## **API Keys Documentation**

All API Keys referenced are included in **keys.py**

1. ParallelDot API Key for sentiment analysis: **pd\_api\_key**

The key is provided in the file. However, you are recommended to obtain your own key: If the app takes more than 1-2 minutes to load, it is highly possible that the monthly quota for the ParallelDot API is used.

To get the key, go to <https://www.paralleldots.com/docs>, click “Sign Up” at the top right corner, and verify your account by clicking a link sent through email. After logging in, click “[API Key](https://user.apis.paralleldots.com/api_key)” in the user dashboard to obtain the key.

1. Twitter API Keys: **ACCESS\_TOKEN, ACCESS\_SECRET, CONSUMER\_KEY, CONSUMER\_SECRET**

The keys are provided in the file.

To get your keys:

1. Apply and receive approval for a Twitter developer account at <https://developer.twitter.com/en/docs/basics/developer-portal/overview>
2. Create a Twitter developer app at <https://developer.twitter.com/en/docs/basics/apps/overview>
3. Go to your App Details and generate your app’s API keys and users’s access tokens

## **Reflection**

There are two major roadblocks we encountered while implementing the project:

1. The IBM Waston Tone Analyzer API only supports Python 3, which is not compatible with our app.
2. The Twitter API only allows us to fetch tweets from the most recent 7 days, which does not provide enough data to create an emotion trend of tweets throughout the year.

Both roadblocks were related to API usage, and they indicated that we need to do more research on APIs before officially start on design & implementation. A few approaches to tackle this issue is either to reach through all the available official documentation of the API or to test the API condition on Postman / RapidAPI before the implementation.