

DE Packt Assignment

In this Project, I Just tried using only one api of questions from stack overflow from the link given, and tried only basic opeations on it, which was in the example.

We could do mutple operations and graphs using few of the same approaches in the below and add few features if needed

```
In [305]: import requests
import matplotlib.pyplot as plt
import json
class StackOverflowAPI:
    def __init__(self):
        self.main = 'https://api.stackexchange.com/'
        self.everything = '2.3/questions?order=desc&sort=activity&site=stackoverflow'

    def get_data(self, endpoint):
        response = requests.get(self.main + endpoint)
        return json.loads(response.text)

    def get_everything(self):
        response_json = self.get_data(self.everything)
        return response_json

    def get_tag_count(self, parse_json):
        count = 0
        set1 = set()
        list1 = []
        for i in range(len(parse_json['items'])):
            for j in range(len(parse_json['items'][i]['tags'])):
                set1.add(parse_json['items'][i]['tags'][j])
                list1.append(parse_json['items'][i]['tags'][j])
        m = {}
        for i in range(len(set1)):
            m[list(set1)[i]] = list1.count(list(set1)[i])
        print('Plot of first 5 tags with count')
        plt.plot(list(m.keys())[:5], list(m.values())[:5])
        return m

    def plot_top_tags(self, dict_count_tags, number):
        dict_count_tags = dict(sorted(dict_count_tags.items(), key=
lambda x: x[1], reverse=True))
        print("The plot of top " + str(number) + " tags")
        plt.plot(list(dict_count_tags.keys())[:number], list(dict_c
ount_tags.values())[:number])

    def get_is_answered_true(self, parse_json):
```

```

count = 0
print('The account_ids are')
for i in range(len(parse_json['items'])):
    if parse_json['items'][i]['is_answered'] == True:
        print(parse_json['items'][i]['owner']['account_id'])
)
count += 1
print('The count of answered true is ' + str(count))

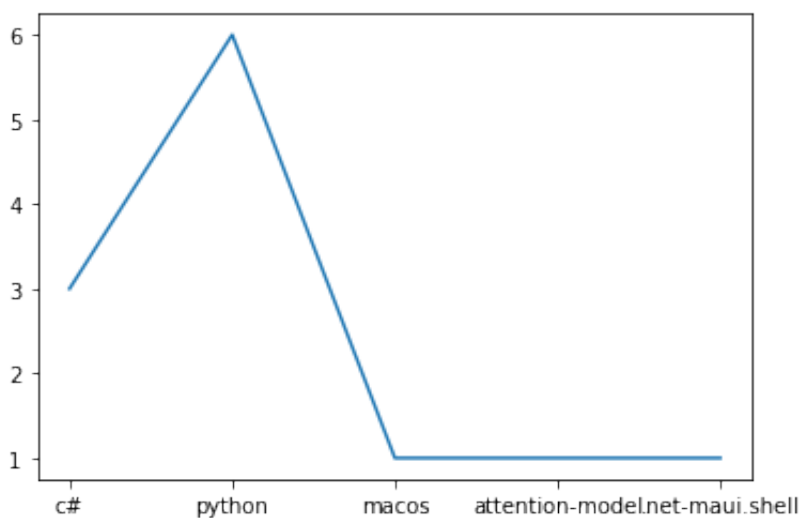
def get_question_answers(self, id1):
    get_with_id = "/2.3/questions/" + str(id1) + "/answers?order=desc&sort=activity&site=stackoverflow"
    response_API_id = requests.get(self.main+get_with_id)
    parse_json1 = json.loads(response_API_id.text)
    print(parse_json1)
    return parse_json1

```

```
In [306]: api = StackOverflowAPI()
data = api.get_everything()
```

```
In [307]: tag_count = api.get_tag_count(data)
```

Plot of first 5 tags with count



```
In [308]: api.get_is_answered_true(data)
```

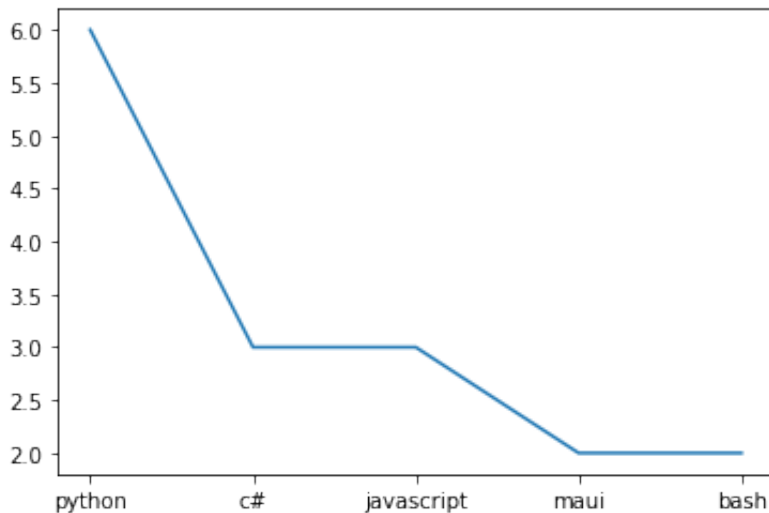
```

The account_ids are
20212731
8117081
2482984
11910594
8880336
The count of answered true is 5

```

```
In [309]: api.plot_top_tags(tag_count, 5)  
#This gives the top 5 tags used
```

The plot of top 5 tags



```
In [310]: question_answers = api.get_question_answers(76633777)  
  
{  
  'items': [  
    {'owner': {'account_id': 15401957, 'reputation': 5097,  
      'user_id': 11111119, 'user_type': 'registered', 'profile_image': '  
      https://www.gravatar.com/avatar/19bab1171a32a7be7d9e15c5d42e3614?s  
      =256&d=identicon&r=PG', 'display_name': 'John', 'link': 'https://s  
      tackoverflow.com/users/11111119/john'}, 'is_accepted': False, 'sco  
      re': 0, 'last_activity_date': 1688706477, 'last_edit_date': 168870  
      6477, 'creation_date': 1688705984, 'answer_id': 76634055, 'questio  
      n_id': 76633777, 'content_license': 'CC BY-SA 4.0'}], 'has_more':  
    False, 'quota_max': 300, 'quota_remaining': 183}
```

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