

REDPLAG

API-endpoint documentation

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Note: Authentication of user login is via Google Firebase. So, no implementation of any django endpoints regarding authentication.

1) /download/{file_name}/ :

Method :

GET

Parameters :

- a. In the url of GET request :-

file_name : a string, which acts as a 'keyword' for the backend to decide which file to return.

See description for more information.

Return Value :

a HTTPResponse, with content as the required file (inferred by "file_name").

Description :

- 1) Downloads the results obtained from processing (Plagiarism Checking) the zip-file's contents.
- 2) Various **file_name** values signify:
 - **file_name = "png"** : returns an image in the content of HTTPResponse.
 - **file_name = "csv"** : returns a csv file in the content of HTTPResponse.
- 3) Downloadable results consist of a csv file showing the plagiarism percentages between the files, decreasingly sorted; and also an image depicting the Plagiarism-Percentages between the files, as a heatmap-matrix.

2) /upload/{func_code}/ :

Method :

POST

Parameters :

- a. In **body** of POST request :-

FormData() AngularObject : consists of file as blob, file's name.

json-format : { "file", <blob> (i.e. file), <string> (i.e. filename) }

- b. In **url** of POST request :-

func_code : an integer, with values from {0, 1, 2, 3, 5}. See Description for more information.

Return Value :

Default HTTPResponse.

Description :

- 1) Uploads a zip-file (or a single stubCode) to the backend and processes it to find the plagiarism percentages between the constituent files of the zip-file.
- 2) Expects a zip-file (with func_code from {0, 1, 2, 3}) (or) a single text file (with func_code = 5).
- 3) All files to be Plag-Checked, should be **present immediately** inside the zip-file. i.e. they **shouldn't** be present inside a folder inside the zip-file.
- 4) Various **func_code** values signify : (func_code is sent in the **url part** of POST request)
 - **func_code = 5** : file sent will be interpreted as a **text-file containing stub code**.
 - **func_code = 0 (or) 1 (or) 2 (or) 3** : file sent is saved as a **zip file** and will be processed as described below:
 - **= 0** : files inside zip-file will be processed as if they are **text files** and with **NO stub code** given.
 - **= 1** : files inside zip-file will be processed as if they are **C++ files** and with **NO stub code** given.
 - **= 2** : files inside zip-file will be processed as if they are **text files** with **stub code** given.
 - **= 3** : files inside zip-file will be processed as if they are **C++ files** with **stub code** given.
- 5) **Caution:** when a new zip-file is uploaded, all old results and files, if any present, are deleted.