
Django Tastypie Swagger Documentation

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Synopsis

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:

```
urlpatterns = patterns('',  
    ...  
    url(r'api/myapi/doc/',  
        include('tastypie_swagger.urls', namespace='myapi_tastypie_swagger'),  
        kwargs={"tastypie_api_module": "myapp.registration.my_api", "namespace": "myapi_tastypie_swagger"},  
    ),  
    ...  
)
```

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 to do 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:

```
class Meta:
    ...
    extra_actions = [
        {
            "name": "search",
            "http_method": "GET",
            "resource_type": "list",
            "description": "Seach endpoint",
            "fields": {
                "q": {
                    "type": "string",
                    "required": True,
                    "description": "Search query terms"
                }
            }
        }
    ]
```

`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 compatability 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.

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.

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