IR project A

Group components:

- Bernasconi Christian - 816423
- Ripamonti Marco - 806785

Project

An online demo of the project has been developed using Angular and it's available at
https://marcoripa96.github.io/ . The demo uses an Elasticsearch cluster deployed on
Heroku. We recommend to try the demo with Google Chrome browser to ensure a correct
behavior.

If you want to try it locally follow the steps reported below. Before proceding, be
sure to have Python, Elasticsearch (version 7.10) and Angular CLI
(https://angular.io/guide/setup-local) installed on you PC.

Setup environment

To setup the python environment run the following commands:

```
python -m venv venv
.\venv\scripts\activate (WINDOWS)
.\venv\bin\activate (LINUX)
pip install -r requirements.txt
```

Index creation and search

To test the implemented functionalities run the following command:

```
python -m project
```

Be sure to have Elasticsearch running on http://localhost:9200 . **N.B.:** if you want to
create a new index you need to specify it in `./create_index_conf.py` . An example is
provided in `./create_index_conf_sample.py`

Demo setup (only necessary if you want to try the demo locally)

First of all you have to copy `./elasticsearch.yml` to `../elasticsearch-
version/config/` to enable cross-origin requests. Then, you have to execute the
following commands:

```
cd ./demo
npm install
npm run start
```

The demo should be available at http://localhost:4200 (be sure to have Elasticsearch
running on http://localhost:9200)

Get tweets

Tweets are already provided in `./data` . You can download new tweets executing the
command:

```
python -m getTweets
```

N.B.: to use twitter API you need to put your KEYS in `./secrets.py` . An example is provided in `./secrets_sample.py`