Developer Manual

Contents

System Requirements	3
Tools and Technologies	3
Installation Instructions	3
Python Installation	3
NodeJS Installation	5
Twitter Developer Account Setup	9
Steps for execution	12
Glossary of Errors	

System Requirements

Recommended System Requirements

Processors:

- Intel® Core™ i5 processor 4300M at 2.60 GHz or 2.59 GHz (1 socket, 2 cores, 2 threads per core), 8 GB of DRAM
- Intel® Xeon® processor E5-2698 v3 at 2.30 GHz (2 sockets, 16 cores each, 1 thread per core), 64 GB of DRAM
- Intel® Xeon Phi[™] processor 7210 at 1.30 GHz (1 socket, 64 cores, 4 threads per core), 32 GB of DRAM, 16 GB of MCDRAM (flat mode enabled)

Disk space: 2 to 3 GB

Operating systems: Windows® 10, macOS*, and Linux*

Minimum System Requirements

Processors: Intel Atom® processor or Intel® Core™ i3 processor

Disk space: 1 GB

Operating systems: Windows* 7 or later, macOS, and Linux

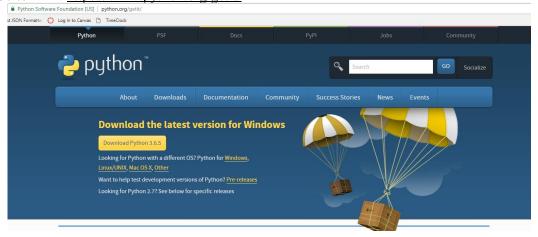
Tools and Technologies

- Python 3.6.X
- Google Docs
- Microsoft Visual Studio Code
- Python packages
 - \circ Tweepy -3.6.0
 - Twarc 1.6.1
 - o NLTK 3.3

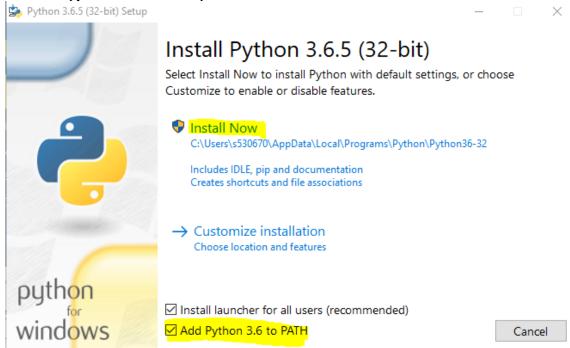
Installation Instructions

Python Installation

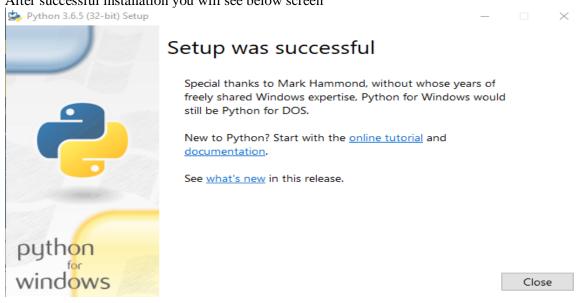
a. Go to Link: https://www.python.org/getit/



- b. Click on the Download the Python 3.6.5 button.
- c. A file starts downloading.
- d. Open the downloaded file
- e. Mark Add python 3.6 to PATH option and click on **Install now**



f. After successful installation you will see below screen



g. Open GitBash terminal or Command prompt anywhere on desktop and check the version by entering command **python –version**

```
C:\windows\system32\cmd.exe — X

Microsoft Windows [Version 10.0.16299.431]
(c) 2017 Microsoft Corporation. All rights reserved.

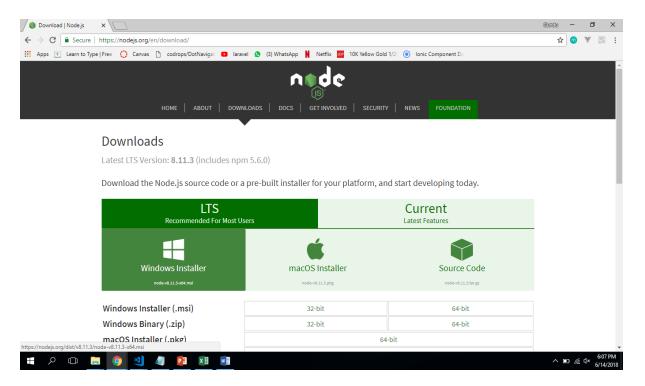
C:\Users\s530670>python --version

Python 3.6.5

C:\Users\s530670>
```

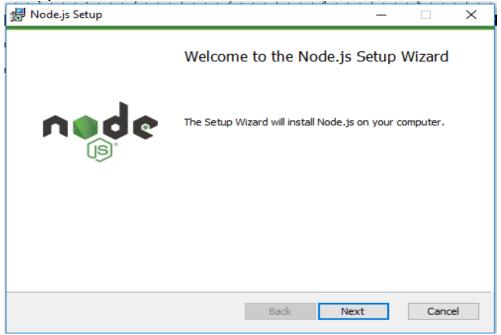
NodeJS Installation

h. Go to Link: https://nodejs.org/en/download/

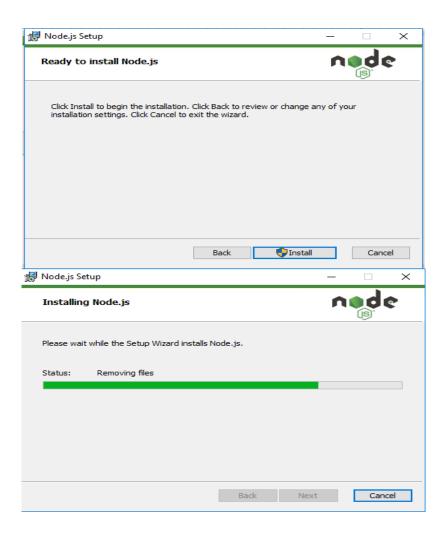


i. Select Windows Installer and you will be able to notice a file starts downloading.

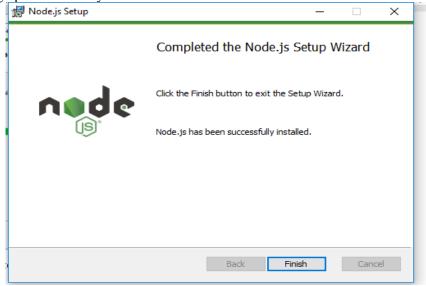
j. Open and setup the downloaded file.



k. Proceed till you install the NodeJS



1. After setting up the NodeJS you will be able to see the below screen

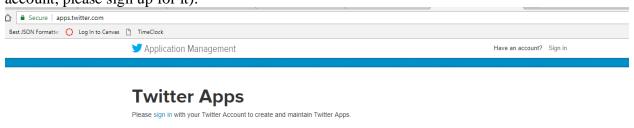


m. Open GitBash terminal or Command prompt anywhere on desktop and check the version by entering command \$node -v

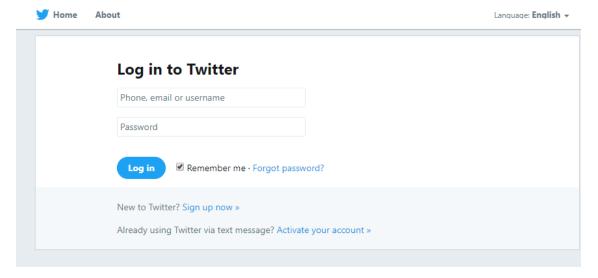


Twitter Developer Account Setup

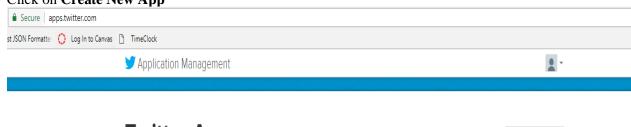
a. Go to Link: https://apps.twitter.com and click on sign in. (If you don't have twitter account, please sign up for it).



b. Sign in with your Twitter account



c. Click on Create New App

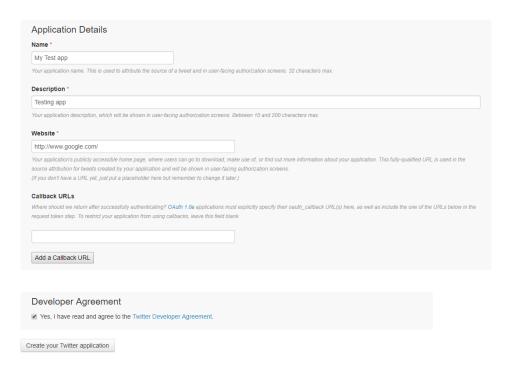


Twitter Apps

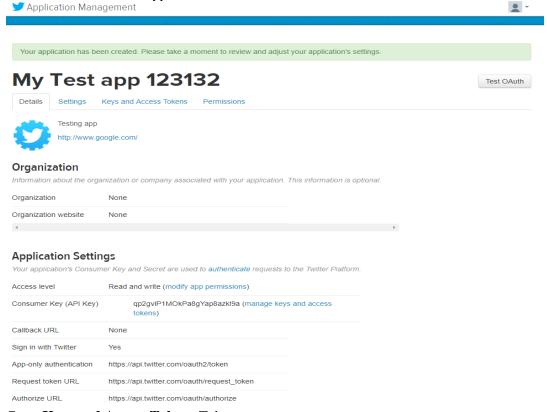
d. Fill in application details

Create New App

Create an application



e. You can able to see the app details as shown below



- f. Go to **Keys and Access Tokens** Tab
- g. Look for Create and my access token button and click on it

Your Access Token

You haven't authorized this application for your own account yet.

By creating your access token here, you will have everything you need to make API calls right away. The access token generated will be assigned your application's current permission level.

Token Actions

Create my access token

h. Make a note of OAuth Settings

- Consumer Key
- Consumer Secret
- OAuth Access Token
- OAuth Access Token Secret

Steps for execution

- 1. Fork the repo https://github.com/GDP-MI7/socio-analyzer.git and clone it.
- **2.** Go to custom_analyzer folder
- 3. Open command prompt / Gitbash with current directory
- 4. Run python dictionary_generation.py
- 5. Run **python analyzer.py**
- 6. You will get output_analyzer.csv file.

Glossary of Errors

1. Rate limit exceeded error

This error occurs due to twitter API limit for each 15 minutes window.

```
$530670@nw40129 MINGW64 /c/Personal/Python Projects/SentimentAnalysis/data_pull (master
$ python twar_api.py
WARNING:root:rate limit exceeded: sleeping 438.2711160182953 secs
WARNING:root:rate limit exceeded: sleeping 406.20541071891785 secs
WARNING:root:rate limit exceeded: sleeping 442.90397238731384 secs
WARNING:root:rate limit exceeded: sleeping 447.54904985427856 secs
Traceback (most recent call last):
    File "twar_api.py", line 12, in <module>
        for tweet in t.hydrate(open('./ids.txt')):
    File "C:\Users\S530670\AppData\Local\Programs\Python\Python36-32\lib\site-packages\two.emusetes = resp.json()
    File "C:\Users\S530670\AppData\Local\Programs\Python\Python36-32\lib\site-packages\readed
850, in json
```

2. Module not found error

Solution: pip install <module_name> pip install pyquery

```
File "C:\Users\5530465\Desktop\GetOldTweets-python\got3\manager\ init .py", line 2, in <module>
    from .TweetManager import TweetManager
 File "C:\Users\S530465\Desktop\GetOldTweets-python\got3\manager.py", line 3, in <module>
    from pyquery import PyQuery
ModuleNotFoundError: No module named 'pyquery'
PS C:\Users\S530465\Desktop\GetOldTweets-python> python Exporter.py -h
Traceback (most recent call last):
  File "Exporter.py", line 6, in <module>
    import got3 as got
  File "C:\Users\S530465\Desktop\GetOldTweets-python\got3\_init_.py", line 2, in <module>
    from . import manager
  File "C:\Users\5530465\Desktop\GetOldTweets-python\got3\manager\_init__.py", line 2, in <module>
    from .TweetManager import TweetManager
  File "C:\Users\S530465\Desktop\GetOldTweets-python\got3\manager\TweetManager.py", line 3, in <module>
    from pyquery import PyQuery
ModuleNotFoundError: No module named 'pyquery'
PS C:\Users\S530465\Desktop\GetOldTweets-python>
```