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# **django-paste**

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**Aristotelis Mikropoulos**

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## PLUGGABLE, CONFIGURABLE, PASTEBIN HTTP REST API

*django-paste* is a simple [Django](#) pluggable app of a code pasting and highlighting HTTP REST API, written using [Django REST framework](#). It supports the [CRUD](#) operations on source code snippets and uses any existing user authentication system. Syntax highlighting is powered by [Pygments](#).

### 1.1 Installation

The following Python versions are supported:

- CPython: 3.6, 3.7, 3.8, 3.9
- PyPy: 3.6

Django:

- 2.0, 2.1, 2.2
- 3.0, 3.1
- Install via [pip](#):

```
$ pip install django-paste
```

- Add it to your `INSTALLED_APPS`:

```
INSTALLED_APPS = [  
    # ...  
    'paste.apps.PasteConfig',  
]
```

- Register the app's URLs under a path of your choice:

```
urlpatterns = [  
    # ...  
    path('some-path/', include('paste.urls')),  
]
```

where 'some-path/' could be any URL.

- Optionally, configure the app [settings](#).
- Generate and run the database migrations:

```
$ python manage.py makemigrations paste  
$ python manage.py migrate
```

## 1.2 API

### 1.2.1 Endpoints

*/*  
*Snippet list*

- GET** List viewable snippets.
- POST** Create new snippet.

*/ {snippet-id} /*  
*Snippet detail*

- GET** View queried snippet.
- PUT** Update queried snippet.
- PATCH** Partially update queried snippet.
- DELETE** Delete queried snippet.

*/user/ {user-id} /*  
*User snippet list*

- GET** List queried user's viewable snippets.

*/ {snippet-id} /highlight /*  
*Snippet highlight*

- GET** View queried snippet's highlighted content, as HTML. If `full` exists as a query parameter, get a full HTML document.

### 1.2.2 Content Types

The API can parse data of the following content types:

- `application/json`
- `application/x-www-form-urlencoded`
- `multipart/form-data`

It can render its responses in the following formats:

- `application/json`
- `text/html`

A client can request the response in a specific format either by sending an `Accept` header, or by appending `.json` or `.api` to the URL, for JSON and HTML content, respectively.

## 1.3 Fields

The following fields of snippets have a value automatically generated for them and hence clients are not supposed to explicitly provide them:

- *id*
- *created*
- *updated*
- *owner*

The rest of the fields are optional, except for *content*:

- *content*
- *language*
- *style*
- *line\_numbers*
- *embed\_title*
- *private*

In more detail:

### **id**

**Type** number

**Read only** yes

The snippet's primary key in the database.

### **content**

**Type** string

**Required** yes

The source code of the snippet.

### **language**

**Type** string

The programming language of the snippet. Must be a valid Pygments lexer name.

### **style**

**Type** string

The style the snippet should be highlighted with. Must be a valid Pygments style name.

### **line\_numbers**

**Type** boolean

**Default** `DEFAULT_LINE_NUMBERS`

Whether line numbers should be shown in the snippet's highlight view.

### **embed\_title**

**Type** boolean

**Default** `DEFAULT_EMBED_TITLE`

Whether the title of the snippet should be included in its full highlight view.

**private**

**Type** boolean

**Default** `DEFAULT_PRIVATE`

Whether the snippet should be only viewable by its owner and staff users.

**created**

**Type** string

**Read only** yes

The datetime of the snippet's creation.

**updated**

**Type** string

**Read only** yes

The datetime of the snippet's last modification.

**owner**

**Type** number / null

**Read only** yes

The primary key in the database of the user who created the snippet. If that user was unauthenticated, this field is null.

## 1.4 Settings

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**Note:** Every time you change settings related to the database, you should then generate and run database migrations.

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All the settings of *django-admin* have default values, which can get overridden. This is done by defining a `PASTE` dict in your Django project's settings file, with any of the following keys:

**DEFAULT\_EMBED\_TITLE**

**Type** bool

**Default** True

Whether the title of a snippet should be included in its full highlight view, in case the relative field is not set for it.

**DEFAULT\_LANGUAGE**

**Type** str

**Default** 'text'

The Pygments lexer name (programming language) used for the highlighting of a snippet, in case the relative field is not set for it, and the `GUESS_LEXER` setting is False.

**DEFAULT\_LINE\_NUMBERS**

**Type** bool



**Default** `True`

Whether line numbers should be shown in a snippet's highlight view, in case the `relative` field is not set for it.

**DEFAULT\_PRIVATE**

**Type** `bool`

**Default** `False`

Whether a snippet should be only viewable by its owner and staff users, in case the `relative` field is not set for it.

**DEFAULT\_STYLE**

**Type** `str`

**Default** `'default'`

The Pygments style for the highlighting of a snippet, in case the `relative` field is not set for it.

**FORBID\_ANONYMOUS**

**Type** `bool`

**Default** `False`

Whether to forbid any API access to unauthenticated users.

**FORBID\_ANONYMOUS\_CREATE**

**Type** `bool`

**Default** `False`

Whether to forbid snippet creation to unauthenticated users.

**FORBID\_ANONYMOUS\_LIST**

**Type** `bool`

**Default** `False`

Whether to forbid snippet listing to unauthenticated users.

**FORBID\_LIST**

**Type** `bool`

**Default** `False`

Whether to forbid snippet listing to non-staff users.

**GUESS\_LEXER**

**Type** `bool`

**Default** `True`

Whether to let Pygments guess a lexer for the highlighting of a snippet, in case the `language` field is not set for it. If this setting is `False` and a language is not set for a snippet, the `DEFAULT_LANGUAGE` setting is considered for its highlighting.

**TITLE\_MAX\_LENGTH**

**Type** `int`

**Default** `100`

The maximum character length for the `title` field of snippets.



## Symbols

/  
 configuration value, 2  
 /{snippet-id}/  
 configuration value, 2  
 /{snippet-id}/highlight/  
 configuration value, 2  
 /user/{user-id}/  
 configuration value, 2

## C

configuration value  
 /, 2  
 /{snippet-id}/, 2  
 /{snippet-id}/highlight/, 2  
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 DEFAULT\_LINE\_NUMBERS  
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 DEFAULT\_PRIVATE  
 configuration value, 5  
 DEFAULT\_STYLE  
 configuration value, 5

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FORBID\_ANONYMOUS  
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 FORBID\_ANONYMOUS\_CREATE  
 configuration value, 5  
 FORBID\_ANONYMOUS\_LIST  
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GUESS\_LEXER  
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## I

id  
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## L

language  
 configuration value, 3  
 line\_numbers  
 configuration value, 3

## O

owner

configuration value, [4](#)

## P

private

configuration value, [4](#)

## S

style

configuration value, [3](#)

## T

TITLE\_MAX\_LENGTH

configuration value, [5](#)

## U

updated

configuration value, [4](#)