# Django Tastypie Swagger Documentation

Release 0.1.3

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# **Synopsis**

 $\textbf{django-tastypie-swagger} \ is \ a \ small \ adapter \ library \ to \ construct \ Swagger \ documentation \ from \ Tastypie \ resources.$ 

This package provides two things:

- 1. An embedded instance of Swagger UI to point a URL to.
- 2. Automatic Resource Listing and API Declaration generation that is consumed by #1

## **Usage**

#### Install package:

```
pip install django-tastypie-swagger
```

#### Add to INSTALLED\_APPS:

```
INSTALLED_APPS = [
    ...
    'tastypie_swagger',
    ...
]
```

Enable documentation for an api endpoint by adding a URL to your urlpatterns.

eg:

- The namespace is repeated on purpose to go around some limitations and should be unique amongst the other urls you have defined.
- The tastypie\_api\_module is either your Tastypie api instance or a string containing the full path to your Tastypie api instance.

To declare more than one endpoint, repeat the above URL definition and change the namespace.

Swagger documentation will be served up at the URL(s) you configured.

### 2.1 Using extra\_actions

While most **ModelResource** based endpoints are good *as-is* there are times when adding additional functionality (like search) is required. In Tastypie the recommended way do to this is by overriding the prepend\_urls function and returning a list of urls that describe additional endpoints. How do you make the schema map represent these endpoints so they are properly documented?

Add an attribute to the Meta class inside your **ModelResource** class called extra\_actions. Following the Tastypie search example, here is how extra\_actions should be defined:

extra actions is a list of dictionary objects that define extra endpoints that are unavailable to introspection.

**Important:** extra\_actions feeds directly into the schema **for swagger**. It does not alter the Tastypie schema listing Tastypie provides.

Top level keys and meaning in the extra\_actions dictionary:

- name: Required. Nickname of the resource.
- http\_method: Defaults to "GET". HTTP method allowed here as a string. Will be uppercased on output.
- resource\_type: If this is declared as "list" then the endpoint will not include a {id} parameter in the uri or in the parameters list. This is applicable to endpoints such as the above example that filter or perform actions across many items. If resource\_type is omitted and the http\_method is "GET" then the endpoint will default to "view" and include a {id} parameter in the uri and parameter list.
- summary: Description of this endpoint.
- fields: **Optional** Dictionary of parameters this endpoint accepts.

Field dictionaries are declared in a { "name": { [options dict] } style. This is done for compatibility reasons with older versions of django-tastypie-swagger.

Warning: The structure of fields will likely change in future versions if Joshua Kehn continues committing.

Available keys and meaning for the fields dictionary:

- type: Defaults to "string". Parameter type.
- required: Defaults to False.
- description: Defaults to "" (empty string). Description of this parameter.

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## 2.2 Detecting required fields

Tastypie 0.9.11 **ModelResource** fields do not respect the *blank* attribute on django model fields, which this library depends on to determine if a field is required or not.

You can use this ModelResource subclass as a workaround to this issue.

## 2.3 Using plural names for resources

It is possible to define a *plural* name for a resource, using this attribute in the class' Meta:

```
class ShoeResource(Resource): size = ... brand = ...
class Meta: resource_name = 'shoe' resource_name_plural = 'shoes'
```

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