
Bambu API Documentation

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

CHAPTER 1

About Bambu API

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

CHAPTER 2

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`.

CHAPTER 3

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.

CHAPTER 4

Basic usage

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

Take 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.

CHAPTER 5

Questions or suggestions?

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

CHAPTER 6

Contents

Defining and registering endpoints

Settings

API_AUTH_BACKEND The provider used to authenticate users through the API (default is ‘bamboo_api.auth.http.HTTTPAuthentication’)

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 ‘bamboo_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 ‘’)

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Serialising data

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CHAPTER 7

API reference

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Menus

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Models

Managers

Responses

The API site

URLconf

CHAPTER 8

Indices and tables

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- modindex
- search