
Bambu API Documentation

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Quickly expose your models to a JSON or XML API, authenticated via HTTP or OAuth.

About Bambu API

This package allows you to easily expose Django models to RESTful endpoints which can send data in XML or JSON format.

About Bambu Tools 2.0

This is part of a toolset called Bambu Tools. It's being moved from a namespace of `bambu` to its own 'root-level' package, along with all the other tools in the set. If you're upgrading from a version prior to 2.0, please make sure to update your code to use `bambu_api` rather than `bambu.api`.

Installation

Install the package via Pip:

```
pip install bambu-api
```

Add it to your `INSTALLED_APPS` list:

```
INSTALLED_APPS = (  
    ...  
    'bambu_api'  
)
```

Add `bambu_api.urls` to your `URLconf`:

```
urlpatterns = patterns('',  
    ...  
    url(r'^$', include('bambu_api.urls')),  
)
```

The prefix should be kept blank, as the package exposes two main URL stems: `/api/`, wherein the RESTful endpoints live, and `/docs/` where auto-generated documentation for each endpoint is found.

Basic usage

You define API endpoints like Django admins, and register them in a similar way.

Taka the Django ‘polls’ app as an example. Within the polls directory, you’d create a file called api.py. A simple API endpoint would be defined like this:

```
from bambu_api import ModelAPI, site
from myproject.polls.models import Question

class QuestionAPI(ModelAPI):
    pass

site.register(Question, QuestionAPI)
```

This registers the `QuestionAPI` endpoint for the `Question` model. The endpoint is then accessible at `/api/polls/question.json`.

Questions or suggestions?

Find me on Twitter ([@iamsteadman](#)) or visit my [blog](#).

Defining and registering endpoints

Settings

API_AUTH_BACKEND The provider used to authenticate users through the API (default is 'bambu_api.auth.http.HTTPAuthentication')

API_AUTH_REALM The HTTP authentication realm (default is 'Restricted access')

API_LOGIN_URL The URL to redirect anonymous API users to (defaults to the result of reversing the URL name 'login')

API_AUTH_ALLOW_REGISTRATION When `True`, this allows users to sign up via the API thus creating an `auth.User` object (defaults to `False`)

API_ALLOW_USER_MANAGEMENT When `True`, allows users to edit their login details via the API (defaults to `False`)

API_ALLOW_GROUP_MANAGEMENT When `True`, allows authenticated users to create, read, update and delete `auth.Group` objects (defaults to `False`)

API_CACHE_VARY_HEADERS Which HTTP headers are used to decide whether to cache content or not. Defaults to 'Cookie'

API_THROTTLE_REQUESTS The number of requests permitted in X minutes (where X is the value of `API_THROTTLE_MINUTES`). The default is 60.

API_THROTTLE_MINUTES The number of minutes that defines how many requests to allow before throttling. The default is 1.

API_REQUEST_LOGGER The default request logger to use (the means by which throttling occurs). Specify the fully qualified module and class name of the logger. Defaults to 'bambu_api.requestlogging.DatabaseRequestLogger'

Redis-specific settings

If using Redis to log the number of requests by a specific app for throttling, you can configure Bambu API to use a specific host and database

API_REDIS_HOST The Redis host to use (defaults to 'localhost')

API_REDIS_PORT The Redis port to use (defaults to 6379)

API_REDIS_DB The index of the Redis database to use (defaults to 0)

`API_REDIS_PASSWORD` The password for the Redis database (defaults to ‘')

Throttling requests

Internal requests

Making data ready for serialisation

Serialising data

Authentication

Built-in providers

Decorators

API reference

Decorators

Exceptions

Helper functions

Menus

Provides a menu builder used by `bambu_navigation`.

Models

Managers

Responses

The API site

URLconf

Indices and tables

- `genindex`
- `modindex`
- `search`