Innovaccer Intern Challenge

API Documentation-

Key Features:

-Twitter Streaming API

-Nosql DB-ElasticSearch

-support text search in tweet text/user name

-sorting available by date time, tweet text etc(ElasticSearch does it)

-Filters like user/screen name, retweet count, favorite count,
date range, language, user follower counts, user mentions, URLs etc. (The more
the merrier) in such a way that:

-Less than, greater than, equal to filter in case of integer column (eg:
retweet count)

Following are the trending keywords used for streaming from twitter api and
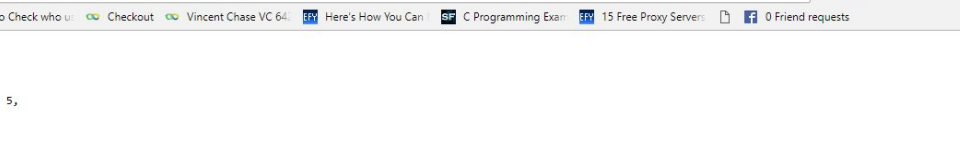Indexing in ElasticSearch.

[holi,hack,modi,sridevi]

app1.py contains code for streaming from twitter api

innov-api.py contains the api logic

GET all the twitterstreams json with all the metadata
url-http://localhost:5000/api/all/tweets/

```
[
  {
    "_shards": {
      "failed": 0,
      "skipped": 0,
      "successful": 5,
      "total": 5
    },
    "hits": {
      "hits": [
        {
          "_id": "lQAA4WEBNSG4hzYhk3pv",
          "_index": "twitter",
          "_score": 1.0,
          "_source": {
            "hashtags": [
              {
                "indices": [
                  61,
                  66
                ],
                "text": "holi"
              },
              {
                "indices": [
                  67,
                  76
                ],
                "text": "festival"
              },
              {
                "indices": [
                  77,
                  84
                ],
                "text": "colors"
              },
              {
                "indices": [
                  85,
                  95
                ],
```

GET the username and its metadata
url-http://localhost:5000/api/tweets/user/<username to search>/
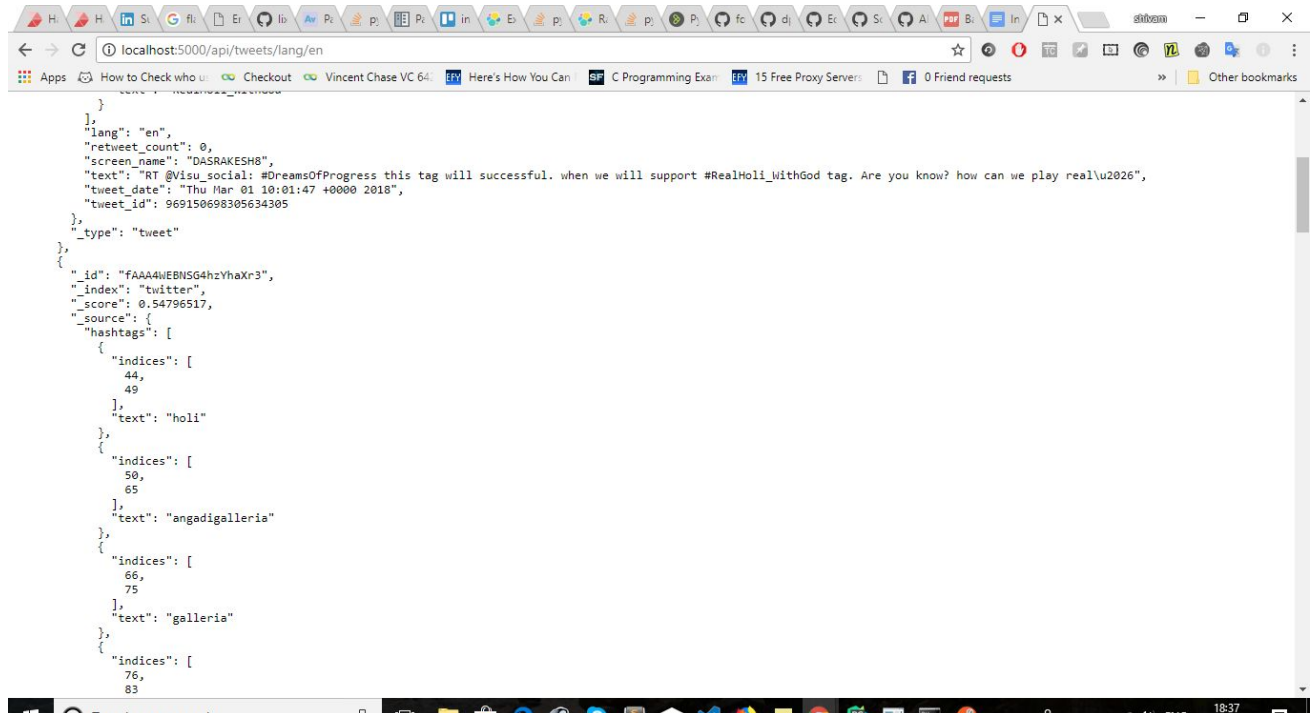
```
{
  "_shards": {
    "failed": 0,
    "skipped": 0,
    "successful": 5,
    "total": 5
  },
  "hits": {
    "hits": [
      {
        "_id": "lQAA4WEBNSG4hzYhk3pv",
        "_index": "twitter",
        "_score": 3.1780539,
        "_source": {
          "hashtags": [
            {
              "indices": [
                61,
                66
              ],
              "text": "holi"
            },
            {
              "indices": [
                67,
                76
              ],
              "text": "festival"
            },
            {
              "indices": [
                77,
                84
              ],
              "text": "colors"
            },
            {
              "indices": [
                85,
                95
```

GET tweets according to language search

For language codes,please refer twitter-api documenation en-english esp-spanish
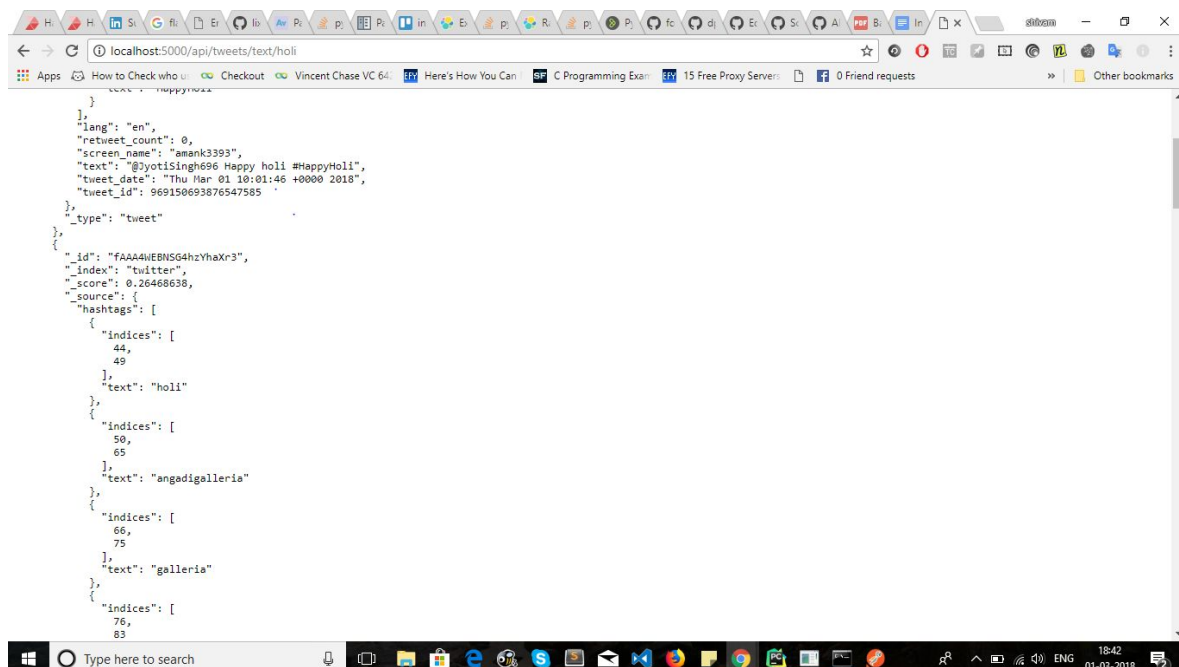
url-http://localhost:5000/api/tweets/lang/<language code>

GET tweet text and its metadata by searching terms in tweet

Elasticsearch does it for us

url-http://localhost:5000/api/tweets/text/<Enter text>/

GET tweets and metadata according to retweet_count

url-http://localhost:5000/api/tweets/rcount/<greater than count>/<less than count>

Elastic Search query Used

```
{
    "query": {
        "range": {
            "retweet_count": {
                "gte": gt,
                "lte": lt,
            }
        }
    }
})
```
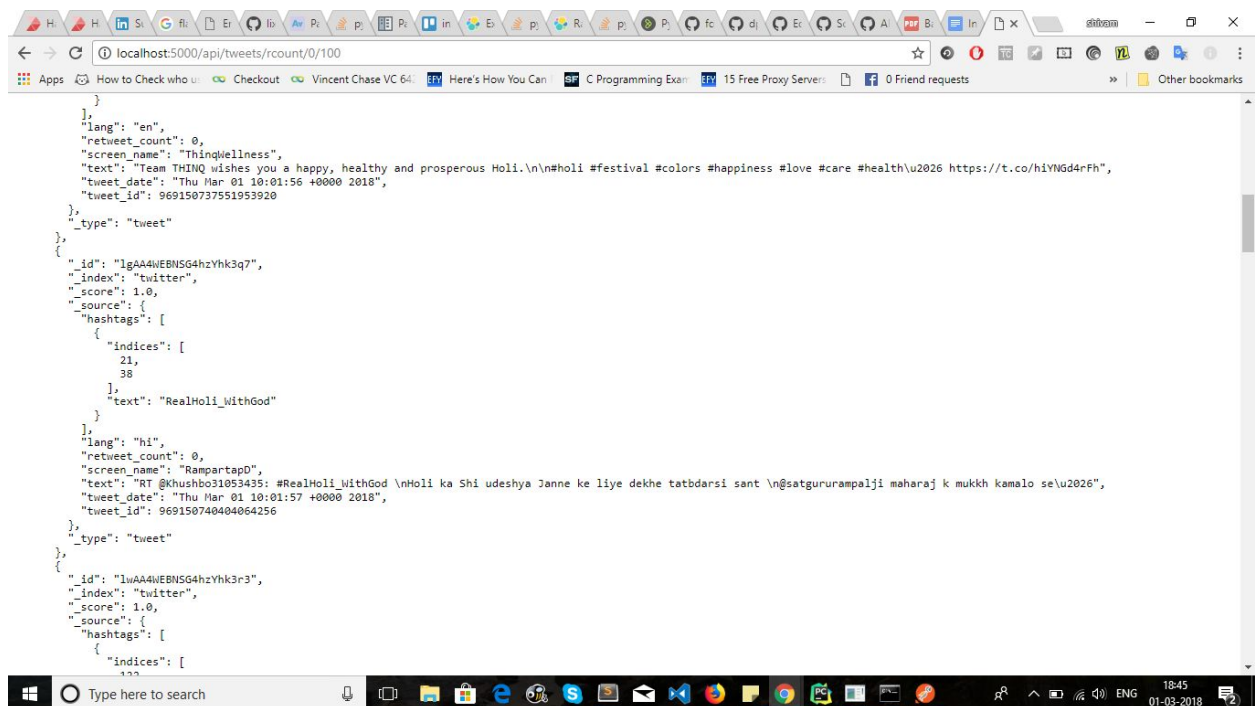

GET tweets and metadata according to retweet_count

url-http://localhost:5000/api/tweets/fcount/<greater than count>/<less than count>

Elastic Search query Used

```
{
    "query": {
        "range": {
            "followers_count": {
                "gte": gt,
                "lte": lt,
            }
        }
    }
}
```