INFO 153 HW7

This assignment is to search for data through twitter API, store the data into MongoDB and run statistics using NoSQL query .

## Twitter APP Access

Please follow the instructions here to create an app to access Twitter API:

<https://developer.twitter.com/en/docs/basics/getting-started#get-started-app>

## Twitter Search API Reference

Please study Twitter’s standard search API at:

<https://developer.twitter.com/en/docs/tweets/search/api-reference/get-search-tweets.html>

## Python with Twitter Search

Write Python code to connect to Twitter search API at:

[*https://api.twitter.com/1.1/search/tweets.json*](https://api.twitter.com/1.1/search/tweets.json)

with at least the following parameters:

* ***q*** for a search topic of your interest;
* ***count*** to 100 for 100 records

to retrieve twitter data and assign the data to a variable.

## Python with NoSQL / MongoDB

Write Python code to save the data to a MongoDB collection:

* Import json module to parse JSON data
* Import MongoClient from pymongo to use MongoDB
* Create a loop to iterate through the variable with data from Twitter, and for each tweet:
  + Parse these related values: **id**, text, created\_at, user’s screen\_name, retweet\_count, favorite\_count, lang.
  + Use MongoDB’s insert method to add the parsed tweet values to MongoDB collection;

Write Python code to query the database:

* Use find method to search for tweets with lang=”en”;
* Use the aggregate method with $sum to compute the total retweets;
* Use the aggregate method with $count and $group to count the number of tweets by each user (screen\_name);