

# 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]

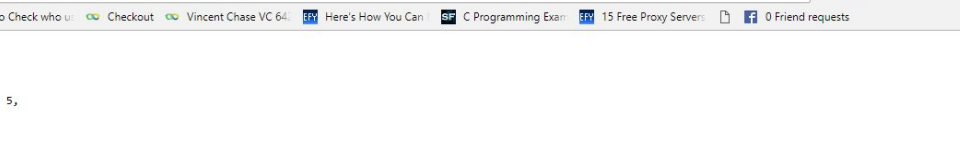
app1.py contains code for streaming from twitter api

innov-api.py contains the api logic

url-<http://localhost:5000/api/all/tweets/>

## GET the username and its metadata

url=<http://localhost:5000/api/tweets/user/<username to search>>



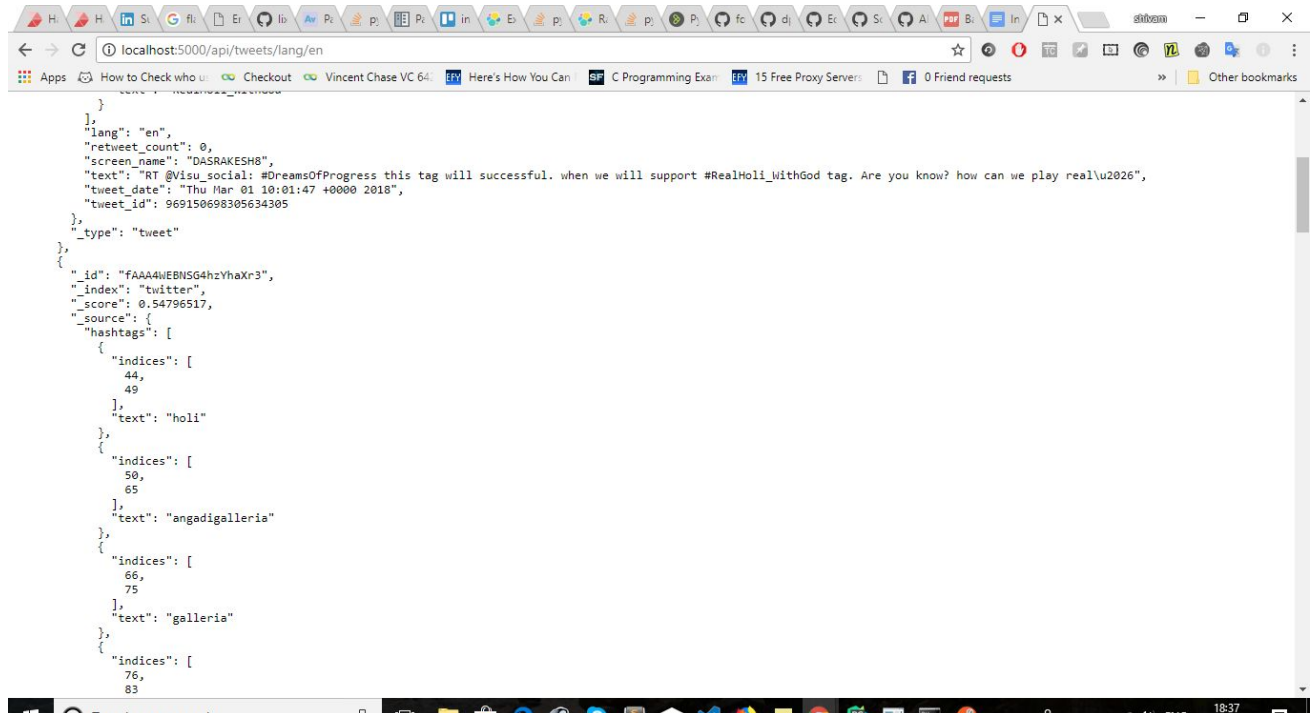
The screenshot shows a web browser with a REST client interface. The URL bar displays `localhost:5000/api/tweets/user/ThinQWellness`. The response is a JSON object:

```
{
  "shards": {
    "failed": 0,
    "skipped": 0,
    "successful": 5,
    "total": 5
  },
  "hits": {
    "hits": [
      {
        "_id": "lQAA4NEBNSG4hzYhk3pv",
        "_index": "twitter",
        "_score": 3.1780539,
        "_source": {
          "hashtags": [
            {
              "indices": [
                61,
                66
              ],
              "text": "holi"
            },
            {
              "indices": [
                67,
                76
              ],
              "text": "festival"
            }
          ],
          "indices": [
            77,
            84
          ],
          "text": "colors"
        }
      },
      {
        "indices": [
          85,
          85
        ]
      }
    ]
  }
}
```

GET tweets according to language search

For language codes, please refer twitter-api documentation en-english esp-spanish

url-<http://localhost:5000/api/tweets/lang/><language code>

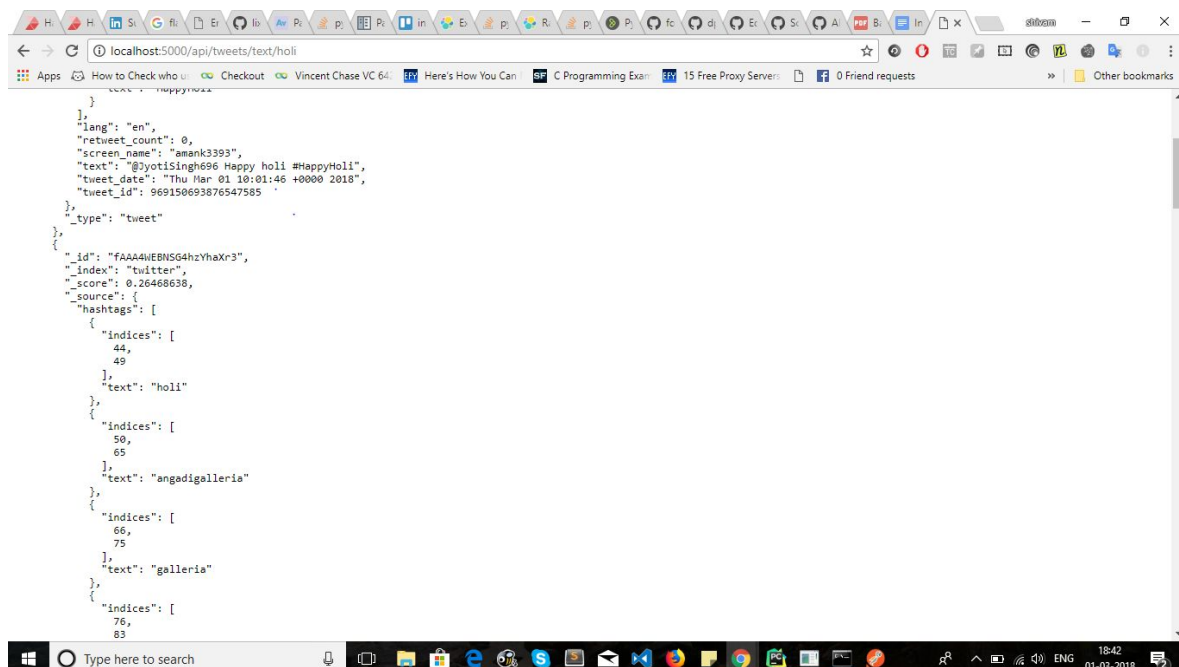


```
{
  "lang": "en",
  "retweet_count": 0,
  "screen_name": "DASRAKESH8",
  "text": "RT @Visu_social: #DreamsOfProgress this tag will successful. when we will support #RealHoli_WithGod tag. Are you know? how can we play real\u0026#x2D;u2026",
  "tweet_date": "Thu Mar 01 10:01:47 +0000 2018",
  "tweet_id": 969150698305634305
},
{
  "_type": "tweet"
}
],
{
  "_id": "fAAA4WEbNSG4hzYhXr3",
  "_index": "twitter",
  "_score": 0.54796517,
  "_source": {
    "hashtags": [
      {
        "indices": [
          44,
          49
        ],
        "text": "holi"
      },
      {
        "indices": [
          50,
          65
        ],
        "text": "angadigalleria"
      },
      {
        "indices": [
          66,
          75
        ],
        "text": "galleria"
      }
    ]
  }
},
{
  "indices": [
    76,
    83
  ]
}
```

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>/



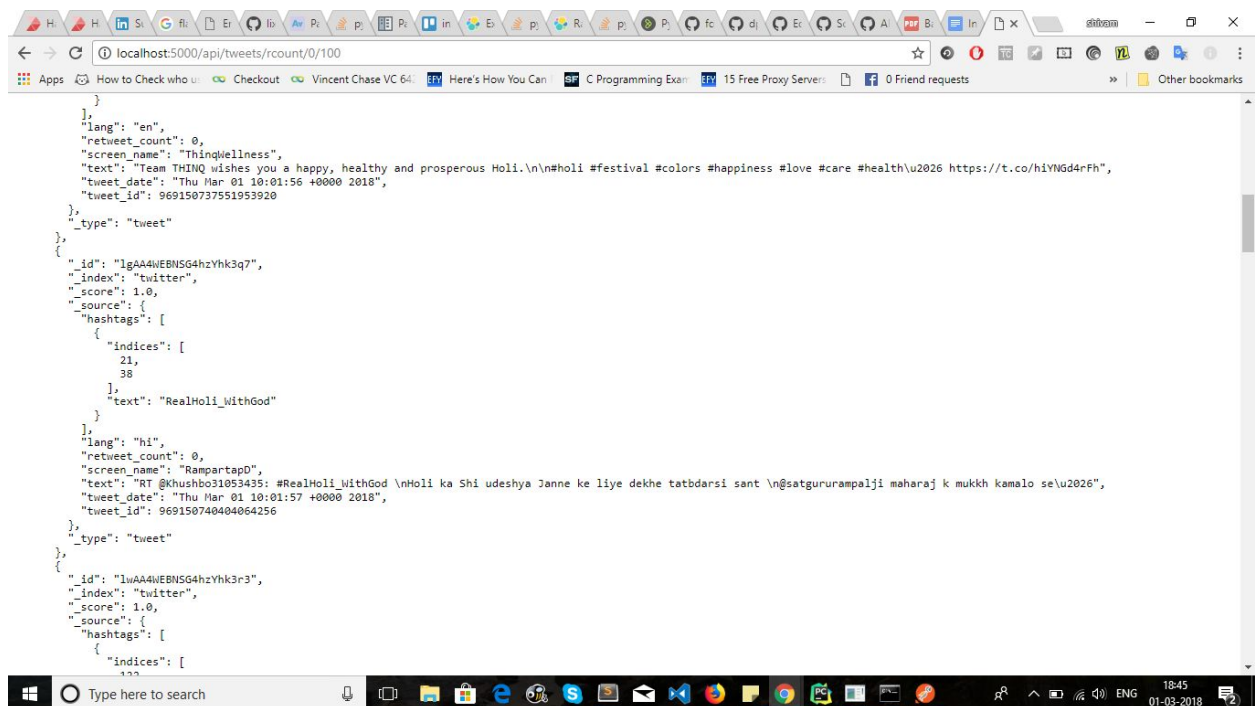
```
{
  "lang": "en",
  "retweet_count": 0,
  "screen_name": "amank3393",
  "text": "@pyotisinh696 Happy holi #HappyHoli",
  "tweet_date": "Thu Mar 01 10:01:46 +0000 2018",
  "tweet_id": 969150693876547585
},
{
  "_type": "tweet"
}
],
{
  "_id": "fAAA4WEbNSG4hzYhXr3",
  "_index": "twitter",
  "_score": 0.26468638,
  "_source": {
    "hashtags": [
      {
        "indices": [
          44,
          49
        ],
        "text": "holi"
      },
      {
        "indices": [
          50,
          65
        ],
        "text": "angadigalleria"
      },
      {
        "indices": [
          66,
          75
        ],
        "text": "galleria"
      }
    ]
  }
},
{
  "indices": [
    76,
    83
  ]
}
```

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,
      }
    }
  }
}
```