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# **django-permission Documentation**

*Release 0.8.8*

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## django-permission

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**Supported python versions** Python 2.6, 2.7, 3.2, 3.3, 3.4

**Supported django versions** Django 1.2 - 1.8

An enhanced permission library which enables a *logic-based permission system* to handle complex permissions in Django.

It is developed based on the authentication backend system introduced in Django 1.2. This library does support Django 1.2 and higher.

### 1.1 Documentation

<http://django-permission.readthedocs.org/en/latest/>

### 1.2 Installation

Use `pip` like:

```
$ pip install django-permission
```

### 1.3 Usage

The following might help you to understand as well.

- Basic strategy or so on, [Issue #28](#)
- Advanced usage and examples, [Issue #26](#)

#### 1.3.1 Configuration

1. Add `permission` to the `INSTALLED_APPS` in your settings module

```
INSTALLED_APPS = (  
    # ...  
    'permission',  
)
```

2. Add our extra authorization/authentication backend

```
AUTHENTICATION_BACKENDS = (  
    'django.contrib.auth.backends.ModelBackend', # default  
    'permission.backends.PermissionBackend',  
)
```

3. Follow the instructions below to apply logical permissions to django models

### 1.3.2 Autodiscovery

This is a new feature, added in django-permission 0.6.0, and the behavior was changed in django-permission 0.6.3. Like django's admin package, django-permission automatically discovers the `perms.py` in your application directory by running `permission.autodiscover()`. Additionally, if the `perms.py` module has a `PERMISSION_LOGICS` variable, django-permission automatically run the following functions to apply the permission logics.

```
for model, permission_logic_instance in PERMISSION_LOGICS:  
    if isinstance(model, str):  
        model = get_model(*model.split(".", 1))  
        add_permission_logic(model, permission_logic_instance)
```

#### Quick tutorial

1. Add import permission; `permission.autodiscover()` to your `urls.py` like:

```
from django.conf.urls import patterns, include, url  
from django.contrib import admin  
  
admin.autodiscover()  
# add this line  
import permission; permission.autodiscover()  
  
urlpatterns = patterns('',  
    url(r'^admin/', include(admin.site.urls)),  
    # ...  
)
```

2. Write `perms.py` in your application directory like:

```
from permission.logics import AuthorPermissionLogic  
from permission.logics import CollaboratorsPermissionLogic  
  
PERMISSION_LOGICS = (  
    ('your_app.Article', AuthorPermissionLogic()),  
    ('your_app.Article', CollaboratorsPermissionLogic()),  
)
```

You can specify a different module or variable name, with `PERMISSION_AUTODISCOVER_MODULE_NAME` or `PERMISSION_AUTODISCOVER_VARIABLE_NAME` respectively.

### 1.3.3 Apply permission logic

Let's assume you wrote an article model which has an `author` attribute to store the creator of the article, and you want to give that author full control permissions (e.g. add, change and delete permissions).

What you need to do is just applying `permission.logics.AuthorPermissionLogic` to the Article model like

```
from django.db import models
from django.contrib.auth.models import User

class Article(models.Model):
    title = models.CharField('title', max_length=120)
    body = models.TextField('body')
    author = models.ForeignKey(User)

    # this is just required for easy explanation
    class Meta:
        app_label='permission'

# apply AuthorPermissionLogic
from permission import add_permission_logic
from permission.logics import AuthorPermissionLogic
add_permission_logic(Article, AuthorPermissionLogic())
```

**Note:** From django-permission version 0.8.0, you can specify related object with `field_name` attribute like django queryset lookup. See the working example below:

```
from django.db import models
from django.contrib.auth.models import User

class Article(models.Model):
    title = models.CharField('title', max_length=120)
    body = models.TextField('body')
    project = models.ForeignKey('permission.Project')

    # this is just required for easy explanation
    class Meta:
        app_label='permission'

class Project(models.Model):
    title = models.CharField('title', max_length=120)
    body = models.TextField('body')
    author = models.ForeignKey(User)

    # this is just required for easy explanation
    class Meta:
        app_label='permission'

# apply AuthorPermissionLogic to Article
from permission import add_permission_logic
from permission.logics import AuthorPermissionLogic
add_permission_logic(Article, AuthorPermissionLogic(
    field_name='project__author',
))
```

That's it. Now the following codes will work as expected:

```
user1 = User.objects.create_user(
    username='john',
    email='john@test.com',
    password='password',
)
user2 = User.objects.create_user(
    username='alice',
    email='alice@test.com',
    password='password',
)

art1 = Article.objects.create(
    title="Article 1",
    body="foobar hogehoge",
    author=user1
)
art2 = Article.objects.create(
    title="Article 2",
    body="foobar hogehoge",
    author=user2
)

# You have to apply 'permission.add_article' to users manually because it
# is not an object permission.
from permission.utils.permissions import perm_to_permission
user1.user_permissions.add(perm_to_permission('permission.add_article'))

assert user1.has_perm('permission.add_article') == True
assert user1.has_perm('permission.change_article') == False
assert user1.has_perm('permission.change_article', art1) == True
assert user1.has_perm('permission.change_article', art2) == False

assert user2.has_perm('permission.add_article') == False
assert user2.has_perm('permission.delete_article') == False
assert user2.has_perm('permission.delete_article', art1) == False
assert user2.has_perm('permission.delete_article', art2) == True

#
# You may also be interested in django signals to apply 'add' permissions to the
# newly created users.
# https://docs.djangoproject.com/en/dev/ref/signals/#django.db.models.signals.post_save
#
from django.db.models.signals.post_save
from django.dispatch import receiver
from permission.utils.permissions import perm_to_permission

@receiver(post_save, sender=User)
def apply_permissions_to_new_user(sender, instance, created, **kwargs):
    if not created:
        return
    #
    # permissions you want to apply to the newly created user
    # YOU SHOULD NOT APPLY PERMISSIONS EXCEPT PERMISSIONS FOR 'ADD'
    # in this way, the applied permissions are not object permission so
    # if you apply 'permission.change_article' then the user can change
    # any article object.
    #
```



```

permissions = [
    'permission.add_article',
]
for permission in permissions:
    # apply permission
    # perm_to_permission is a utility to convert string permission
    # to permission instance.
    instance.user_permissions.add(perm_to_permission(permission))

```

See [http://django-permission.readthedocs.org/en/latest/\\_modules/permission/logics/author.html#AuthorPermissionLogic](http://django-permission.readthedocs.org/en/latest/_modules/permission/logics/author.html#AuthorPermissionLogic) to learn how this logic works.

Now, assume you add `collaborators` attribute to store collaborators of the article and you want to give them a change permission.

What you need to do is quite simple. Apply `permission.logics.CollaboratorsPermissionLogic` to the `Article` model as follows

```

from django.db import models
from django.contrib.auth.models import User

class Article(models.Model):
    title = models.CharField('title', max_length=120)
    body = models.TextField('body')
    author = models.ForeignKey(User)
    collaborators = models.ManyToManyField(User)

    # this is just required for easy explanation
    class Meta:
        app_label='permission'

# apply AuthorPermissionLogic and CollaboratorsPermissionLogic
from permission import add_permission_logic
from permission.logics import AuthorPermissionLogic
from permission.logics import CollaboratorsPermissionLogic
add_permission_logic(Article, AuthorPermissionLogic())
add_permission_logic(Article, CollaboratorsPermissionLogic(
    field_name='collaborators',
    any_permission=False,
    change_permission=True,
    delete_permission=False,
))

```

**Note:** From django-permission version 0.8.0, you can specify related object with `field_name` attribute like `django queryset` lookup. See the working example below:

```

from django.db import models
from django.contrib.auth.models import User

class Article(models.Model):
    title = models.CharField('title', max_length=120)
    body = models.TextField('body')
    project = models.ForeignKey('permission.Project')

    # this is just required for easy explanation
    class Meta:

```

```
        app_label='permission'  
  
class Project(models.Model):  
    title = models.CharField('title', max_length=120)  
    body = models.TextField('body')  
    collaborators = models.ManyToManyField(User)  
  
    # this is just required for easy explanation  
    class Meta:  
        app_label='permission'  
  
# apply AuthorPermissionLogic to Article  
from permission import add_permission_logic  
from permission.logics import CollaboratorsPermissionLogic  
add_permission_logic(Article, CollaboratorsPermissionLogic(  
    field_name='project__collaborators',  
))
```

That's it. Now the following codes will work as expected:

```
user1 = User.objects.create_user(  
    username='john',  
    email='john@test.com',  
    password='password',  
)  
user2 = User.objects.create_user(  
    username='alice',  
    email='alice@test.com',  
    password='password',  
)  
  
art1 = Article.objects.create(  
    title="Article 1",  
    body="foobar hogehoge",  
    author=user1  
)  
art1.collaborators.add(user2)  
  
assert user1.has_perm('permission.change_article') == False  
assert user1.has_perm('permission.change_article', art1) == True  
assert user1.has_perm('permission.delete_article', art1) == True  
  
assert user2.has_perm('permission.change_article') == False  
assert user2.has_perm('permission.change_article', art1) == True  
assert user2.has_perm('permission.delete_article', art1) == False
```

See [http://django-permission.readthedocs.org/en/latest/\\_modules/permission/logics/collaborators.html#CollaboratorsPermissionLogic](http://django-permission.readthedocs.org/en/latest/_modules/permission/logics/collaborators.html#CollaboratorsPermissionLogic) to learn how this logic works.

There are `StaffPermissionLogic` and `GroupInPermissionLogic` for `is_staff` or `group` based permission logic as well.

### Customize permission logic

Your own permission logic class must be a subclass of `permission.logics.PermissionLogic` and must override `has_perm(user_obj, perm, obj=None)` method which return boolean value.

## 1.4 Class, method, or function decorator

Like Django's `permission_required` but it can be used for object permissions and as a class, method, or function decorator. Also, you don't need to specify a object to this decorator for object permission. This decorator automatically determined the object from request (so you cannot use this decorator for non view class/method/function but you anyway use `user.has_perm` in that case).

```
>>> from permission.decorators import permission_required
>>> # As class decorator
>>> @permission_required('auth.change_user')
>>> class UpdateAuthUserView(UpdateView):
...     pass
>>> # As method decorator
>>> class UpdateAuthUserView(UpdateView):
...     @permission_required('auth.change_user')
...     def dispatch(self, request, *args, **kwargs):
...         pass
>>> # As function decorator
>>> @permission_required('auth.change_user')
>>> def update_auth_user(request, *args, **kwargs):
...     pass
```

## 1.5 Override the builtin `if` template tag

django-permission overrides the builtin `if` tag, adding two operators to handle permissions in templates. You can write a permission test by using `has` keyword, and a target object with `of` as below.

```
{% if user has 'blogs.add_article' %}
  <p>This user have 'blogs.add_article' permission</p>
{% elif user has 'blog.change_article' of object %}
  <p>This user have 'blogs.change_article' permission of {{object}}</p>
{% endif %}

{# If you set 'PERMISSION_REPLACE_BUILTIN_IF = False' in settings #}
{% permission user has 'blogs.add_article' %}
  <p>This user have 'blogs.add_article' permission</p>
{% elpermission user has 'blog.change_article' of object %}
  <p>This user have 'blogs.change_article' permission of {{object}}</p>
{% endpermission %}
```



---

## API documentation

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### 2.1 permission package

#### 2.1.1 Subpackages

##### permission.decorators package

##### Submodules

##### permission.decorators.classbase module

permission\_required decorator for generic classbased view from django 1.3

```
permission.decorators.classbase.get_object_from_classbased_instance(instance,
                                                                    queryset,
                                                                    request,
                                                                    *args,
                                                                    **kwargs)
```

Get object from an instance of classbased generic view

**Parameters** *instance* : instance

An instance of classbased generic view

**queryset** : instance

A queryset instance

**request** : instance

A instance of HttpRequest

**Returns** instance

An instance of model object or None

```
permission.decorators.classbase.permission_required(perm, queryset=None,
                                                  login_url=None,
                                                  raise_exception=False)
```

Permission check decorator for classbased generic view

This decorator works as class decorator DO NOT use `method_decorator` or whatever while this decorator will use `self` argument for method of classbased generic view.

**Parameters** *perm* : string

A permission string

**queryset\_or\_model** : queryset or model

A queryset or model for finding object. With classbased generic view, None for using view default queryset. When the view does not define `get_queryset`, `queryset`, `get_object`, or `object` then `obj=None` is used to check permission. With functional generic view, None for using passed queryset. When non queryset was passed then `obj=None` is used to check permission.

### Examples

```
>>> @permission_required('auth.change_user')
>>> class UpdateAuthUIView(UpdateView):
...     pass
```

### permission.decorators.functionbase module

`permission_required` decorator for generic function view

`permission.decorators.functionbase.get_object_from_date_based_view` (*request*,  
*\*args*,  
*\*\*kwargs*)

Get object from generic `date_based.detail` view

**Parameters** **request** : instance

An instance of `HttpRequest`

**Returns** instance

An instance of model object or None

`permission.decorators.functionbase.get_object_from_list_detail_view` (*request*,  
*\*args*,  
*\*\*kwargs*)

Get object from generic `list_detail.detail` view

**Parameters** **request** : instance

An instance of `HttpRequest`

**Returns** instance

An instance of model object or None

`permission.decorators.functionbase.permission_required` (*perm*, *queryset=None*,  
*login\_url=None*,  
*raise\_exception=False*)

Permission check decorator for function-base generic view

This decorator works as function decorator

**Parameters** **perm** : string

A permission string

**queryset\_or\_model** : queryset or model

A queryset or model for finding object. With classbased generic view, None for using view default queryset. When the view does not define `get_queryset`, `queryset`,

get\_object, or object then obj=None is used to check permission. With functional generic view, None for using passed queryset. When non queryset was passed then obj=None is used to check permission.

### Examples

```
>>> @permission_required('auth.change_user')
>>> def update_auth_user(request, *args, **kwargs):
...     pass
```

### permission.decorators.methodbase module

permission\_required decorator for generic classbased/functionbased view

```
permission.decorators.methodbase.permission_required(perm, queryset=None,
                                                    login_url=None,
                                                    raise_exception=False)
```

Permission check decorator for classbased/functionbased generic view

This decorator works as method or function decorator DO NOT use method\_decorator or whatever while this decorator will use self argument for method of classbased generic view.

**Parameters perm** : string

A permission string

**queryset\_or\_model** : queryset or model

A queryset or model for finding object. With classbased generic view, None for using view default queryset. When the view does not define get\_queryset, queryset, get\_object, or object then obj=None is used to check permission. With functional generic view, None for using passed queryset. When non queryset was passed then obj=None is used to check permission.

### Examples

```
>>> # As method decorator
>>> class UpdateAuthUIView(UpdateView):
>>>     @permission_required('auth.change_user')
>>>     def dispatch(self, request, *args, **kwargs):
...         pass
>>> # As function decorator
>>> @permission_required('auth.change_user')
>>> def update_auth_user(request, *args, **kwargs):
...     pass
```

### permission.decorators.permission\_required module

```
permission.decorators.permission_required.permission_required(perm, query-
                                                            set_or_model=None,
                                                            login_url=None,
                                                            raise_exception=False)
```

Permission check decorator for classbased/functional generic view

This decorator works as class, method or function decorator without any modification. DO NOT use `method_decorator` or whatever while this decorator will use `self` argument for method of classbased generic view.

**Parameters** `perm` : string

A permission string

**queryset\_or\_model** : queryset or model

A queryset or model for finding object. With classbased generic view, `None` for using view default queryset. When the view does not define `get_queryset`, `queryset`, `get_object`, or `object` then `obj=None` is used to check permission. With functional generic view, `None` for using passed queryset. When non queryset was passed then `obj=None` is used to check permission.

### Examples

```
>>> # As class decorator
>>> @permission_required('auth.change_user')
>>> class UpdateAuthUserView(UpdateView):
...     pass
>>> # As method decorator
>>> class UpdateAuthUserView(UpdateView):
...     @permission_required('auth.change_user')
...     def dispatch(self, request, *args, **kwargs):
...         pass
>>> # As function decorator
>>> @permission_required('auth.change_user')
>>> def update_auth_user(request, *args, **kwargs):
...     pass
```

---

**Note:** Classbased generic view is recommended while you can regulate the queryset with `get_queryset()` method. Detecting object from passed kwargs may not work correctly.

---

### permission.decorators.utils module

Decorator utility module

`permission.decorators.utils.redirect_to_login(request, login_url=None, redirect_field_name='next')`  
redirect to login

### Module contents

#### permission.logics package

#### Submodules

#### permission.logics.author module

Permission logic module for author based permission system



```
class permission.logics.author.AuthorPermissionLogic (field_name=None,
                                                    any_permission=None,
                                                    change_permission=None,
                                                    delete_permission=None)
```

Bases: `permission.logics.base.PermissionLogic`

Permission logic class for author based permission system

### Methods

**has\_perm** (*user\_obj*, *perm*, *obj=None*)

Check if user have permission (of object)

If the *user\_obj* is not authenticated, it return `False`.

If no object is specified, it return `True` when the corresponding permission was specified to `True` (changed from v0.7.0). This behavior is based on the django system. <https://code.djangoproject.com/wiki/RowLevelPermissions>

If an object is specified, it will return `True` if the user is specified in *field\_name* of the object (e.g. *obj.author*). So once user create an object and the object store who is the author in *field\_name* attribute (default: `author`), the author can change or delete the object (you can change this behavior to set *any\_permission*, *change\_permission* or *delete\_permission* attributes of this instance).

**Parameters** *user\_obj* : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Wheter the specified user have specified permission (of specified object).

### permission.logics.base module

```
class permission.logics.base.PermissionLogic
```

Bases: `object`

Abstract permission logic class

### Methods

**get\_full\_permission\_string** (*perm*)

Return full permission string (*app\_label.perm\_model*)

**has\_perm** (*user\_obj*, *perm*, *obj=None*)

Check if user have permission (of object)

**Parameters** *user\_obj* : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Whether the specified user have specified permission (of specified object).

---

**Note:** Sub class must override this method.

---

### permission.logics.collaborators module

Permission logic module for collaborators based permission system

**class** `permission.logics.collaborators.CollaboratorsPermissionLogic` (*field\_name=None, any\_permission=None, change\_permission=None, delete\_permission=None*)

Bases: `permission.logics.base.PermissionLogic`

Permission logic class for collaborators based permission system

#### Methods

**has\_perm** (*user\_obj, perm, obj=None*)

Check if user have permission (of object)

If the `user_obj` is not authenticated, it return `False`.

If no object is specified, it return `True` when the corresponding permission was specified to `True` (changed from v0.7.0). This behavior is based on the django system. <https://code.djangoproject.com/wiki/RowLevelPermissions>

If an object is specified, it will return `True` if the user is found in `field_name` of the object (e.g. `obj.collaborators`). So once the object store the user as a collaborator in `field_name` attribute (default: `collaborators`), the collaborator can change or delete the object (you can change this behavior to set `any_permission`, `change_permission` or `delete_permission` attributes of this instance).

**Parameters** `user_obj` : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Whether the specified user have specified permission (of specified object).

## permission.logics.groupin module

Permission logic module for group based permission system

```
class permission.logics.groupin.GroupInPermissionLogic (group_names,
                                                    any_permission=None,
                                                    add_permission=None,
                                                    change_permission=None,
                                                    delete_permission=None)
```

Bases: `permission.logics.base.PermissionLogic`

Permission logic class for group based permission system

### Methods

**has\_perm** (*user\_obj, perm, obj=None*)

Check if user have permission (of object)

If the user\_obj is not authenticated, it return False.

If no object is specified, it return True when the corresponding permission was specified to True (changed from v0.7.0). This behavior is based on the django system. <https://code.djangoproject.com/wiki/RowLevelPermissions>

If an object is specified, it will return True if the user is in group specified in group\_names of this instance. This permission logic is used mainly for group based role permission system. You can change this behavior to set any\_permission, add\_permission, change\_permission, or delete\_permission attributes of this instance.

**Parameters** **user\_obj** : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Wheter the specified user have specified permission (of specified object).

## permission.logics.oneself module

Permission logic module to manage users' self-modifications

```
class permission.logics.oneself.OneselfPermissionLogic (any_permission=None,
                                                    change_permission=None,
                                                    delete_permission=None)
```

Bases: `permission.logics.base.PermissionLogic`

Permission logic class to manage users' self-modifications

Written by quasyioke. <https://github.com/lambdalisue/django-permission/pull/27>

## Methods

**has\_perm** (*user\_obj*, *perm*, *obj=None*)

Check if user have permission of himself

If the *user\_obj* is not authenticated, it return `False`.

If no object is specified, it return `True` when the corresponding permission was specified to `True` (changed from v0.7.0). This behavior is based on the django system. <https://code.djangoproject.com/wiki/RowLevelPermissions>

If an object is specified, it will return `True` if the object is the user. So users can change or delete themselves (you can change this behavior to set `any_permission`, `change_permission` or `delete_permission` attributes of this instance).

**Parameters** *user\_obj* : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Wheter the specified user have specified permission (of specified object).

## permission.logics.staff module

Permission logic module for author based permission system

```
class permission.logics.staff.StaffPermissionLogic (any_permission=None,  
                                                    add_permission=None,  
                                                    change_permission=None,  
                                                    delete_permission=None)
```

Bases: *permission.logics.base.PermissionLogic*

Permission logic class for `is_staff` authority based permission system

## Methods

**has\_perm** (*user\_obj*, *perm*, *obj=None*)

Check if user have permission (of object)

If the *user\_obj* is not authenticated, it return `False`.

If no object is specified, it return `True` when the corresponding permission was specified to `True` (changed from v0.7.0). This behavior is based on the django system. <https://code.djangoproject.com/wiki/RowLevelPermissions>

If an object is specified, it will return `True` if the user is staff. The staff can add, change or delete the object (you can change this behavior to set `any_permission`, `add_permission`, `change_permission`, or `delete_permission` attributes of this instance).

**Parameters** *user\_obj* : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Weather the specified user have specified permission (of specified object).

## Module contents

Permission logic module

## permission.templatetags package

### Submodules

#### permission.templatetags.patch module

django if templatetag patch

`permission.templatetags.patch.parser_patch` (*instance*)

#### permission.templatetags.permissionif module

permissionif templatetag

**class** `permission.templatetags.permissionif.PermissionIfParser` (*tokens*)

Bases: `django.template.smartif.IfParser`

Permission if parser

### Methods

**OPERATORS** = {'and': <class 'django.template.smartif.Operator'>, '>=': <class 'django.template.smartif.Operator'>, 'no  
use extra operator

**translate\_token** (*token*)

**class** `permission.templatetags.permissionif.TemplatePermissionIfParser` (*parser*,  
*\*args*,  
*\*\*kwargs*)

Bases: `permission.templatetags.permissionif.PermissionIfParser`

### Methods

**create\_var** (*value*)

**error\_class**

alias of `TemplateSyntaxError`

`permission.templatetags.permissionif.do_permissionif` (*parser, token*)  
Permission if templatetag

### Examples

```
{% if user has 'blogs.add_article' %}
  <p>This user have 'blogs.add_article' permission</p>
{% elif user has 'blog.change_article' of object %}
  <p>This user have 'blogs.change_article' permission of {{object}}</p>
{% endif %}

{# If you set 'PERMISSION_REPLACE_BUILTIN_IF = False' in settings #}
{% permission user has 'blogs.add_article' %}
  <p>This user have 'blogs.add_article' permission</p>
{% elpermission user has 'blog.change_article' of object %}
  <p>This user have 'blogs.change_article' permission of {{object}}</p>
{% endpermission %}
```

`permission.templatetags.permissionif.has_operator` (*context, x, y*)  
'has' operator of permission if

This operator is used to specify the user object of permission

`permission.templatetags.permissionif.of_operator` (*context, x, y*)  
'of' operator of permission if

This operator is used to specify the target object of permission

## Module contents

### permission.tests package

#### Subpackages

#### permission.tests.test\_decorators package

#### Submodules

#### permission.tests.test\_decorators.test\_classbase module

`class` `permission.tests.test_decorators.test_classbase.PermissionClassDecoratorsTestCase` (*method*)  
Bases: `django.test.testcases.TestCase`

#### Attributes

available_apps	
fixtures	

#### Methods

`setUp` ()

```
tearDown()
test_with_get_object()
test_with_get_queryset()
test_with_object()
test_with_queryset()
```

**permission.tests.test\_decorators.test\_functionbase module**

**class** permission.tests.test\_decorators.test\_functionbase.**PermissionFunctionDecoratorsTestCase**

Bases: django.test.testcases.TestCase

**Attributes**

available_apps	
fixtures	

**Methods**

```
setUp()
tearDown()
test_date_based_object_id()
test_date_based_slug()
test_list_detail_object_id()
test_list_detail_slug()
```

**permission.tests.test\_decorators.test\_methodbase module**

**class** permission.tests.test\_decorators.test\_methodbase.**PermissionClassDecoratorsTestCase** (*metho*

Bases: django.test.testcases.TestCase

**Attributes**

available_apps	
fixtures	

**Methods**

```
setUp()
tearDown()
test_with_get_object()
test_with_get_queryset()
test_with_object()
test_with_queryset()
```

**permission.tests.test\_decorators.test\_permission\_required module**

**class** `permission.tests.test_decorators.test_permission_required.PermissionDecoratorsTestCase`  
Bases: `django.test.testcases.TestCase`

**Attributes**

<code>available_apps</code>	
<code>fixtures</code>	

**Methods**

`setUp()`  
`tearDown()`  
`test_class_views()`  
`test_function_views()`  
`test_method_views()`  
`test_permission_required()`

**class** `permission.tests.test_decorators.test_permission_required.View` (\*\*kwargs)  
Bases: `django.views.generic.base.View`

**Methods**

`dispatch(request, *args, **kwargs)`  
`get_object(queryset=None)`

`permission.tests.test_decorators.test_permission_required.view_func` (*request*,  
*\*args*,  
*\*\*kwargs*)

**permission.tests.test\_decorators.utils module**

`permission.tests.test_decorators.utils.create_mock_class` (*name*, *base*, *instance=None*)  
`permission.tests.test_decorators.utils.create_mock_handler` ()  
`permission.tests.test_decorators.utils.create_mock_model` ()  
`permission.tests.test_decorators.utils.create_mock_queryset` (*obj*)  
`permission.tests.test_decorators.utils.create_mock_request` (*mock\_permission\_handler*)  
`permission.tests.test_decorators.utils.create_mock_view_class` (*view\_func*)  
`permission.tests.test_decorators.utils.create_mock_view_func` ()

**Module contents**

**permission.tests.test\_logics package**

**Submodules**



**permission.tests.test\_logics.test\_author module**

**class** permission.tests.test\_logics.test\_author.PermissionLogicsAuthorPermissionLogicTestCase

Bases: django.test.testcases.TestCase

**Attributes**

available_apps	
fixtures	

**Methods**

- setUp()
- test\_constructor()
- test\_constructor\_with\_specifying\_any\_permission()
- test\_constructor\_with\_specifying\_change\_permission()
- test\_constructor\_with\_specifying\_delete\_permission()
- test\_constructor\_with\_specifying\_field\_name()
- test\_has\_perm\_add\_with\_obj()
- test\_has\_perm\_add\_with\_obj\_author()
- test\_has\_perm\_add\_with\_obj\_author\_diff\_field\_name()
- test\_has\_perm\_add\_with\_obj\_author\_non\_any()
- test\_has\_perm\_add\_with\_obj\_author\_non\_any\_no\_change()
- test\_has\_perm\_add\_with\_obj\_author\_non\_any\_no\_delete()
- test\_has\_perm\_add\_with\_obj\_with\_anonymous()
- test\_has\_perm\_add\_without\_obj()
- test\_has\_perm\_add\_without\_obj\_with\_anonymous()
- test\_has\_perm\_change\_with\_obj()
- test\_has\_perm\_change\_with\_obj\_author()
- test\_has\_perm\_change\_with\_obj\_author\_diff\_field\_name()
- test\_has\_perm\_change\_with\_obj\_author\_non\_any()
- test\_has\_perm\_change\_with\_obj\_author\_non\_any\_no\_change()
- test\_has\_perm\_change\_with\_obj\_author\_non\_any\_no\_delete()
- test\_has\_perm\_change\_with\_obj\_with\_anonymous()
- test\_has\_perm\_change\_without\_obj()
- test\_has\_perm\_change\_without\_obj\_with\_anonymous()
- test\_has\_perm\_delete\_with\_obj()
- test\_has\_perm\_delete\_with\_obj\_author()
- test\_has\_perm\_delete\_with\_obj\_author\_diff\_field\_name()

```
test_has_perm_delete_with_obj_non_any()  
test_has_perm_delete_with_obj_non_any_no_change()  
test_has_perm_delete_with_obj_non_any_no_delete()  
test_has_perm_delete_with_obj_with_anonymous()  
test_has_perm_delete_without_obj()  
test_has_perm_delete_without_obj_with_anonymous()
```

#### permission.tests.test\_logics.test\_base module

class permission.tests.test\_logics.test\_base.PermissionLogicsPermissionLogicTestCase (*methodName*)  
Bases: django.test.testcases.TestCase

##### Attributes

available_apps	
fixtures	

##### Methods

```
setUp()  
test_constructor()  
test_has_perm_add_wiht_obj()  
test_has_perm_add_wihtout_obj()  
test_has_perm_change_wiht_obj()  
test_has_perm_change_wihtout_obj()  
test_has_perm_delete_wiht_obj()  
test_has_perm_delete_wihtout_obj()
```

#### permission.tests.test\_logics.test\_collaborators module

class permission.tests.test\_logics.test\_collaborators.PermissionLogicsCollaboratorsPermissionLogicTestCase (*methodName*)  
Bases: django.test.testcases.TestCase

##### Attributes

available_apps	
fixtures	

##### Methods

```
setUp()  
test_constructor()  
test_constructor_with_specifing_any_permission()
```

```
test_constructor_with_specifying_change_permission()
test_constructor_with_specifying_delete_permission()
test_constructor_with_specifying_field_name()
test_has_perm_add_with_obj()
test_has_perm_add_with_obj_collaborators()
test_has_perm_add_with_obj_collaborators_diff_field_name()
test_has_perm_add_with_obj_collaborators_non_any()
test_has_perm_add_with_obj_collaborators_non_any_no_change()
test_has_perm_add_with_obj_collaborators_non_any_no_delete()
test_has_perm_add_with_obj_with_anonymous()
test_has_perm_add_without_obj()
test_has_perm_add_without_obj_with_anonymous()
test_has_perm_change_with_obj()
test_has_perm_change_with_obj_collaborators()
test_has_perm_change_with_obj_collaborators_diff_field_name()
test_has_perm_change_with_obj_collaborators_non_any()
test_has_perm_change_with_obj_collaborators_non_any_no_change()
test_has_perm_change_with_obj_collaborators_non_any_no_delete()
test_has_perm_change_with_obj_with_anonymous()
test_has_perm_change_without_obj()
test_has_perm_change_without_obj_with_anonymous()
test_has_perm_delete_with_obj()
test_has_perm_delete_with_obj_collaborators()
test_has_perm_delete_with_obj_collaborators_diff_field_name()
test_has_perm_delete_with_obj_non_any()
test_has_perm_delete_with_obj_non_any_no_change()
test_has_perm_delete_with_obj_non_any_no_delete()
test_has_perm_delete_with_obj_with_anonymous()
test_has_perm_delete_without_obj()
test_has_perm_delete_without_obj_with_anonymous()
```

**permission.tests.test\_logics.test\_groupin module**

```
class permission.tests.test_logics.test_groupin.PermissionLogicsAuthorPermissionLogicTestCase
    Bases: django.test.testcases.TestCase
```

### Attributes

available_apps	
fixtures	

### Methods

```

setUp()
test_constructor()
test_constructor_with_specifying_add_permission()
test_constructor_with_specifying_any_permission()
test_constructor_with_specifying_change_permission()
test_constructor_with_specifying_delete_permission()
test_has_perm_add_with_obj()
test_has_perm_add_with_obj_with_anonymous()
test_has_perm_add_with_obj_with_two_groups()
test_has_perm_add_with_obj_without_any_permission()
test_has_perm_add_without_obj()
test_has_perm_add_without_obj_with_anonymous()
test_has_perm_add_without_obj_with_two_groups()
test_has_perm_add_without_obj_without_any_permission()
test_has_perm_change_with_obj()
test_has_perm_change_with_obj_with_anonymous()
test_has_perm_change_with_obj_with_two_groups()
test_has_perm_change_with_obj_without_any_permission()
test_has_perm_change_without_obj()
test_has_perm_change_without_obj_with_anonymous()
test_has_perm_change_without_obj_with_two_groups()
test_has_perm_change_without_obj_without_any_permission()
test_has_perm_delete_with_obj()
test_has_perm_delete_with_obj_with_anonymous()
test_has_perm_delete_with_obj_with_two_groups()
test_has_perm_delete_with_obj_without_any_permission()
test_has_perm_delete_without_obj()
test_has_perm_delete_without_obj_with_anonymous()
test_has_perm_delete_without_obj_with_two_groups()
test_has_perm_delete_without_obj_without_any_permission()

```

**permission.tests.test\_logics.test\_oneseif module**

**class** permission.tests.test\_logics.test\_oneseif.PermissionLogicsOneseifPermissionLogicTestCas

Bases: django.test.testcases.TestCase

**Attributes**

available_apps	
fixtures	

**Methods**

- setUp()
- test\_constructor()
- test\_constructor\_with\_specifying\_any\_permission()
- test\_constructor\_with\_specifying\_change\_permission()
- test\_constructor\_with\_specifying\_delete\_permission()
- test\_has\_perm\_add\_with\_himself()
- test\_has\_perm\_add\_with\_himself\_non\_any()
- test\_has\_perm\_add\_with\_himself\_non\_any\_no\_change()
- test\_has\_perm\_add\_with\_himself\_non\_any\_no\_delete()
- test\_has\_perm\_add\_with\_obj()
- test\_has\_perm\_add\_with\_obj\_with\_anonymous()
- test\_has\_perm\_add\_without\_obj()
- test\_has\_perm\_add\_without\_obj\_with\_anonymous()
- test\_has\_perm\_change\_with\_himself()
- test\_has\_perm\_change\_with\_himself\_non\_any()
- test\_has\_perm\_change\_with\_himself\_non\_any\_no\_change()
- test\_has\_perm\_change\_with\_himself\_non\_any\_no\_delete()
- test\_has\_perm\_change\_with\_obj()
- test\_has\_perm\_change\_with\_obj\_with\_anonymous()
- test\_has\_perm\_change\_without\_obj()
- test\_has\_perm\_change\_without\_obj\_with\_anonymous()
- test\_has\_perm\_delete\_with\_himself()
- test\_has\_perm\_delete\_with\_himself\_non\_any\_no\_change()
- test\_has\_perm\_delete\_with\_himself\_non\_any\_no\_delete()
- test\_has\_perm\_delete\_with\_obj()
- test\_has\_perm\_delete\_with\_obj\_non\_any()
- test\_has\_perm\_delete\_with\_obj\_with\_anonymous()

```
test_has_perm_delete_without_obj()
test_has_perm_delete_without_obj_with_anonymous()
```

**permission.tests.test\_logics.test\_staff module**

class permission.tests.test\_logics.test\_staff.PermissionLogicsStaffPermissionLogicTestCase (*m*

Bases: django.test.testcases.TestCase

**Attributes**

available_apps	
fixtures	

**Methods**

```
setUp()
test_constructor()
test_constructor_with_specifying_add_permission()
test_constructor_with_specifying_any_permission()
test_constructor_with_specifying_change_permission()
test_constructor_with_specifying_delete_permission()
test_has_perm_add_with_obj()
test_has_perm_add_with_obj_with_anonymous()
test_has_perm_add_with_obj_without_any()
test_has_perm_add_without_obj()
test_has_perm_add_without_obj_with_anonymous()
test_has_perm_add_without_obj_without_any()
test_has_perm_change_with_obj()
test_has_perm_change_with_obj_with_anonymous()
test_has_perm_change_with_obj_without_any()
test_has_perm_change_without_obj()
test_has_perm_change_without_obj_with_anonymous()
test_has_perm_change_without_obj_without_any()
test_has_perm_delete_with_obj()
test_has_perm_delete_with_obj_with_anonymous()
test_has_perm_delete_with_obj_without_any()
test_has_perm_delete_without_obj()
test_has_perm_delete_without_obj_with_anonymous()
test_has_perm_delete_without_obj_without_any()
```

## Module contents

permission.tests.test\_templatetags package

## Submodules

### permission.tests.test\_templatetags.test\_permissionif module

class permission.tests.test\_templatetags.test\_permissionif.**PermissionTemplateTagsTestCase** (*metaclass=ABCMeta*)  
 Bases: django.test.testcases.TestCase

#### Attributes

available_apps	
fixtures	

#### Methods

setUp()

tearDown()

test\_permissionif\_tag()

test\_permissionif\_tag\_and()

test\_permissionif\_tag\_elif()

test\_permissionif\_tag\_else()

test\_permissionif\_tag\_or()

test\_permissionif\_tag\_with\_obj()

class permission.tests.test\_templatetags.test\_permissionif.**PermissionTemplateTagsWithBuiltinT**  
 Bases: django.test.testcases.TestCase

#### Attributes

available_apps	
fixtures	

#### Methods

setUp()

tearDown()

test\_if\_tag()

test\_if\_tag\_and()

test\_if\_tag\_elif()

test\_if\_tag\_else()

```
test_if_tag_or()  
test_if_tag_with_obj()
```

## Module contents

permission.tests.test\_utils package

## Submodules

### permission.tests.test\_utils.test\_field\_lookup module

class permission.tests.test\_utils.test\_field\_lookup.PermissionUtilsFieldLookupTestCase (*methodN*)  
Bases: django.test.testcases.TestCase

#### Attributes

available_apps	
fixtures	

#### Methods

```
setUp()  
test_field_lookup_author()  
test_field_lookup_author_username()  
test_field_lookup_editors()  
test_field_lookup_editors_username()  
test_field_lookup_multiple_bridge_author()  
test_field_lookup_multiple_bridge_author_username()  
test_field_lookup_multiple_bridge_editors()  
test_field_lookup_multiple_bridge_editors__name()  
test_field_lookup_single_bridge_author()  
test_field_lookup_single_bridge_author_username()  
test_field_lookup_single_bridge_editors()  
test_field_lookup_single_bridge_editors_username()
```

### permission.tests.test\_utils.test\_handlers module

class permission.tests.test\_utils.test\_handlers.PermissionUtilsHandlersTestCase (*methodName='run*)  
Bases: django.test.testcases.TestCase



### Attributes

available_apps	
fixtures	

### Methods

```

setUp()
test_get_handlers()
test_register()
test_register_duplicate()
test_register_non_permission_handler()
test_register_permission_handler_instance()
test_register_with_abstract_model()
test_register_without_specifying_handler()
test_unregister()
test_unregister_absence()

```

#### permission.tests.test\_utils.test\_logics module

```

class permission.tests.test_utils.test_logics.PermissionUtilsLogicsTestCase (methodName='runTest')
    Bases: django.test.testcases.TestCase

```

### Attributes

available_apps	
fixtures	

### Methods

```

setUp()
tearDown()
test_add_permission_logic_private_attributes()
test_add_permission_logic_registry()
test_remove_permission_logic_exception()
test_remove_permission_logic_private_attributes()
test_remove_permission_logic_registry()
test_remove_permission_logic_registry_with_class()

```

#### permission.tests.test\_utils.test\_permissions module

## Module contents

### Submodules

#### permission.tests.compatibility module

```
class permission.tests.compatibility.TestRunner(pattern=None, top_level=None, ver-  
bosity=1, interactive=True, fail-  
fast=False, keepdb=False, reverse=False,  
debug_sql=False, **kwargs)
```

Bases: `django.test.runner.DiscoverRunner`

#### Methods

```
setup_test_environment (**kwargs)
```

```
teardown_test_environment (**kwargs)
```

#### permission.tests.models module

```
class permission.tests.models.Article(id, title, content, author, editor, single_bridge, cre-  
ated_at)
```

Bases: `django.db.models.base.Model`

#### Attributes

#### Methods

```
exception DoesNotExist
```

Bases: `django.core.exceptions.ObjectDoesNotExist`

```
exception Article.MultipleObjectsReturned
```

Bases: `django.core.exceptions.MultipleObjectsReturned`

`Article.author`

`Article.authors`

`Article.editor`

`Article.editors`

`Article.get_next_by_created_at` (*\*moreargs, \*\*morekwargs*)

`Article.get_previous_by_created_at` (*\*moreargs, \*\*morekwargs*)

`Article.multiple_bridge`

`Article.objects` = `<django.db.models.manager.Manager object>`

`Article.single_bridge`

```
class permission.tests.models.Bridge(id, author)
```

Bases: `django.db.models.base.Model`

## Attributes

## Methods

### exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

### exception `Bridge.MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

`Bridge.author`

`Bridge.editors`

`Bridge.objects = <django.db.models.manager.Manager object>`

`Bridge.permission_test_multiple_bridge`

`Bridge.permission_test_signgle_bridge`

## `permission.tests.test_backends` module

`class permission.tests.test_backends.PermissionPermissionBackendTestCase` (*methodName='runTest'*)

Bases: `django.test.testcases.TestCase`

## Attributes

<code>available_apps</code>	
<code>fixtures</code>	

## Methods

`setUp()`

`tearDown()`

`test_authenticate()`

`test_constructor()`

`test_has_module_perms()`

`test_has_perm_with_nil_permission(*args, **kwargs)`

`test_has_perm_with_nil_permission_raise(*args, **kwargs)`

`test_has_perm_with_nil_permission_raise_with_user(*args, **kwargs)`

`test_has_perm_with_nil_permission_with_user(*args, **kwargs)`

`test_has_perm_with_obj()`

`test_has_perm_without_obj()`

## `permission.tests.test_handlers` module

`class permission.tests.test_handlers.PermissionLogicalPermissionHandlerTestCase` (*methodName='runTest'*)

Bases: `django.test.testcases.TestCase`

### Attributes

available_apps	
fixtures	

### Methods

```
setUp()
test_constructor_with_app_label()
test_has_perm_non_related_permission()
test_has_perm_permission_logics_called()
```

**class** `permission.tests.test_handlers.PermissionPermissionHandlersTestCase` (*methodName='runTest'*)  
 Bases: `django.test.testcases.TestCase`

### Attributes

available_apps	
fixtures	

### Methods

```
setUp()
test_get_app_perms_with_app_label()
test_get_app_perms_with_model()
test_get_model_perms()
test_constructor_with_app_label()
test_constructor_with_model()
test_get_supported_app_labels()
test_get_supported_app_labels_with_excludes()
test_get_supported_app_labels_with_excludes_change()
test_get_supported_app_labels_with_includes()
test_get_supported_app_labels_with_includes_change()
test_get_supported_permissions()
test_get_supported_permissions_with_excludes()
test_get_supported_permissions_with_excludes_change()
test_get_supported_permissions_with_includes()
test_get_supported_permissions_with_includes_change()
test_has_module_perms_fail()
test_has_module_perms_success()
```

```
test_has_perm_add_wiht_obj()
test_has_perm_add_wihtout_obj()
test_has_perm_change_wiht_obj()
test_has_perm_change_wihtout_obj()
test_has_perm_delete_wiht_obj()
test_has_perm_delete_wihtout_obj()
```

### permission.tests.utils module

```
permission.tests.utils.create_anonymous(**kwargs)
permission.tests.utils.create_article(title, user=None, bridge=None)
permission.tests.utils.create_bridge(user=None, editors=None)
permission.tests.utils.create_group(name, user=None)
permission.tests.utils.create_permission(name, model=None)
permission.tests.utils.create_user(username, **kwargs)
```

### Module contents

#### permission.utils package

##### Submodules

#### permission.utils.autodiscover module

```
permission.utils.autodiscover.autodiscover(module_name=None)
    Autodiscover INSTALLED_APPS perms.py modules and fail silently when not present. This forces an import
    on them to register any permissions bits they may want.

permission.utils.autodiscover.discover(app, module_name=None)
    Automatically apply the permission logics written in the specified module.
```

### Examples

Assume if you have a perms.py in your\_app as:

```
from permission.logics import AuthorPermissionLogic
PERMISSION_LOGICS = (
    ('your_app.your_model', AuthorPermissionLogic),
)
```

Use this method to apply the permission logics enumerated in PERMISSION\_LOGICS variable like:

```
>>> discover('your_app')
```

### permission.utils.field\_lookup module

permission.utils.field\_lookup.**field\_lookup**(*obj, field\_path*)

Lookup django model field in similar way of django query lookup

**Args:** obj (instance): Django Model instance field\_path (str): ‘\_\_’ separated field path

**Example:**

```
>>> from django.db import model
>>> from django.contrib.auth.models import User
>>> class Article(models.Model):
>>>     title = models.CharField('title', max_length=200)
>>>     author = models.ForeignKey(User, null=True,
>>>                               related_name='permission_test_articles_author')
>>>     editors = models.ManyToManyField(User,
>>>                                     related_name='permission_test_articles_editors')
>>> user = User.objects.create_user('test_user', 'password')
>>> article = Article.objects.create(title='test_article',
...                               author=user)
>>> article.editors.add(user)
>>> assert 'test_article' == field_lookup(article, 'title')
>>> assert 'test_user' == field_lookup(article, 'user__username')
>>> assert ['test_user'] == list(field_lookup(article,
...                                       'editors__username'))
```

### permission.utils.handlers module

A utilities of permission handler

**class** permission.utils.handlers.**PermissionHandlerRegistry**

Bases: object

A registry class of permission handler

#### Methods

**get\_handlers** ()

Get registered handler instances

**Returns** tuple

permission handler tuple

**register** (*model, handler=None*)

Register a permission handler to the model

**Parameters** **model** : django model class

A django model class

**handler** : permission handler class or None

A permission handler class

**Raises** **ImproperlyConfigured**

Raise when the model is abstract model

**KeyError**

Raise when the model is already registered in registry The model cannot have more than one handler.

**unregister** (*model*)

Unregister a permission handler from the model

**Parameters** **model** : django model class

A django model class

**handler** : permission handler class or None

A permission handler class

**Raises** **KeyError**

Raise when the model have not registered in registry yet.

### permission.utils.logics module

Permission logic utilities

`permission.utils.logics.add_permission_logic(model, permission_logic)`

Add permission logic to the model

**Parameters** **model** : django model class

A django model class which will be treated by the specified permission logic

**permission\_logic** : permission logic instance

A permission logic instance which will be used to determine permission of the model

### Examples

```
>>> from django.db import models
>>> from permission.logics import PermissionLogic
>>> class Mock(models.Model):
...     name = models.CharField('name', max_length=120)
>>> add_permission_logic(Mock, PermissionLogic())
```

`permission.utils.logics.remove_permission_logic(model, permission_logic, fail_silently=True)`

Remove permission logic to the model

**Parameters** **model** : django model class

A django model class which will be treated by the specified permission logic

**permission\_logic** : permission logic class or instance

A permission logic class or instance which will be used to determine permission of the model

**fail\_silently** : boolean

If *True* then do not raise **KeyError** even the specified permission logic have not registered.

## Examples

```
>>> from django.db import models
>>> from permission.logics import PermissionLogic
>>> class Mock(models.Model):
...     name = models.CharField('name', max_length=120)
>>> logic = PermissionLogic()
>>> add_permission_logic(Mock, logic)
>>> remove_permission_logic(Mock, logic)
```

## permission.utils.permissions module

Permission utility module.

In this module, term *perm* indicate the identifier string permission written in ‘app\_label.codename’ format.

`permission.utils.permissions.get_app_perms(model_or_app_label)`

Get *perm* (a string in format of ‘app\_label.codename’) list of the specified django application.

**Parameters** `model_or_app_label` : model class or string

A model class or app\_label string to specify the particular django application.

**Returns** set

A set of perms of the specified django application.

## Examples

```
>>> perms1 = get_app_perms('auth')
>>> perms2 = get_app_perms(Permission)
>>> perms1 == perms2
True
```

`permission.utils.permissions.get_model_perms(model)`

Get *perm* (a string in format of ‘app\_label.codename’) list of the specified django model.

**Parameters** `model` : model class

A model class to specify the particular django model.

**Returns** set

A set of perms of the specified django model.

## Examples

```
>>> sorted(get_model_perms(Permission)) == ['auth.add_permission', 'auth.change_permission', 'au
True
```

`permission.utils.permissions.get_perm_codename(perm, fail_silently=True)`

Get permission codename from permission string



## Examples

```

>>> get_perm_codename('app_label.codename_model') == 'codename_model'
True
>>> get_perm_codename('app_label.codename') == 'codename'
True
>>> get_perm_codename('codename_model') == 'codename_model'
True
>>> get_perm_codename('codename') == 'codename'
True
>>> get_perm_codename('app_label.app_label.codename_model') == 'app_label.codename_model'
True

```

`permission.utils.permissions.perm_to_permission(perm)`

Convert a identifier string permission format in 'app\_label.codename' (teremd as *perm*) to a django permission instance.

## Examples

```

>>> permission = perm_to_permission('auth.add_user')
>>> permission.content_type.app_label == 'auth'
True
>>> permission.codename == 'add_user'
True

```

`permission.utils.permissions.permission_to_perm(permission)`

Convert a django permission instance to a identifier string permission format in 'app\_label.codename' (termed as *perm*).

## Examples

```

>>> permission = Permission.objects.get(
...     content_type__app_label='auth',
...     codename='add_user',
... )
>>> permission_to_perm(permission) == 'auth.add_user'
True

```

## Module contents

### 2.1.2 Submodules

### 2.1.3 permission.backends module

Logical permission backends module

**class** `permission.backends.PermissionBackend`

Bases: `object`

A handler based permission backend

## Methods

**authenticate** (*username, password*)

Always return `None` to prevent authentication within this backend.

**has\_module\_perms** (*user\_obj, app\_label*)

Check if user have permission of specified app based on registered handlers.

It will raise `ObjectDoesNotExist` exception when the specified string permission does not exist and `PERMISSION_CHECK_PERMISSION_PRESENCE` is `True` in `settings` module.

**Parameters** `user_obj` : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Wheter the specified user have specified permission (of specified object).

**Raises** `django.core.exceptions.ObjectDoesNotExist`

If the specified string permission does not exist and `PERMISSION_CHECK_PERMISSION_PRESENCE` is `True` in `settings` module.

**has\_perm** (*user\_obj, perm, obj=None*)

Check if user have permission (of object) based on registered handlers.

It will raise `ObjectDoesNotExist` exception when the specified string permission does not exist and `PERMISSION_CHECK_PERMISSION_PRESENCE` is `True` in `settings` module.

**Parameters** `user_obj` : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Wheter the specified user have specified permission (of specified object).

**Raises** `django.core.exceptions.ObjectDoesNotExist`

If the specified string permission does not exist and `PERMISSION_CHECK_PERMISSION_PRESENCE` is `True` in `settings` module.

**supports\_anonymous\_user** = `True`

**supports\_inactive\_user** = `True`

**supports\_object\_permissions** = `True`

## 2.1.4 permission.compat module

`permission.compat.isiterable(x)`

## 2.1.5 permission.conf module

django-permission application configure

## 2.1.6 permission.handlers module

**class** `permission.handlers.LogicalPermissionHandler(model)`

Bases: `permission.handlers.PermissionHandler`

Permission handler class which use permission logics to determine the permission

### Attributes

### Methods

**has\_perm**(*user\_obj*, *perm*, *obj=None*)

Check if user have permission (of object) based on specified models's `_permission_logics` attribute.

The result will be stored in `user_obj` as a cache to reduce method call.

**Parameters** `user_obj` : django user model instance

A django user model instance which be checked

**perm** : string

`app_label.codename` formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Wheter the specified user have specified permission (of specified object).

**class** `permission.handlers.PermissionHandler(model_or_app_label)`

Bases: `object`

Abstract permission handler class

### Attributes

### Methods

**excludes**

**get\_supported\_app\_labels**()

Get app labels which this handler can treat. Specified with `includes` and `excludes` of this instance.

**Returns** set

A set instance of `app_label`

**get\_supported\_permissions** ()

Get permissions which this handler can treat. Specified with *includes* and *excludes* of this instance.

**Returns** set

A set instance of *app\_label.codename* formatted permission strings

**has\_module\_perms** (*user\_obj*, *app\_label*)

Check if user have permission of specified app

**Parameters** **user\_obj** : django user model instance

A django user model instance which be checked

**app\_label** : string

Django application name

**Returns** boolean

Wheter the specified user have any permissions of specified app

**has\_perm** (*user\_obj*, *perm*, *obj=None*)

Check if user have permission (of object)

**Parameters** **user\_obj** : django user model instance

A django user model instance which be checked

**perm** : string

*app\_label.codename* formatted permission string

**obj** : None or django model instance

None or django model instance for object permission

**Returns** boolean

Wheter the specified user have specified permission (of specified object).

---

**Note:** Sub class must override this method.

---

**includes**

## 2.1.7 permission.models module

### 2.1.8 Module contents

django-permission

---

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