves the changes made to the object to the server.

The object is updated to match what the server returns.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct.
- `GitlabUpdateError` – If the server cannot perform the request.

class `gitlab.v4.objects.ProjectLabelManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.GetFromListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

delete (**args*, ****kwargs**)

Delete a Label on the server.

Parameters

- **name** – The name of the label
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct.
- `GitlabDeleteError` – If the server cannot perform the request.

class `gitlab.v4.objects.ProjectManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectMember` (*manager*, *attrs*)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectMemberManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectMergeRequest` (*manager*, *attrs*)

Bases: `gitlab.mixins.SubscribableMixin`, `gitlab.mixins.TODOMixin`, `gitlab.mixins.TimeTrackingMixin`, `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

cancel_merge_when_pipeline_succeeds (**args*, ****kwargs**)

Cancel merge when the pipeline succeeds.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabMROnBuildSuccessError` – If the server could not handle the request

changes (**args*, ****kwargs**)

List the merge request changes.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the list could not be retrieved

Returns List of changes

Return type *RESTObjectList*

closes_issues (*args, **kwargs)

List issues that will close on merge.”

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the list could not be retrieved

Returns List of issues

Return type *RESTObjectList*

commits (*args, **kwargs)

List the merge request commits.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the list could not be retrieved

Returns The list of commits

Return type *RESTObjectList*

merge (*args, **kwargs)

Accept the merge request.

Parameters

- **merge_commit_message** (*bool*) – Commit message
- **should_remove_source_branch** (*bool*) – If True, removes the source branch
- **merge_when_pipeline_succeeds** (*bool*) – Wait for the build to succeed, then merge
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabMRClosedError` – If the merge failed

class `gitlab.v4.objects.ProjectMergeRequestDiff` (*manager, attrs*)

Bases: `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectMergeRequestDiffManager` (*gl, parent=None*)

Bases: `gitlab.mixins.RetrieveMixin, gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectMergeRequestManager` (*gl, parent=None*)

Bases: `gitlab.mixins.CRUDMixin, gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectMergeRequestNote` (*manager, attrs*)

Bases: `gitlab.mixins.SaveMixin, gitlab.mixins.ObjectDeleteMixin, gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectMergeRequestNoteManager` (*gl, parent=None*)

Bases: `gitlab.mixins.CRUDMixin, gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectMilestone` (*manager, attrs*)
Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

issues (**args, **kwargs*)
List issues related to this milestone.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the list could not be retrieved

Returns The list of issues

Return type `RESTObjectList`

merge_requests (**args, **kwargs*)
List the merge requests related to this milestone.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the list could not be retrieved

Returns The list of merge requests

Return type `RESTObjectList`

class `gitlab.v4.objects.ProjectMilestoneManager` (*gl, parent=None*)
Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectNote` (*manager, attrs*)
Bases: `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectNoteManager` (*gl, parent=None*)
Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectNotificationSettings` (*manager, attrs*)
Bases: `gitlab.v4.objects.NotificationSettings`

class `gitlab.v4.objects.ProjectNotificationSettingsManager` (*gl, parent=None*)
Bases: `gitlab.v4.objects.NotificationSettingsManager`

class `gitlab.v4.objects.ProjectPipeline` (*manager, attrs*)
Bases: `gitlab.base.RESTObject`

cancel (**args, **kwargs*)
Cancel the job.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabPipelineCancelError` – If the request failed

retry (**args, **kwargs*)
Retry the job.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabPipelineRetryError` – If the request failed

class `gitlab.v4.objects.ProjectPipelineManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`

create (*data*, ***kwargs*)

Creates a new object.

Parameters

- **data** (*dict*) – Parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the server (e.g. `sudo`)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server cannot perform the request

Returns

A new instance of the managed object class build with the data sent by the server

Return type `RESTObject`

class `gitlab.v4.objects.ProjectProtectedBranch` (*manager*, *attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectProtectedBranchManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectRunner` (*manager*, *attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectRunnerManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.NoUpdateMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectService` (*manager*, *attrs*)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectServiceManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.GetMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

available (**args*, ***kwargs*)

List the services known by python-gitlab.

Returns The list of service code names.

Return type `list` (*str*)

get (*id*, ***kwargs*)

Retrieve a single object.

Parameters

- **id** (*int* or *str*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.

- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns The generated RESTObject.

Return type object

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

update (*id=None, new_data={}, **kwargs*)

Update an object on the server.

Parameters

- **id** – ID of the object to update (can be None if not required)
- **new_data** – the update data for the object
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns The new object data (*not* a RESTObject)

Return type dict

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUpdateError` – If the server cannot perform the request

class `gitlab.v4.objects.ProjectSnippet` (*manager, attrs*)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

content (**args, **kwargs*)

Return the content of a snippet.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the content could not be retrieved

Returns The snippet content

Return type str

class `gitlab.v4.objects.ProjectSnippetManager` (*gl, parent=None*)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectSnippetNote` (*manager, attrs*)

Bases: `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectSnippetNoteManager` (*gl, parent=None*)
 Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectTag` (*manager, attrs*)
 Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

set_release_description (**args, **kwargs*)
 Set the release notes on the tag.

If the release doesn't exist yet, it will be created. If it already exists, its description will be updated.

Parameters

- **description** (*str*) – Description of the release.
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server fails to create the release
- `GitlabUpdateError` – If the server fails to update the release

class `gitlab.v4.objects.ProjectTagManager` (*gl, parent=None*)
 Bases: `gitlab.mixins.GetFromListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectTrigger` (*manager, attrs*)
 Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

take_ownership (**args, **kwargs*)
 Update the owner of a trigger.

class `gitlab.v4.objects.ProjectTriggerManager` (*gl, parent=None*)
 Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.ProjectVariable` (*manager, attrs*)
 Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.ProjectVariableManager` (*gl, parent=None*)
 Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.Runner` (*manager, attrs*)
 Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.RunnerManager` (*gl, parent=None*)
 Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

all (**args, **kwargs*)
 List all the runners.

Parameters

- **scope** (*str*) – The scope of runners to show, one of: specific, shared, active, paused, online
- **all** (*bool*) – If True, return all the items, without pagination

- **per_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as_list** (*bool*) – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the server failed to perform the request

Returns a list of runners matching the scope.

Return type *list(Runner)*

class `gitlab.v4.objects.SidekiqManager` (*gl, parent=None*)

Bases: `gitlab.base.RESTManager`

Manager for the Sidekiq methods.

This manager doesn't actually manage objects but provides helper function for the sidekiq metrics API.

compound_metrics (**args, **kwargs*)

Return all available metrics and statistics.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the information couldn't be retrieved

Returns All available Sidekiq metrics and statistics

Return type dict

job_stats (**args, **kwargs*)

Return statistics about the jobs performed.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the information couldn't be retrieved

Returns Statistics about the Sidekiq jobs performed

Return type dict

process_metrics (**args, **kwargs*)

Return the registred sidekiq workers.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the information couldn't be retrieved

Returns Information about the register Sidekiq worker

Return type dict

queue_metrics (*args, **kwargs)

Return the registred queues information.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the information couldn't be retrieved

Returns Information about the Sidekiq queues

Return type dict

class `gitlab.v4.objects.Snippet` (*manager, attrs*)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

content (*args, **kwargs)

Return the content of a snippet.

Parameters

- **streamed** (*bool*) – If True the data will be processed by chunks of *chunk_size* and each chunk is passed to *action* for treatment.
- **action** (*callable*) – Callable responsible of dealing with chunk of data
- **chunk_size** (*int*) – Size of each chunk
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the content could not be retrieved

Returns The snippet content

Return type str

class `gitlab.v4.objects.SnippetManager` (*gl, parent=None*)

Bases: `gitlab.mixins.CRUDMixin`, `gitlab.base.RESTManager`

public (*args, **kwargs)

List all the public snippets.

Parameters

- **all** (*bool*) – If True the returned object will be a list
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises `GitlabListError` – If the list could not be retrieved

Returns A generator for the snippets list

Return type `RESTObjectList`

class `gitlab.v4.objects.TODO` (*manager, attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

mark_as_done (*args, **kwargs)

Mark the todo as done.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTodoError` – If the server failed to perform the request

class `gitlab.v4.objects.TodoManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.GetFromListMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

mark_all_as_done (**args*, ***kwargs*)

Mark all the todos as done.

Parameters ***kwargs* – Extra options to send to the server (e.g. `sudo`)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTodoError` – If the server failed to perform the request

Returns The number of todos made done

Return type `int`

class `gitlab.v4.objects.User` (*manager*, *attrs*)

Bases: `gitlab.mixins.SaveMixin`, `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

block (**args*, ***kwargs*)

Block the user.

Parameters ***kwargs* – Extra options to send to the server (e.g. `sudo`)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabBlockError` – If the user could not be blocked

Returns Whether the user status has been changed

Return type `bool`

unblock (**args*, ***kwargs*)

Unblock the user.

Parameters ***kwargs* – Extra options to send to the server (e.g. `sudo`)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUnblockError` – If the user could not be unblocked

Returns Whether the user status has been changed

Return type `bool`

class `gitlab.v4.objects.UserEmail` (*manager*, *attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`

class `gitlab.v4.objects.UserEmailManager` (*gl*, *parent=None*)

Bases: `gitlab.mixins.RetrieveMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`, `gitlab.base.RESTManager`

class `gitlab.v4.objects.UserKey` (*manager*, *attrs*)

Bases: `gitlab.mixins.ObjectDeleteMixin`, `gitlab.base.RESTObject`


```

class gitlab.v4.objects.UserKeyManager (gl, parent=None)
    Bases: gitlab.mixins.GetFromListMixin, gitlab.mixins.CreateMixin, gitlab.
           mixins.DeleteMixin, gitlab.base.RESTManager

class gitlab.v4.objects.UserManager (gl, parent=None)
    Bases: gitlab.mixins.CRUDMixin, gitlab.base.RESTManager

class gitlab.v4.objects.UserProject (manager, attrs)
    Bases: gitlab.base.RESTObject

class gitlab.v4.objects.UserProjectManager (gl, parent=None)
    Bases: gitlab.mixins.CreateMixin, gitlab.base.RESTManager

```

Module contents

Submodules

gitlab.base module

```

class gitlab.base.BaseManager (gl, parent=None, args=[])
    Bases: object

```

Base manager class for API operations.

Managers provide method to manage GitLab API objects, such as retrieval, listing, creation.

Inherited class must define the `obj_cls` attribute.

obj_cls

class – class of objects wrapped by this manager.

```
create (data, **kwargs)
```

Create a new object of class *obj_cls*.

Parameters

- **data** (*dict*) – The parameters to send to the GitLab server to create the object. Required and optional arguments are defined in the *requiredCreateAttrs* and *optionalCreateAttrs* of the *obj_cls* class.
- ****kwargs** – Additional arguments to send to GitLab.

Returns A newly create *obj_cls* object.

Return type object

Raises

- `NotImplementedError` – If objects cannot be created.
- `GitlabCreateError` – If the server fails to perform the request.

```
delete (id, **kwargs)
```

Delete a GitLab object.

Parameters **id** – ID of the object to delete.

Raises

- `NotImplementedError` – If objects cannot be deleted.
- `GitlabDeleteError` – If the server fails to perform the request.

get (*id=None, **kwargs*)

Get a GitLab object.

Parameters

- **id** – ID of the object to retrieve.
- ****kwargs** – Additional arguments to send to GitLab.

Returns An object of class *obj_cls*.

Return type object

Raises

- `NotImplementedError` – If objects cannot be retrieved.
- `GitlabGetError` – If the server fails to perform the request.

list (***kwargs*)

Get a list of GitLab objects.

Parameters ****kwargs** – Additional arguments to send to GitLab.

Returns A list of *obj_cls* objects.

Return type *list*[object]

Raises

- `NotImplementedError` – If objects cannot be listed.
- `GitlabListError` – If the server fails to perform the request.

obj_cls = None

class `gitlab.base.GitlabObject` (*gl, data=None, **kwargs*)

Bases: object

Base class for all classes that interface with GitLab.

save (***kwargs*)

Send the modified object to the GitLab server. The following attributes are sent:

Available keys for *kwargs* are:

- `sudo` (string or int): run the request as another user (requires admin permissions)

as_dict ()

Dump the object as a dict.

canCreate = True

Tells if GitLab-api allows creation of new objects.

canDelete = True

Tells if GitLab-api allows deleting object.

canGet = True

Tells if GitLab-api allows retrieving single objects.

canList = True

Tells if GitLab-api allows listing of objects.

canUpdate = True

Tells if GitLab-api allows updating object.

classmethod `create` (*gl, data, **kwargs*)

Create an object.

Parameters

- **gl** (`gitlab.Gitlab`) – Gitlab object referencing the GitLab server.
- **data** (`dict`) – The data used to define the object.

Returns The new object.

Return type object

Raises

- `NotImplementedError` – If objects can't be created.
- `GitlabCreateError` – If the server cannot perform the request.

delete (***kwargs*)

display (*pretty*)

classmethod get (*gl, id, **kwargs*)

Retrieve a single object.

Parameters

- **gl** (`gitlab.Gitlab`) – Gitlab object referencing the GitLab server.
- **id** (`int` or `str`) – ID of the object to retrieve.

Returns The found GitLab object.

Return type object

Raises

- `NotImplementedError` – If objects can't be retrieved.
- `GitlabGetError` – If the server cannot perform the request.

getRequiresId = True

Whether the object ID is required in the GET url.

gitlab = None

(`gitlab.Gitlab`) – Gitlab connection.

idAttr = 'id'

Name of the identifier of an object.

json ()

Dump the object as json.

Returns The json string.

Return type str

classmethod list (*gl, **kwargs*)

Retrieve a list of objects from GitLab.

Parameters

- **gl** (`gitlab.Gitlab`) – Gitlab object referencing the GitLab server.
- **per_page** (`int`) – Maximum number of items to return.
- **page** (`int`) – ID of the page to return when using pagination.

Returns A list of objects.

Return type `list`[object]

Raises

- `NotImplementedError` – If objects can't be listed.
- `GitlabListError` – If the server cannot perform the request.

managers = []

List of managers to create.

optionalCreateAttrs = []

Attributes that are optional when creating a new object.

optionalGetAttrs = []

Attributes that are optional when retrieving single object.

optionalListAttrs = []

Attributes that are optional when retrieving list of objects.

optionalUpdateAttrs = []

Attributes that are optional when updating an object.

pretty_print (*depth=0*)

Print the object on the standard output (verbose).

Parameters *depth* (*int*) – Used internally for recursive call.**requiredCreateAttrs** = []

Attributes that are required when creating a new object.

requiredDeleteAttrs = []

Attributes that are required when deleting object.

requiredGetAttrs = []

Attributes that are required when retrieving single object.

requiredListAttrs = []

Attributes that are required when retrieving list of objects.

requiredUpdateAttrs = []

Attributes that are required when updating an object.

requiredUrlAttrs = []

Attributes that are required for constructing url.

save (***kwargs*)**shortPrintAttr** = None

Attribute to use as ID when displaying the object.

short_print (*depth=0*)

Print the object on the standard output (verbose).

Parameters *depth* (*int*) – Used internally for recursive call.**class** `gitlab.base.RESTManager` (*gl*, *parent=None*)Bases: `object`

Base class for CRUD operations on objects.

Derivated class must define `_path` and `_obj_cls`.`_path`: Base URL path on which requests will be sent (e.g. `‘/projects’`) `_obj_cls`: The class of objects that will be created**parent_attrs**

path

class gitlab.base.**RESTObject** (*manager, attrs*)

Bases: object

Represents an object built from server data.

It holds the attributes know from te server, and the updated attributes in another. This allows smart updates, if the object allows it.

You can redefine `_id_attr` in child classes to specify which attribute must be used as uniq ID. `None` means that the object can be updated without ID in the url.

attributes

get_id()

Returns the id of the resource.

class gitlab.base.**RESTObjectList** (*manager, obj_cls, _list*)

Bases: object

Generator object representing a list of RESTObject's.

This generator uses the Gitlab pagination system to fetch new data when required.

Note: you should not instanciate such objects, they are returned by calls to `RESTManager.list()`

Parameters

- **manager** – Manager to attach to the created objects
- **obj_cls** – Type of objects to create from the json data
- **_list** – A GitlabList object

next()

class gitlab.base.**jsonEncoder** (*skipkeys=False, ensure_ascii=True, check_circular=True, allow_nan=True, sort_keys=False, indent=None, separators=None, encoding='utf-8', default=None*)

Bases: json.encoder.JSONEncoder

default (*obj*)

gitlab.cli module

gitlab.cli.**cls_to_what** (*cls*)

gitlab.cli.**die** (*msg, e=None*)

gitlab.cli.**main** ()

gitlab.cli.**register_custom_action** (*cls_names, mandatory=(), optional=()*)

gitlab.cli.**what_to_cls** (*what*)

gitlab.config module

exception gitlab.config.**ConfigError**

Bases: exceptions.Exception

class `gitlab.config.GitlabConfigParser` (*gitlab_id=None, config_files=None*)
Bases: `object`

exception `gitlab.config.GitlabDataError`
Bases: `gitlab.config.ConfigError`

exception `gitlab.config.GitlabIDError`
Bases: `gitlab.config.ConfigError`

gitlab.const module

gitlab.exceptions module

exception `gitlab.exceptions.GitlabAuthenticationError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabError`

exception `gitlab.exceptions.GitlabBlockError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabBuildCancelError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabCancelError`

exception `gitlab.exceptions.GitlabBuildEraseError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabRetryError`

exception `gitlab.exceptions.GitlabBuildPlayError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabRetryError`

exception `gitlab.exceptions.GitlabBuildRetryError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabRetryError`

exception `gitlab.exceptions.GitlabCancelError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabCherryPickError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabConnectionError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabError`

exception `gitlab.exceptions.GitlabCreateError` (*error_message='', response_code=None, response_body=None*)
Bases: `gitlab.exceptions.GitlabOperationError`

```

exception gitlab.exceptions.GitlabDeleteError (error_message='', response_code=None, re-
                                             sponse_body=None)
    Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabError (error_message='', response_code=None, re-
                                             sponse_body=None)
    Bases: exceptions.Exception

exception gitlab.exceptions.GitlabGetError (error_message='', response_code=None, re-
                                             sponse_body=None)
    Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabHttpError (error_message='', response_code=None, re-
                                             sponse_body=None)
    Bases: gitlab.exceptions.GitlabError

exception gitlab.exceptions.GitlabJobCancelError (error_message='', response_code=None,
                                                    response_body=None)
    Bases: gitlab.exceptions.GitlabCancelError

exception gitlab.exceptions.GitlabJobEraseError (error_message='', response_code=None,
                                                    response_body=None)
    Bases: gitlab.exceptions.GitlabRetryError

exception gitlab.exceptions.GitlabJobPlayError (error_message='', response_code=None,
                                                    response_body=None)
    Bases: gitlab.exceptions.GitlabRetryError

exception gitlab.exceptions.GitlabJobRetryError (error_message='', response_code=None,
                                                    response_body=None)
    Bases: gitlab.exceptions.GitlabRetryError

exception gitlab.exceptions.GitlabListError (error_message='', response_code=None, re-
                                             sponse_body=None)
    Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabMRClosedError (error_message='', response_code=None,
                                                    response_body=None)
    Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabMRForbiddenError (error_message='', response_code=None, re-
                                                    sponse_code=None, re-
                                                    sponse_body=None)
    Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabMROnBuildSuccessError (error_message='', response_code=None, re-
                                                    sponse_code=None, re-
                                                    sponse_body=None)
    Bases: gitlab.exceptions.GitlabOperationError

exception gitlab.exceptions.GitlabOperationError (error_message='', response_code=None,
                                                    response_body=None)
    Bases: gitlab.exceptions.GitlabError

exception gitlab.exceptions.GitlabParsingError (error_message='', response_code=None,
                                                    response_body=None)
    Bases: gitlab.exceptions.GitlabError

exception gitlab.exceptions.GitlabPipelineCancelError (error_message='', response_code=None, re-
                                                    sponse_code=None, re-
                                                    sponse_body=None)
    Bases: gitlab.exceptions.GitlabCancelError

```

exception `gitlab.exceptions.GitlabPipelineRetryError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabRetryError`

exception `gitlab.exceptions.GitlabProjectDeployKeyError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabProtectError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabRetryError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabSubscribeError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabTimeTrackingError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabTodoError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabTransferProjectError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabUnblockError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabUnsubscribeError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

exception `gitlab.exceptions.GitlabUpdateError` (`error_message=''`, `response_code=None`, `response_body=None`)

Bases: `gitlab.exceptions.GitlabOperationError`

`gitlab.exceptions.on_http_error` (`error`)

Manage `GitlabHttpError` exceptions.

This decorator function can be used to catch `GitlabHttpError` exceptions raise specialized exceptions instead.

Parameters `error` (*Exception*) – The exception type to raise – must inherit from `GitlabError`

`gitlab.exceptions.raise_error_from_response` (`response`, `error`, `expected_code=200`)

Tries to parse gitlab error message from response and raises error.

Do nothing if the response status is the expected one.

If response status code is 401, raises instead `GitlabAuthenticationError`.

Parameters

- **response** – requests response object
- **error** – Error-class or dict {return-code => class} of possible error class to raise. Should be inherited from GitLabError

gitlab.mixins module

class `gitlab.mixins.AccessRequestMixin`

Bases: `object`

approve (**args, **kwargs*)

Approve an access request.

Parameters

- **access_level** (*int*) – The access level for the user
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUpdateError` – If the server fails to perform the request

class `gitlab.mixins.CRUDMixin`

Bases: `gitlab.mixins.GetMixin`, `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.UpdateMixin`, `gitlab.mixins.DeleteMixin`

class `gitlab.mixins.CreateMixin`

Bases: `object`

create (**args, **kwargs*)

Create a new object.

Parameters

- **data** (*dict*) – parameters to send to the server to create the resource
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns

a new instance of the managed object class built with the data sent by the server

Return type *RESTObject*

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabCreateError` – If the server cannot perform the request

get_create_attrs ()

Return the required and optional arguments.

Returns

2 items: list of required arguments and list of optional arguments for creation (in that order)

Return type `tuple`

class `gitlab.mixins.DeleteMixin`

Bases: `object`

delete (*args, **kwargs)

Delete an object on the server.

Parameters

- **id** – ID of the object to delete
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabDeleteError` – If the server cannot perform the request

class `gitlab.mixins.GetFromListMixin`

Bases: `gitlab.mixins.ListMixin`

get (*id*, **kwargs)

Retrieve a single object.

Parameters

- **id** (*int or str*) – ID of the object to retrieve
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns The generated RESTObject

Return type object

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

class `gitlab.mixins.GetMixin`

Bases: object

get (*args, **kwargs)

Retrieve a single object.

Parameters

- **id** (*int or str*) – ID of the object to retrieve
- **lazy** (*bool*) – If True, don't request the server, but create a shallow object giving access to the managers. This is useful if you want to avoid useless calls to the API.
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns The generated RESTObject.

Return type object

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

class `gitlab.mixins.GetWithoutIdMixin`

Bases: object

get (*args, **kwargs)

Retrieve a single object.

Parameters ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns The generated RESTObject

Return type object

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabGetError` – If the server cannot perform the request

class `gitlab.mixins.ListMixin`

Bases: object

list (**args, **kwargs*)

Retrieve a list of objects.

Parameters

- **all** (*bool*) – If True, return all the items, without pagination
- **per_page** (*int*) – Number of items to retrieve per request
- **page** (*int*) – ID of the page to return (starts with page 1)
- **as_list** (*bool*) – If set to False and no pagination option is defined, return a generator instead of a list
- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns The list of objects, or a generator if *as_list* is False

Return type *list*

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabListError` – If the server cannot perform the request

class `gitlab.mixins.NoUpdateMixin`

Bases: `gitlab.mixins.GetMixin`, `gitlab.mixins.ListMixin`, `gitlab.mixins.CreateMixin`, `gitlab.mixins.DeleteMixin`

class `gitlab.mixins.ObjectDeleteMixin`

Bases: object

Mixin for RESTObject's that can be deleted.

delete (***kwargs*)

Delete the object from the server.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabDeleteError` – If the server cannot perform the request

class `gitlab.mixins.RetrieveMixin`

Bases: `gitlab.mixins.ListMixin`, `gitlab.mixins.GetMixin`

class `gitlab.mixins.SaveMixin`

Bases: object

Mixin for RESTObject's that can be updated.

save (***kwargs*)

Save the changes made to the object to the server.

The object is updated to match what the server returns.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raise: `GitlabAuthenticationError`: If authentication is not correct `GitlabUpdateError`: If the server cannot perform the request

class `gitlab.mixins.SubscribableMixin`

Bases: `object`

subscribe (**args, **kwargs*)

Subscribe to the object notifications.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabSubscribeError` – If the subscription cannot be done

unsubscribe (**args, **kwargs*)

Unsubscribe from the object notifications.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUnsubscribeError` – If the unsubscription cannot be done

class `gitlab.mixins.TimeTrackingMixin`

Bases: `object`

add_spent_time (**args, **kwargs*)

Add time spent working on the object.

Parameters

- **duration** (*str*) – Duration in human format (e.g. 3h30)
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTimeTrackingError` – If the time tracking update cannot be done

reset_spent_time (**args, **kwargs*)

Resets the time spent working on the object.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTimeTrackingError` – If the time tracking update cannot be done

reset_time_estimate (**args, **kwargs*)

Resets estimated time for the object to 0 seconds.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTimeTrackingError` – If the time tracking update cannot be done

time_estimate (*args, **kwargs)

Set an estimated time of work for the object.

Parameters

- **duration** (*str*) – Duration in human format (e.g. 3h30)
- ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTimeTrackingError` – If the time tracking update cannot be done

time_stats (*args, **kwargs)

Get time stats for the object.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTimeTrackingError` – If the time tracking update cannot be done

class `gitlab.mixins.TodoMixin`

Bases: `object`

todo (*args, **kwargs)

Create a todo associated to the object.

Parameters ****kwargs** – Extra options to send to the server (e.g. sudo)

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabTodoError` – If the todo cannot be set

class `gitlab.mixins.UpdateMixin`

Bases: `object`

get_update_attrs ()

Return the required and optional arguments.

Returns

2 items: list of required arguments and list of optional arguments for update (in that order)

Return type tuple

update (*args, **kwargs)

Update an object on the server.

Parameters

- **id** – ID of the object to update (can be None if not required)
- **new_data** – the update data for the object

- ****kwargs** – Extra options to send to the Gitlab server (e.g. sudo)

Returns The new object data (*not* a RESTObject)

Return type dict

Raises

- `GitlabAuthenticationError` – If authentication is not correct
- `GitlabUpdateError` – If the server cannot perform the request

gitlab.utils module

`gitlab.utils.response_content` (*response, streamed, action, chunk_size*)

Module contents

Wrapper for the GitLab API.

```
class gitlab.Gitlab(url, private_token=None, email=None, password=None, ssl_verify=True,
                  http_username=None, http_password=None, timeout=None, api_version='3',
                  session=None)
```

Bases: `object`

Represents a GitLab server connection.

Parameters

- **url** (*str*) – The URL of the GitLab server.
- **private_token** (*str*) – The user private token
- **email** (*str*) – The user email or login.
- **password** (*str*) – The user password (associated with email).
- **ssl_verify** (*bool*) – Whether SSL certificates should be validated.
- **timeout** (*float*) – Timeout to use for requests to the GitLab server.
- **http_username** (*str*) – Username for HTTP authentication
- **http_password** (*str*) – Password for HTTP authentication
- **api_version** (*str*) – Gitlab API version to use (3 or 4)

broadcastmessages

<class 'gitlab.v3.objects.BroadcastMessageManager'> manager for <class 'gitlab.v3.objects.BroadcastMessage'> objects.

deploykeys

<class 'gitlab.v3.objects.DeployKeyManager'> manager for <class 'gitlab.v3.objects.DeployKey'> objects.

gitignores

<class 'gitlab.v3.objects.GitignoreManager'> manager for <class 'gitlab.v3.objects.Gitignore'> objects.

gitlabciyaml

<class 'gitlab.v3.objects.GitlabciyamlManager'> manager for <class 'gitlab.v3.objects.Gitlabciyaml'> objects.

group_accessrequests

<class 'gitlab.v3.objects.GroupAccessRequestManager'> manager for <class 'gitlab.v3.objects.GroupAccessRequest'> objects.

group_issues

<class 'gitlab.v3.objects.GroupIssueManager'> manager for <class 'gitlab.v3.objects.GroupIssue'> objects.

group_members

<class 'gitlab.v3.objects.GroupMemberManager'> manager for <class 'gitlab.v3.objects.GroupMember'> objects.

group_notificationsettings

<class 'gitlab.v3.objects.GroupNotificationSettingsManager'> manager for <class 'gitlab.v3.objects.GroupNotificationSettings'> objects.

group_project_accessrequests

<class 'gitlab.v3.objects.ProjectAccessRequestManager'> manager for <class 'gitlab.v3.objects.ProjectAccessRequest'> objects.

group_project_board_lists

<class 'gitlab.v3.objects.ProjectBoardListManager'> manager for <class 'gitlab.v3.objects.ProjectBoardList'> objects.

group_project_boards

<class 'gitlab.v3.objects.ProjectBoardManager'> manager for <class 'gitlab.v3.objects.ProjectBoard'> objects.

group_project_branches

<class 'gitlab.v3.objects.ProjectBranchManager'> manager for <class 'gitlab.v3.objects.ProjectBranch'> objects.

group_project_builds

<class 'gitlab.v3.objects.ProjectBuildManager'> manager for <class 'gitlab.v3.objects.ProjectBuild'> objects.

group_project_commits

<class 'gitlab.v3.objects.ProjectCommitManager'> manager for <class 'gitlab.v3.objects.ProjectCommit'> objects.

group_project_deployments

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<class 'gitlab.v3.objects.ProjectEnvironmentManager'> manager for <class 'gitlab.v3.objects.ProjectEnvironment'> objects.

group_project_events

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group_project_files

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group_project_forks

<class 'gitlab.v3.objects.ProjectForkManager'> manager for <class 'gitlab.v3.objects.ProjectFork'> objects.

group_project_hooks

<class 'gitlab.v3.objects.ProjectHookManager'> manager for <class 'gitlab.v3.objects.ProjectHook'> objects.

group_project_issues

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group_project_keys

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group_project_labels

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group_project_members

<class 'gitlab.v3.objects.ProjectMemberManager'> manager for <class 'gitlab.v3.objects.ProjectMember'> objects.

group_project_mergerequests

<class 'gitlab.v3.objects.ProjectMergeRequestManager'> manager for <class 'gitlab.v3.objects.ProjectMergeRequest'> objects.

group_project_milestones

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group_project_notes

<class 'gitlab.v3.objects.ProjectNoteManager'> manager for <class 'gitlab.v3.objects.ProjectNote'> objects.

group_project_notificationsettings

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group_project_pipelines

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group_project_runners

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group_project_services

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group_project_snippets

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group_project_triggers

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group_project_variables

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group_projects

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groups

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hooks

<class 'gitlab.v3.objects.HookManager'> manager for <class 'gitlab.v3.objects.Hook'> objects.

issues

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keys

<class 'gitlab.v3.objects.KeyManager'> manager for <class 'gitlab.v3.objects.Key'> objects.

licenses

<class 'gitlab.v3.objects.LicenseManager'> manager for <class 'gitlab.v3.objects.License'> objects.

namespaces

<class 'gitlab.v3.objects.NamespaceManager'> manager for <class 'gitlab.v3.objects.Namespace'> objects.

notificationsettings

<class 'gitlab.v3.objects.NotificationSettingsManager'> manager for <class 'gitlab.v3.objects.NotificationSettings'> objects.

project_accessrequests

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project_board_lists

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project_builds

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project_commit_comments

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project_commit_statuses

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project_commits

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project_issue_notes

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project_labels

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project_members

<class 'gitlab.v3.objects.ProjectMemberManager'> manager for <class 'gitlab.v3.objects.ProjectMember'> objects.

project_mergerequest_diffs

<class 'gitlab.v3.objects.ProjectMergeRequestDiffManager'> manager for <class 'gitlab.v3.objects.ProjectMergeRequestDiff'> objects.

project_mergerequest_notes

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project_mergerequests

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project_milestones

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project_notes

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project_notificationsettings

<class 'gitlab.v3.objects.ProjectNotificationSettingsManager'> manager for <class 'gitlab.v3.objects.ProjectNotificationSettings'> objects.

project_pipelines

<class 'gitlab.v3.objects.ProjectPipelineManager'> manager for <class 'gitlab.v3.objects.ProjectPipeline'> objects.

project_runners

<class 'gitlab.v3.objects.ProjectRunnerManager'> manager for <class 'gitlab.v3.objects.ProjectRunner'> objects.

project_services

<class 'gitlab.v3.objects.ProjectServiceManager'> manager for <class 'gitlab.v3.objects.ProjectService'> objects.

project_snippet_notes

<class 'gitlab.v3.objects.ProjectSnippetNoteManager'> manager for <class 'gitlab.v3.objects.ProjectSnippetNote'> objects.

project_snippets

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project_tags

<class 'gitlab.v3.objects.ProjectTagManager'> manager for <class 'gitlab.v3.objects.ProjectTag'> objects.

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project_variables

<class 'gitlab.v3.objects.ProjectVariableManager'> manager for <class 'gitlab.v3.objects.ProjectVariable'> objects.

projects

<class 'gitlab.v3.objects.ProjectManager'> manager for <class 'gitlab.v3.objects.Project'> objects.

runners

<class 'gitlab.v3.objects.RunnerManager'> manager for <class 'gitlab.v3.objects.Runner'> objects.

settings

<class 'gitlab.v3.objects.ApplicationSettingsManager'> manager for <class 'gitlab.v3.objects.ApplicationSettings'> objects.

snippets

<class 'gitlab.v3.objects.SnippetManager'> manager for <class 'gitlab.v3.objects.Snippet'> objects.

team_members

<class 'gitlab.v3.objects.TeamMemberManager'> manager for <class 'gitlab.v3.objects.TeamMember'> objects.

team_projects

<class 'gitlab.v3.objects.TeamProjectManager'> manager for <class 'gitlab.v3.objects.TeamProject'> objects.

teams

<class 'gitlab.v3.objects.TeamManager'> manager for <class 'gitlab.v3.objects.Team'> objects.

todos

<class 'gitlab.v3.objects.TODOManager'> manager for <class 'gitlab.v3.objects.TODO'> objects.

user_emails

<class 'gitlab.v3.objects.UserEmailManager'> manager for <class 'gitlab.v3.objects.UserEmail'> objects.

user_keys

<class 'gitlab.v3.objects.UserKeyManager'> manager for <class 'gitlab.v3.objects.UserKey'> objects.

user_projects

<class 'gitlab.v3.objects.UserProjectManager'> manager for <class 'gitlab.v3.objects.UserProject'> objects.

users

<class 'gitlab.v3.objects.UserManager'> manager for <class 'gitlab.v3.objects.User'> objects.

api_version**auth()**

Performs an authentication.

Uses either the private token, or the email/password pair.

The *user* attribute will hold a *gitlab.objects.CurrentUser* object on success.

create(obj, **kwargs)

Create an object on the GitLab server.

The object class and attributes define the request to be made on the GitLab server.

Parameters

- **obj** (*object*) – The object to create.
- ****kwargs** – Additional arguments to send to GitLab.

Returns

A json representation of the object as returned by the GitLab server

Return type str**Raises**

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabCreateError` – If the server fails to perform the request.

credentials_auth()

Performs an authentication using email/password.

delete(obj, id=None, **kwargs)

Delete an object on the GitLab server.

Parameters

- **obj** (*object or id*) – The object, or the class of the object to delete. If it is the class, the id of the object must be specified as the *id* arguments.
- **id** – ID of the object to remove. Required if *obj* is a class.
- ****kwargs** – Additional arguments to send to GitLab.

Returns True if the operation succeeds.

Return type bool

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabDeleteError` – If the server fails to perform the request.

email = None

The user email

enable_debug()

static from_config (*gitlab_id=None, config_files=None*)

Create a Gitlab connection from configuration files.

Parameters

- **gitlab_id** (*str*) – ID of the configuration section.
- **list [str]** (*config_files*) – List of paths to configuration files.

Returns A Gitlab connection.

Return type (*gitlab.Gitlab*)

Raises *gitlab.config.GitlabDataError* – If the configuration is not correct.

get (*obj_class, id=None, **kwargs*)

Request a GitLab resources.

Parameters

- **obj_class** (*object*) – The class of resource to request.
- **id** – The object ID.
- ****kwargs** – Additional arguments to send to GitLab.

Returns An object of class *obj_class*.

Return type *obj_class*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabGetError` – If the server fails to perform the request.

headers = None

Headers that will be used in request to GitLab

http_delete (*path, **kwargs*)

Make a PUT request to the Gitlab server.

Parameters

- **path** (*str*) – Path or full URL to query ('/projects' or 'http://whatever/v4/api/projects')
- ****kwargs** – Extra data to make the query (e.g. sudo, per_page, page)

Returns The requests object.

Raises `GitlabHttpError` – When the return code is not 2xx

http_get (*path, query_data={}, streamed=False, **kwargs*)

Make a GET request to the Gitlab server.

Parameters

- **path** (*str*) – Path or full URL to query ('/projects' or 'http://whatever/v4/api/projects')
- **query_data** (*dict*) – Data to send as query parameters

- **streamed** (*bool*) – Whether the data should be streamed
- ****kwargs** – Extra data to make the query (e.g. `sudo`, `per_page`, `page`)

Returns A requests result object is streamed is True or the content type is not json. The parsed json data otherwise.

Raises

- `GitlabHttpError` – When the return code is not 2xx
- `GitlabParsingError` – If the json data could not be parsed

http_list (*path*, *query_data*=*{}*, *as_list*=*None*, ***kwargs*)

Make a GET request to the Gitlab server for list-oriented queries.

Parameters

- **path** (*str*) – Path or full URL to query (`/projects` or `http://whatever/v4/api/projects`)
- **query_data** (*dict*) – Data to send as query parameters
- ****kwargs** – Extra data to make the query (e.g. `sudo`, `per_page`, `page`, `all`)

Returns A list of the objects returned by the server. If *as_list* is False and no pagination-related arguments (*page*, *per_page*, *all*) are defined then a `GitlabList` object (generator) is returned instead. This object will make API calls when needed to fetch the next items from the server.

Return type *list*

Raises

- `GitlabHttpError` – When the return code is not 2xx
- `GitlabParsingError` – If the json data could not be parsed

http_post (*path*, *query_data*=*{}*, *post_data*=*{}*, ***kwargs*)

Make a POST request to the Gitlab server.

Parameters

- **path** (*str*) – Path or full URL to query (`/projects` or `http://whatever/v4/api/projects`)
- **query_data** (*dict*) – Data to send as query parameters
- **post_data** (*dict*) – Data to send in the body (will be converted to json)
- ****kwargs** – Extra data to make the query (e.g. `sudo`, `per_page`, `page`)

Returns The parsed json returned by the server if json is return, else the raw content

Raises

- `GitlabHttpError` – When the return code is not 2xx
- `GitlabParsingError` – If the json data could not be parsed

http_put (*path*, *query_data*=*{}*, *post_data*=*{}*, ***kwargs*)

Make a PUT request to the Gitlab server.

Parameters

- **path** (*str*) – Path or full URL to query (`/projects` or `http://whatever/v4/api/projects`)
- **query_data** (*dict*) – Data to send as query parameters
- **post_data** (*dict*) – Data to send in the body (will be converted to json)
- ****kwargs** – Extra data to make the query (e.g. `sudo`, `per_page`, `page`)

Returns The parsed json returned by the server.

Raises

- `GitlabHttpError` – When the return code is not 2xx
- `GitlabParsingError` – If the json data could not be parsed

http_request (*verb, path, query_data={}, post_data={}, streamed=False, **kwargs*)
Make an HTTP request to the Gitlab server.

Parameters

- **verb** (*str*) – The HTTP method to call ('get', 'post', 'put', 'delete')
- **path** (*str*) – Path or full URL to query ('/projects' or 'http://whatever/v4/api/projects')
- **query_data** (*dict*) – Data to send as query parameters
- **post_data** (*dict*) – Data to send in the body (will be converted to json)
- **streamed** (*bool*) – Whether the data should be streamed
- ****kwargs** – Extra data to make the query (e.g. sudo, per_page, page)

Returns A requests result object.

Raises `GitlabHttpError` – When the return code is not 2xx

list (*obj_class, **kwargs*)
Request the listing of GitLab resources.

Parameters

- **obj_class** (*object*) – The class of resource to request.
- ****kwargs** – Additional arguments to send to GitLab.

Returns A list of objects of class *obj_class*.

Return type *list(obj_class)*

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabListError` – If the server fails to perform the request.

password = None

The user password (associated with email)

session = None

Create a session object for requests

set_credentials (*email, password*)

Sets the email/login and password for authentication.

Parameters

- **email** (*str*) – The user email or login.
- **password** (*str*) – The user password.

set_token (*token*)

Sets the private token for authentication.

Parameters **token** (*str*) – The private token.

set_url (*url*)

Updates the GitLab URL.

Parameters **url** (*str*) – Base URL of the GitLab server.

ssl_verify = None

Whether SSL certificates should be validated

timeout = None

Timeout to use for requests to gitlab server

token_auth ()

Performs an authentication using the private token.

update (*obj*, ***kwargs*)

Update an object on the GitLab server.

The object class and attributes define the request to be made on the GitLab server.

Parameters

- **obj** (*object*) – The object to create.
- ****kwargs** – Additional arguments to send to GitLab.

Returns

A json representation of the object as returned by the GitLab server

Return type str

Raises

- `GitlabConnectionError` – If the server cannot be reached.
- `GitlabUpdateError` – If the server fails to perform the request.

version ()

Returns the version and revision of the gitlab server.

Note that `self.version` and `self.revision` will be set on the gitlab object.

Returns

The server version and server revision, or ('unknown', 'unknown') if the server doesn't support this API call (gitlab < 8.13.0)

Return type tuple (str, str)

class `gitlab.GitlabList` (*gl*, *url*, *query_data*, *get_next=True*, ***kwargs*)

Bases: `object`

Generator representing a list of remote objects.

The object handles the links returned by a query to the API, and will call the API again when needed.

next ()

This page describes important changes between python-gitlab releases.

Changes from 0.21 to 1.0.0

1.0.0 brings a stable python-gitlab API for the v4 Gitlab API. v3 is still used by default.

v4 is mostly compatible with the v3, but some important changes have been introduced. Make sure to read [Switching to GitLab API v4](#).

The development focus will be v4 from now on. v3 has been deprecated by GitLab and will disappear from python-gitlab at some point.

Changes from 0.20 to 0.21

- Initial support for the v4 API (experimental)

The support for v4 is stable enough to be tested, but some features might be broken. Please report issues to <https://github.com/python-gitlab/python-gitlab/issues/>

Be aware that the python-gitlab API for v4 objects might change in the next releases.

Warning: Consider defining explicitly which API version you want to use in the configuration files or in your `gitlab.Gitlab` instances. The default will change from v3 to v4 soon.

- Several methods have been deprecated in the `gitlab.Gitlab` class:
 - `credentials_auth()` is deprecated and will be removed. Call `auth()`.
 - `token_auth()` is deprecated and will be removed. Call `auth()`.
 - `set_url()` is deprecated, create a new `Gitlab` instance if you need an updated URL.

- `set_token()` is deprecated, use the `private_token` argument of the `Gitlab` constructor.
- `set_credentials()` is deprecated, use the `email` and `password` arguments of the `Gitlab` constructor.
- The service listing method (`ProjectServiceManager.list()`) now returns a python list instead of a JSON string.

Changes from 0.19 to 0.20

- The `projects` attribute of `Group` objects is not a list of `Project` objects anymore. It is a `Manager` object giving access to `GroupProject` objects. To get the list of projects use:

```
group.projects.list()
```

Documentation: http://python-gitlab.readthedocs.io/en/stable/gl_objects/groups.html#examples

Related issue: <https://github.com/python-gitlab/python-gitlab/issues/209>

- The `Key` objects are deprecated in favor of the new `DeployKey` objects. They are exactly the same but the name makes more sense.

Documentation: http://python-gitlab.readthedocs.io/en/stable/gl_objects/deploy_keys.html

Related issue: <https://github.com/python-gitlab/python-gitlab/issues/212>

Version 1.0.0 - 2017-09-08

- Support for API v4. See <http://python-gitlab.readthedocs.io/en/master/switching-to-v4.html>
- Support SSL verification via internal CA bundle
- Docs: Add link to gitlab docs on obtaining a token
- Added dependency injection support for Session
- Fixed repository_compare examples
- Fix changelog and release notes inclusion in sdist
- Missing expires_at in GroupMembers update
- Add lower-level methods for Gitlab()

Version 0.21.2 - 2017-06-11

- Install doc: use sudo for system commands
- [v4] Make MR work properly
- Remove extra_attrs argument from _raw_list
- [v4] Make project issues work properly
- Fix urlencode() usage (python 2/3) (#268)
- Fixed spelling mistake (#269)
- Add new event types to ProjectHook

Version 0.21.1 - 2017-05-25

- Fix the manager name for jobs in the Project class
- Fix the docs

Version 0.21 - 2017-05-24

- Add time_stats to ProjectMergeRequest
- Update User options for creation and update (#246)
- Add milestone.merge_requests() API
- Fix docs typo (s/correspnding/corresponding/)
- Support milestone start date (#251)
- Add support for priority attribute in labels (#256)
- Add support for nested groups (#257)
- Make GroupProjectManager a subclass of ProjectManager (#255)
- Available services: return a list instead of JSON (#258)
- MR: add support for time tracking features (#248)
- Fixed repository_tree and repository_blob path encoding (#265)
- Add 'search' attribute to projects.list()
- Initial gitlab API v4 support
- Reorganise the code to handle v3 and v4 objects
- Allow 202 as delete return code
- Deprecate parameter related methods in gitlab.Gitlab

Version 0.20 - 2017-03-25

- Add time tracking support (#222)
- Improve changelog (#229, #230)
- Make sure that manager objects are never overwritten (#209)
- Include chanlog and release notes in docs
- Add DeployKey{,Manager} classes (#212)
- Add support for merge request notes deletion (#227)
- Properly handle extra args when listing with all=True (#233)
- Implement pipeline creation API (#237)
- Fix spent_time methods
- Add 'delete source branch' option when creating MR (#241)
- Provide API wrapper for cherry picking commits (#236)

- Stop listing if recursion limit is hit (#234)

Version 0.19 - 2017-02-21

- Update project.archive() docs
- Support the scope attribute in runners.list()
- Add support for project runners
- Add support for commit creation
- Fix install doc
- Add builds-email and pipelines-email services
- Deploy keys: rework enable/disable
- Document the dynamic aspect of objects
- Add pipeline_events to ProjectHook attrs
- Add due_date attribute to ProjectIssue
- Handle settings.domain_whitelist, partly
- {Project,Group}Member: support expires_at attribute

Version 0.18 - 2016-12-27

- Fix JIRA service editing for GitLab 8.14+
- Add jira_issue_transition_id to the JIRA service optional fields
- Added support for Snippets (new API in Gitlab 8.15)
- [docs] update pagination section
- [docs] artifacts example: open file in wb mode
- [CLI] ignore empty arguments
- [CLI] Fix wrong use of arguments
- [docs] Add doc for snippets
- Fix duplicated data in API docs
- Update known attributes for projects
- sudo: always use strings

Version 0.17 - 2016-12-02

- README: add badges for pypi and RTD
- Fix ProjectBuild.play (raised error on success)
- Pass kwargs to the object factory
- Add .tox to ignore to respect default tox settings

- Convert response list to single data source for iid requests
- Add support for boards API
- Add support for Gitlab.version()
- Add support for broadcast messages API
- Add support for the notification settings API
- Don't overwrite attributes returned by the server
- Fix bug when retrieving changes for merge request
- Feature: enable / disable the deploy key in a project
- Docs: add a note for python 3.5 for file content update
- ProjectHook: support the token attribute
- Rework the API documentation
- Fix docstring for http_{username,password}
- Build managers on demand on GitlabObject's
- API docs: add managers doc in GitlabObject's
- Sphinx ext: factorize the build methods
- Implement __repr__ for gitlab objects
- Add a 'report a bug' link on doc
- Remove deprecated methods
- Implement merge requests diff support
- Make the manager objects creation more dynamic
- Add support for templates API
- Add attr 'created_at' to ProjectIssueNote
- Add attr 'updated_at' to ProjectIssue
- CLI: add support for project all -all
- Add support for triggering a new build
- Rework requests arguments (support latest requests release)
- Fix *should_remove_source_branch*

Version 0.16 - 2016-10-16

- Add the ability to fork to a specific namespace
- JIRA service - add api_url to optional attributes
- Fix bug: Missing coma concatenates array values
- docs: branch protection notes
- Create a project in a group
- Add only_allow_merge_if_build_succeeds option to project objects

- Add support for `--all` in CLI
- Fix examples for file modification
- Use the plural `merge_requests` URL everywhere
- Rework travis and tox setup
- Workaround gitlab setup failure in tests
- Add `ProjectBuild.erase()`
- Implement `ProjectBuild.play()`

Version 0.15.1 - 2016-10-16

- docs: improve the pagination section
- Fix and test pagination
- `'path'` is an existing gitlab attr, don't use it as method argument

Version 0.15 - 2016-08-28

- Add a basic HTTP debug method
- Run more tests in travis
- Fix fork creation documentation
- Add more API examples in docs
- Update the `ApplicationSettings` attributes
- Implement the todo API
- Add sidekiq metrics support
- Move the constants at the gitlab root level
- Remove methods marked as deprecated 7 months ago
- Refactor the `Gitlab` class
- Remove `_get_list_or_object()` and its tests
- Fix `canGet` attribute (typo)
- Remove unused `ProjectTagReleaseManager` class
- Add support for project services API
- Add support for project pipelines
- Add support for access requests
- Add support for project deployments

Version 0.14 - 2016-08-07

- Remove 'next_url' from kwargs before passing it to the cls constructor.
- List projects under group
- Add support for subscribe and unsubscribe in issues
- Project issue: doc and CLI for (un)subscribe
- Added support for HTTP basic authentication
- Add support for build artifacts and trace
- -title is a required argument for ProjectMilestone
- Commit status: add optional context url
- Commit status: optional get attrs
- Add support for commit comments
- Issues: add optional listing parameters
- Issues: add missing optional listing parameters
- Project issue: proper update attributes
- Add support for project-issue move
- Update ProjectLabel attributes
- Milestone: optional listing attrs
- Add support for namespaces
- Add support for label (un)subscribe
- MR: add (un)subscribe support
- Add *note_events* to project hooks attributes
- Add code examples for a bunch of resources
- Implement user emails support
- Project: add VISIBILITY_* constants
- Fix the Project.archive call
- Implement archive/unarchive for a projet
- Update ProjectSnippet attributes
- Fix ProjectMember update
- Implement sharing project with a group
- Implement CLI for project archive/unarchive/share
- Implement runners global API
- Gitlab: add managers for build-related resources
- Implement ProjectBuild.keep_artifacts
- Allow to stream the downloads when appropriate
- Groups can be updated

- Replace Snippet.Content() with a new content() method
- CLI: refactor _die()
- Improve commit statuses and comments
- Add support from listing group issues
- Added a new project attribute to enable the container registry.
- Add a contributing section in README
- Add support for global deploy key listing
- Add support for project environments
- MR: get list of changes and commits
- Fix the listing of some resources
- MR: fix updates
- Handle empty messages from server in exceptions
- MR (un)subscribe: don't fail if state doesn't change
- MR merge(): update the object

Version 0.13 - 2016-05-16

- Add support for MergeRequest validation
- MR: add support for cancel_merge_when_build_succeeds
- MR: add support for closes_issues
- Add “external” parameter for users
- Add deletion support for issues and MR
- Add missing group creation parameters
- Add a Session instance for all HTTP requests
- Enable updates on ProjectIssueNotes
- Add support for Project raw_blob
- Implement project compare
- Implement project contributors
- Drop the next_url attribute when listing
- Remove unnecessary canUpdate property from ProjectIssuesNote
- Add new optional attributes for projects
- Enable deprecation warnings for gitlab only
- Rework merge requests update
- Rework the Gitlab.delete method
- ProjectFile: file_path is required for deletion
- Rename some methods to better match the API URLs

- Deprecate the `file_*` methods in favor of the files manager
- Implement `star/unstar` for projects
- Implement `list/get` licenses
- Manage optional parameters for `list()` and `get()`

Version 0.12.2 - 2016-03-19

- Add new *ProjectHook* attributes
- Add support for user `block/unblock`
- Fix `GitlabObject` creation in `_custom_list`
- Add support for more CLI subcommands
- Add some unit tests for CLI
- Add a coverage `tox` env
- Define `GitlabObject.as_dict()` to dump object as a dict
- Define `GitlabObject.__eq__()` and `__ne__()` equivalence methods
- Define `UserManager.search()` to search for users
- Define `UserManager.get_by_username()` to get a user by username
- Implement “user search” CLI
- Improve the doc for `UserManager`
- CLI: implement user `get-by-username`
- Re-implement `_custom_list` in the `Gitlab` class
- Fix the ‘invalid syntax’ error on Python 3.2
- `Gitlab.update()`: use the proper attributes if defined

Version 0.12.1 - 2016-02-03

- Fix a broken upload to pypi

Version 0.12 - 2016-02-03

- Improve documentation
- Improve unit tests
- Improve test scripts
- Skip `BaseManager` attributes when encoding to JSON
- Fix the `json()` method for python 3
- Add Travis CI support
- Add a `decode` method for `ProjectFile`

- Make connection exceptions more explicit
- Fix ProjectLabel get and delete
- Implement ProjectMilestone.issues()
- ProjectTag supports deletion
- Implement setting release info on a tag
- Implement project triggers support
- Implement project variables support
- Add support for application settings
- Fix the ‘password’ requirement for User creation
- Add sudo support
- Fix project update
- Fix Project.tree()
- Add support for project builds

Version 0.11.1 - 2016-01-17

- Fix discovery of parents object attrs for managers
- Support setting commit status
- Support deletion without getting the object first
- Improve the documentation

Version 0.11 - 2016-01-09

- functional_tests.sh: support python 2 and 3
- Add a get method for GitlabObject
- CLI: Add the -g short option for –gitlab
- Provide a create method for GitlabObject’s
- Rename the _created attribute _from_api
- More unit tests
- CLI: fix error when arguments are missing (python 3)
- Remove deprecated methods
- Implement managers to get access to resources
- Documentation improvements
- Add fork project support
- Deprecate the “old” Gitlab methods
- Add support for groups search

Version 0.10 - 2015-12-29

- Implement pagination for list() (#63)
- Fix url when fetching a single MergeRequest
- Add support to update MergeRequestNotes
- API: Provide a Gitlab.from_config method
- setup.py: require requests>=1 (#69)
- Fix deletion of object not using 'id' as ID (#68)
- Fix GET/POST for project files
- Make 'confirm' an optional attribute for user creation
- Python 3 compatibility fixes
- Add support for group members update (#73)

Version 0.9.2 - 2015-07-11

- CLI: fix the update and delete subcommands (#62)

Version 0.9.1 - 2015-05-15

- Fix the setup.py script

Version 0.9 - 2015-05-15

- Implement argparse library for parsing argument on CLI
- Provide unit tests and (a few) functional tests
- Provide PEP8 tests
- Use tox to run the tests
- CLI: provide a --config-file option
- Turn the gitlab module into a proper package
- Allow projects to be updated
- Use more pythonic names for some methods
- **Deprecate some Gitlab object methods:**
 - raw* methods should never have been exposed; replace them with _raw_* methods
 - setCredentials and setToken are replaced with set_credentials and set_token
- Sphinx: don't hardcode the version in conf.py

Version 0.8 - 2014-10-26

- Better python 2.6 and python 3 support
- Timeout support in HTTP requests
- Gitlab.get() raised GitlabListError instead of GitlabGetError
- Support api-objects which don't have id in api response
- Add ProjectLabel and ProjectFile classes
- Moved url attributes to separate list
- Added list for delete attributes

Version 0.7 - 2014-08-21

- Fix license classifier in setup.py
- Fix encoding error when printing to redirected output
- Fix encoding error when updating with redirected output
- Add support for UserKey listing and deletion
- Add support for branches creation and deletion
- Support state_event in ProjectMilestone (#30)
- Support namespace/name for project id (#28)
- Fix handling of boolean values (#22)

Version 0.6 - 2014-01-16

- IDs can be unicode (#15)
- ProjectMember: constructor should not create a User object
- Add support for extra parameters when listing all projects (#12)
- Projects listing: explicitly define arguments for pagination

Version 0.5 - 2013-12-26

- Add SSH key for user
- Fix comments
- Add support for project events
- Support creation of projects for users
- Project: add methods for create/update/delete files
- Support projects listing: search, all, owned
- System hooks can't be updated

- `Project.archive()`: download tarball of the project
- Define new optional attributes for user creation
- Provide constants for access permissions in groups

Version 0.4 - 2013-09-26

- Fix strings encoding (Closes #6)
- Allow to get a project commit (GitLab 6.1)
- `ProjectMergeRequest`: fix `Note()` method
- Gitlab 6.1 methods: `diff`, `blob (commit)`, `tree`, `blob (project)`
- Add support for Gitlab 6.1 group members

Version 0.3 - 2013-08-27

- Use `PRIVATE-TOKEN` header for passing the auth token
- provide a `AUTHORS` file
- cli: support `ssl_verify` config option
- Add `ssl_verify` option to Gitlab object. Defaults to `True`
- Correct url for merge requests API.

Version 0.2 - 2013-08-08

- provide a `pip requirements.txt`
- drop some debug statements

Version 0.1 - 2013-07-08

- Initial release

CHAPTER 9

Indices and tables

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- `modindex`
- `search`

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