How to run the program?

IS 452A
FInal program interpretation
Wang Ke-Rou (Elyse)

Please see my readme file posted on a public Github post here:
https://github.com/elysewang25/IS452A_FinalProject/blob/master/readme.md

Part 1. Mining data by using facebook API

First, create a facebook developer account and then visit this webpage : https://developers.facebook.com/docs/facebook-login/access-tokens/

Access Tokens

When someone connects with an app using Facebook Login and approves the request for permissions, the app obtains an access token that provides temporary, secure access to Facebook APIs.

You can see a list of your access tokens and debugging information for each token in the Access Token Tool.

An access token is an opaque string that identifies a user, app, or Page and can be used by the app to make graph API calls. Access tokens are obtained via a number of methods, each of which are covered later in this document. The token includes information about when the token will expire and which app generated the token. Because of privacy checks, the majority of API calls on Facebook need to include an access token. There are different types of access tokens to support different use cases:

After this, press the “Access Token” bottom for receiving API token:

Access Token Tool

The user tokens listed here are provided for convenience to test your apps. They expire like any other user access token and should not be hard coded into your apps. App tokens do not expire and should be kept secret as they are related to your app secret. For more information on how access tokens work and should be used, see the documentation. If you want to debug an access token issue, try using the access token debugger.

Ke-Rou's first app

User Token	EAAa5vIGsXhIBAMgJOWTAJT9ZBYz0ZAqxRp0TGwj50MIUBFEVjH0cwZBOMEeXaxme62SJZBtgYE6RjlOplNZCN9	Debug
App Token	1893069140811282|Fs-e8gVBYjGA82tLMkw8spEnxHs	Debug

Copy the “User Token” part and then paste it into the **Final_GetData.py**, line 5, then run the program.

##p.s Before running the program, the facebook package as to be installed.

After running the program, a .txt file will be out-ported.

Part 2. Getting data

For getting data, the token has to be pasted on the **Final_GetData.py** file, line 5, then the program should be able to run.

```
4   #### change the token here ####
5   # token = 'EAAa5vIGsXhIBAHWRUZAFEl7xhXbYlP5Ebuj'
6   #### ---------------------- ####
```

After run through the program, we will receive a .txt file presented like below:


```
[{'id': '2198964263455717_2244276738924469', 'created_time': '2018-12-19T05:19:19+0000',
'comments_count': 1, 'likes_count': 2}, {'id': '2198964263455717_2243058569046286',
'created_time': '2018-12-18T08:57:49+0000', 'comments_count': 1, 'likes_count': 31},
{'id': '2198964263455717_2236827246336085', 'created_time': '2018-12-14T04:53:38+0000',
'comments_count': 5, 'likes_count': 32}, {'id': '2198964263455717_2235346313150845',
'created_time': '2018-12-13T03:32:22+0000', 'comments_count': 1, 'likes_count': 7}, {'id':
'2198964263455717_2231035146915295', 'created_time': '2018-12-10T05:37:19+0000',
'comments_count': 3, 'likes_count': 17}, {'id': '2198964263455717_2227449310607212',
'created_time': '2018-12-07T18:09:36+0000', 'comments_count': 0, 'likes_count': 24},
{'id': '2198964263455717_2218870108131799', 'created_time': '2018-12-02T02:36:38+0000',
'comments_count': 4, 'likes_count': 18}, {'id': '2198964263455717_2212359092116234',
'created_time': '2018-11-27T15:59:54+0000', 'comments_count': 0, 'likes_count': 0}, {'id':
'2198964263455717_2212288122123331', 'created_time': '2018-11-27T14:57:07+0000',
'comments_count': 1, 'likes_count': 31}, {'id': '2198964263455717_2207954242556719',
'created_time': '2018-11-24T15:25:50+0000', 'comments_count': 0, 'likes_count': 16},
{'id': '2198964263455717_2193524840666326', 'created_time': '2018-11-14T04:43:39+0000',
'comments_count': 3, 'likes_count': 47}, {'id': '2198964263455717_2192258924126251',
'created_time': '2018-11-13T07:48:09+0000', 'comments_count': 2, 'likes_count': 31},
{'id': '2198964263455717_2177421302276680', 'created_time': '2018-11-03T01:31:10+0000',
'comments_count': 4, 'likes_count': 23}, {'id': '2198964263455717_2174513589234118',
'created_time': '2018-11-01T04:00:40+0000', 'comments_count': 6, 'likes_count': 61},
{'id': '2198964263455717_2170302006321943', 'created_time': '2018-10-30T16:38:31+0000',
'comments_count': 5, 'likes_count': 40}, {'id': '2198964263455717_2163150337037110',
'created_time': '2018-10-27T00:07:57+0000', 'comments_count': 6, 'likes_count': 23},
{'id': '2198964263455717_2160147787337365', 'created_time': '2018-10-25T09:16:29+0000',
'comments_count': 0, 'likes_count': 0}, {'id': '2198964263455717_2153542437997900',
'created_time': '2018-10-20T22:03:49+0000', 'comments_count': 0, 'likes_count': 33},
{'id': '2198964263455717_2152520858100058', 'created_time': '2018-10-20T03:58:55+0000',
'comments_count': 1, 'likes_count': 0}, {'id': '2198964263455717_2150479184970892',
'created_time': '2018-10-18T14:51:18+0000', 'comments_count': 9, 'likes_count': 80},
```

How to run the program?

Part 3. Analyzing data

For analyze data and outport a bar graph, the outputted .txt file's name has to be pasted on the **Final_Analysis.py** file, line 7, then the program should be able to run.

```
6   ### change the target filename to analyze ###
7   # filename = 'Facebook_analysis.txt'
8   ### ---------------------------------- ###
```

After this, we should be able to receive a bar graph like this: