

Project for Python Engineer at AnyMind Group

Notes:

- The deadline is within 5 days from today
- Push your code to your public repository on GitHub
- This is a simple project. We'll not look into whether you can do it or not, but the details.
- You can choose any tool you like for this project but the programming language should be Python 3.7, 3.8, or 3.9
- You can use any Python web framework (Django, Flask, Tornado,...etc) you prefer
- Please develop this application in anticipation of adding features in the future.
- Make sure you have it tested
- We'll review your documentation as well

Tips:

- The repository should have a readme file with clear instructions of how to deploy/install locally
- **DON'T use public available Twitter SDK instead please implement your own**
- Include unit tests

Project description:

The main job will be to develop two RESTful API endpoint to provide data from Twitter. You can get data from Twitter **by Twitter API or scraping in real-time.**

1. Get tweets by a hashtag. Get the list of tweets with the given hashtag.

Optional parameters:

- limit: integer, specifies the number of tweets to retrieve, the default should be 30

Example request:

```
curl -H "Accept: application/json" -X GET http://localhost:xxxx/hashtags/Python?limit=40
```

Example response:

```
[{"account": {"fullname": "Raymond Hettinger",
             "href": "/raymondh",
             "id": 14159138},
 "date": "12:57 PM - 7 Mar 2018",
 "hashtags": ["#python"],
 "likes": 169,
 "replies": 13,
 "retweets": 27,
 "text": "Historically, bash filename pattern matching was known
         as \"globbing\". Hence, the #python module
         called \"glob\".\n\n
         >>> print(glob.glob('*.py'))\n\n
         If the function were being added today, it would probably
         be called os.path.expand_wildcards('*.py') which would be
         less arcane."},
 ...
]
```

2. Get user tweets. Get the list of tweets that the user has on his feed in JSON format.

Optional parameters:

- limit: integer, specifies the number of tweets to retrieve, the default should be 30

Example request:

```
curl -H "Accept: application/json" -X GET http://localhost:xxxx/users/twitter?limit=20
```

Example response:

```
[{"account": {"fullname": "Twitter",
             "href": "/Twitter",
             "id": 783214},
 "date": "2:54 PM - 8 Mar 2018",
 "hashtags": ["#InternationalWomensDay"],
 "likes": 287,
 "replies": 17,
 "retweets": 70,
 "text": "Powerful voices. Inspiring women.\n\n#InternationalWomensDay"}]
```

<https://twitter.com/i/moments/971870564246634496>"},

...

]