**TKD Twitter Bot Development Guide.**

*Twitter Account:*

Norwich\_TKD

[Shortman6262@hotmail.com](mailto:Shortman6262@hotmail.com)

*Password:*

Located in LastPass

TXT File

TKDKnowledgeBase.txt file – updated with tweets from word document on **24th Feb 2016**

**Additional Info**

Auth.py file exists for handling twitter authentication, in C:\Users\Gavin\Documents\Py\Challenges\TKD\Twitter Bot\\_\_pycache\_\_

Duplicates also located in the same folder, will review and clear down, and find auth file

Version 1.0

Basic Twitter bot to send tweets randomly drawn from a list (tkdTweets) with a delay period between tweets, looping to send any number of defined tweets for (test is set to 5)

Version contains ‘list’ of tweets to draw from. – 100

Current Twitter credential (ConsumerKey, SecretKey, AccessKey, AccessSecret)

While Loop to send 5 random tweets

Random based inside the ‘while’ loop

Variable defined ‘sleep’ period

Version 1.1 – **Completed and Implemented**

*Action Delivered:*

Import the library from another file, reduce the script length and make the process of amending the library more structured.

*To Do:*

Insert a schedule function for tweets to be delivered during defined time periods in the day to deliver tweets when users are most engaged with the platform.

Version 1.2 – **Completed and Implemented**

Adding in a date & time stamp to be printed on the console so able to see that the bot is working.

***ISSUE:*** datetime (needed to print time) and time (needed to sleep) modules are causing a conflict with each other and Python is unable to access time module as a result.

*TRIED:* Attempted to call the time sleep function using its full name time.time.sleep() however still NOT Successful.

Attempted to import specific function of Datetime and time NOT successful.

SOLUTION:

Import both modules in following way:

from time import time, sleep

from datetime import datetime

outlined at: <http://stackoverflow.com/questions/11211650/cannot-seem-to-use-import-time-and-import-datetime-in-same-script-in-python>

Version 1.3 – **Completed and Implemented**

Copy of 1.0 with the Keys imported from script tweetKeys.py instead of being entered into the script itself.

*WHY:* separation should better protect those credentials from other people, especially when sharing scripts.

NEEDS Testing with internet connection to confirm that execution is correct – did remove error of not recognising module call and receiving a tweepy error now that indicates lack of internet connection to be the problem – Will test properly in hotel.

SOLVED:

Just need to detail the keys in the script exactly as I would in the Twitter Bot itself and import

Eg. from filename import \* (from tweetKeys import \*)

Version 1.4 – Exception handling **Completed and Implemented**

Implemented exception handling for duplicate tweet

Exception is in place and functional – need to figure out how to get this to loop round again. – 10/03/2016

Implemented a loop by just calling tkdTwitterBot function in the exception statement.

Version 1.5 - *Suggestion*

Implement a schedule function into the script to run the script at set times on days.

DEVELOPMENT:

Code in exception handling for duplicate tweets.

Expand Library further.

Add in map locations

Add in function to tweet media (picture library)

**Version 2.0**

Integration of versions outlined above as tasks are completed.

Integrated version 1.3 – **28th Feb 16**

Integrated version 1.1 – **28th Feb 16**

Integrated version 1.2 – **28th Feb 16**

Integrated version 1.4 – **15th Mar 16**

**Twitter Follower Add 1.0.py**

Works in searching tweets for content across a set period of time and adds users.

**Twitter Follower Add 1.1.py**

Defined a function called ***findFollowers***which needs to be called in the final script

Loops through search terms. – **Completed**

Exception handling for # of followers limit – **Completed**

RENAMED – TKDFollowerBot.py – Integrated into **tkdBot 2.0.py**

**TKDFollowerBot 1.2.py**

Restrict the geographical location of tweets searched – and added to following.

Define search criteria better to limit adding bots.

Development:

Need to set the date range to a variable – Version 1.1 – **01st Mar 16**

Refine what the best search criteria will be & create a library of search terms *(#Norwich, taekwondo, martial arts, martial art, #exercise, Norwich lanes, healthy, UEA, university, family, sport, fight*)

Create a list of who has been added as a result of running the script. – Append in to a text file

Create as a module to run within 2.0 script. - completed

Add re-tweet function – Will separate out into own script using the same search basics

Refine search based on geography

Schedule to run once a week – build script of time or read doc on datetime module.

Module to import a picture once a week with a caption about the picture.

**Final Form**

Integrated:

**TKDTweetBot**

Integrated version 1.3 – **28th Feb 16**

Integrated version 1.1 – **28th Feb 16**

Integrated version 1.2 – **28th Feb 16**

Integrated version 1.4 – **15th Mar 16**

*TKDFollowerBot.py –* ***28th Mar 16***

Integrated tkdTrainingDayBot.py – **28th Mar 16**

*Integrated Schedule Function –* ***28th Mar 16***