

IBM HACKATHON 2018

1. Problem Statement:

Help me with my Mood- With Social-media Health Analysis and Display Engine (SHADE).

2. About Team:

In our team, there are 4 members. Their roles are as follows:

- **Mukul Varshney:** UI Designer, handles HTML, CSS, JavaScript.
- **Manish Kumar:** Handles Backend, Integration of codes, IBM Watson API.
- **Syed Shamikh Iqbal:** YouTube API.
- **Sumit Agrawal:** Twitter API.

3. Problem Description:

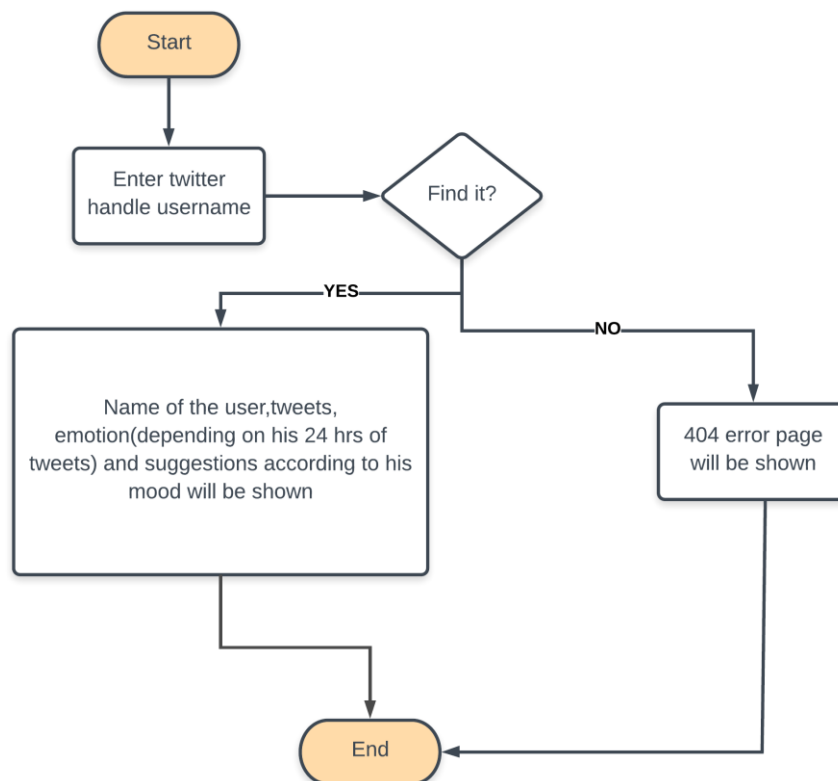
A person's emotions and moods have direct bearings on his/her daily activities. It is necessary to eliminate negative emotions that our family or friends might be experiencing, to help them lead a better life. Research has shown that social networking activity is a good source to gauge a person's state of mind. Mood of a user is often reflected in his/her social content, like tweets, blogs, article, status updates, etc. Timely analysis of a user's social media can be used to improve the feelings, and even save a person's life in an extreme case! Hence it becomes important to regularly analyse the social media health of our friends and family to take timely action.

4. Scope of work:

This application gathers the username as an input for a particular twitter handle, and then it analysis all tweets made by the user in last 24 hour. Based on which it finds the current mood/emotion of the user and used it to suggest some YouTube content that will calm down his mood or help to eliminate the negative state of mind that could affect his daily life.

Working:

Our application works in 3 steps



First, we will take input as **Twitter handle username** from the user.

Second, username is passes through the **Twitter API** to collect his information i.e. his name, tweets, etc.

Third, tweets from the above step are again passes through **IBM Watson API**, more specifically, IBM Watson Tone Analyser. As a result we get an emotion. On the basis of emotion application show him some **YouTube** content to eliminate negative emotions.

5. Key Value Proposition:

Tweets: In this application, user is also able to view tweets which was posted in last 24 hours and also view duration of every tweet.

Error Handling: We are handling most of the major errors such as for valid twitter account, invalid tweets, etc.

YouTube: In this application, user is able to enjoy some amazing YouTube videos according to his mood.

6. Technologies/Platform/APIs used:

Technologies Used: Python, HTML, CSS, JavaScript.

Tools Used: Django-Python, Sublime, Pycharm.

Platform: Windows OS

APIs: Twitter, IBM Watson Tone Analyser, YouTube