**Twitter-Python Bot**

The project was built using python as a programming language and employed API to tap into twitter’s content and bring the Top 10 Trending tweets from the Philippines into Slack, using GIT as an aid for the collaboration of the team members.

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**Project Chat:**

In Slack group, IS GHP 3, a channel called #python\_practice1 is used. Most of the team’s collaborative conversations were made through zoom and physical interaction.

**About dev/master branch:**

Dev branch has the most up-to-date features, but be aware that there might be some broken changes. Master branch is the stable branch.

**Features**

* Displays/Outputs the Top 10 Trending Tweets in the Philippines
* Python code
* Twitter and Slack Bot API integration

**Requirements: (Install Guide)**

1. **Python 2.7x** (with Setup Environment Variable fix)

Download the latest version of Python from the official website:

https://www.python.org/download/releases/2.7/

For Windows:

Windows x86 MSI Installer (2.7.0) [(sig)](https://www.python.org/ftp/python/2.7/python-2.7.msi.asc)

Windows X86-64 MSI Installer (2.7.0) [[1]](https://www.python.org/download/releases/2.7/#id2) [(sig)](https://www.python.org/ftp/python/2.7/python-2.7.amd64.msi.asc)

After downloading the MSI package, run the installer through double clicking and follow the steps laid out by the installation wizard. The package format can be installed easily through the standard GUI.

By default, Python version 2.7 will install at C:\Python27\, however, path fix is needed.

To do the fix:

In the Control Panel, go to Edit Environment Variables for your account. Include:

PATH=%PYTHONPATH%;

PYTHONPATH=C:\Python27;

1. **Tweepy: Twitter API**

Read the Tweepy Documentation: <http://www.tweepy.org/>

Git clone or download the Tweety API at: <https://github.com/tweepy/tweepy>

1. **Slack Webhook: Twitter Slackbot**
2. **Optional for Python Coding:**

* Sublime Text Editor: <https://www.sublimetext.com/3>
* Notepad++

**API Reference**

* Tweepy API: <http://docs.tweepy.org/en/v3.5.0/getting_started.html>
* JSON API: <http://jsonapi.org/>
* Urllib2: <https://docs.python.org/2/library/urllib2.html>

**Libraries**

* import tweepy
* import json
* import urllib2

**Development**

**Connecting to Twitter and creating your API keys**

1. Sign in to your twitter account.
2. To access twitter and to get the recent tweets and/or trending tweets, it is a must to have 4 Twitter keys: Consumer Key, Consumer Secret, Access Token and Access Token Secret.

To generate these keys:

* 1. Go to the Twitter Developers site at: <https://dev.twitter.com>
  2. On the page footer, click Manage your Apps. Then create a new app.
  3. Enter the necessary details.
  4. Accept the TOS and solve the CAPTCHA
  5. Submit the form by clicking the Create your Twitter Application
  6. Copy the consumer key (API key) and consumer secret from the screen into the application.
  7. Then click Create my access token.
  8. Choose in the Request Settings, Request type: GET
  9. Get from the OAuth Tool tab the following: Consumer Key, Consumer Secret, Access Token and Access Token Secret.