Exercise 4: Twitter API Practice

Due: Wednesday, May 5th

Task: I would like you to query Twitter's API using a parameter from a get request with express. Then I would like you to analyze the users who match the search criteria. Please write all code in the implementation folder!

Part 1

In a file called TweetBot.js (starter code and guide here) I would like you to do the following:

- Using express, create a server that will read from the following URL: localhost:5000/api/tweets/XXX
- The XXX must be a parameter that will then be used as the search query for twitter.
- Using the 'search/tweets' get command discussed in lecture, find **50 tweets** based on the parameter from above and use those tweets to compile all text related to that query

Example:

localhost:5000/api/tweets/fifa

- Searches and finds **50 tweets** related to the keyword fifa

localhost:5000/api/tweets/goats

- Searches twitter to find **50 tweets** related to the greatest animal in the world

Part 2

In the sphere of marketing and data analytics in business, viewing interactions between a topic and the users that interact with them are invaluable. In this section, you will take a look at the users who match the search criteria.

How will we make requests?

In a file named TweetAnalysis.js we will use postman to make a GET request at **localhost:2500/analysis** with a raw JSON in the following format:

```
{
    "search": "Testudo"
}
```
Use this to then query twitter using the same 'search/tweets' get command as part 1.

What will you do with the tweets that match the query?

For marketing reasons, I would like you to sift through the user attribute on the **100 tweets** that match the query, then display the following data on the page:
1. Average age on the accounts displayed as ___Years, ___Months
2. Average follower count
3. Number of English language users
4. Number of Eastern Time (US & Canada) zone users

No need to make any CSS or formatting for this exercise, please just display the data by whatever means.