**Reddit REST API**

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**Overview**

The reddit.py application creates a Flask instance. There are two REST API end points, as described in section API Documentation. The program creates a praw Reddit instance, then requests LIMIT (set at 200) hot Reddit posts. Each post’s URL is analyzed to determine whether the content is an image. NOTE: While the application requests 200 Reddit posts, the only ones which are returned in the REST API are ones that are image content.

**Order Description**

**Top –** The top content is in the order that is returned on the Reddit home page, which is returned by selecting the hot tab

**Popular –** The popular content is in reverse sorted order of the number of votes (highest number of votes are first)

**Further Work**

The next items to be completed include:

* Create a simple HTML page to display the Flask API results
* Check and modify the algorithm which checks for image content, contained in the function **redditImageType** to check for all types and limit algorithm execution run-time
* UnitTest to test all of the functions in the flask application
* Add code to check for exceptions, error conditions and edge cases

**Python Packages**

The following Python packages are required for this application to execute:

* praw – Python Reddit API
* flask – Flask framework
* flask\_restful – Flask restful API

**API Documentation**

**GET / or /top**

**Description:**

Get a list of Reddit images which are returned in the order of the Reddit home page, also known as the hot items

**Response Body:**

JSON list of Reddit image entries in TOP order, each item contains the following items, as described in the example below (shows one item)

[

{

‘title’: String – The Reddit title of the content

‘score’: Integer – The Reddit vote score

‘id’: String – The Reddit id of the content

‘url’: Unicode - The Reddit url of the image content

‘nbr’: Integer - The item number 0 to N

}

]

**Response Messages:**

**HTTP Status Code Reason**

200 Success

404 Category not found

**GET /popular**

**Description:**

Get a list of Reddit images which are returned in the order of the Reddit vote score

**Response Body:**

JSON list of Reddit image entries in TOP order (shows one item)

[

{

‘title’: String – The Reddit title of the content

‘score’: Integer – The Reddit vote score

‘id’: String – The Reddit id of the content

‘url’: Unicode - The Reddit url of the image content

‘nbr’: Integer - The item number 0 to N

}

]

**Response Messages:**

**HTTP Status Code Reason**

200 Success

404 Category not found