

1. Please mention group members names and UFID.

Name: Smrati Pandey

UFID: ****_****

Name: Sachit Verma

UFID: ****_****

2. Steps to run the project.

Download the file

Run the command:

- Install dependencies with `mix deps.get`
- Install Node.js dependencies with `cd assets && npm install`
- Run `mix ecto.create`
- Run `mix phx.server`

For Simulation of 100 users uncomment `import socket from "./twitter"` and comment `import socket from "./socket"` in `app.js` and vice-versa for running the simulation for single user.

3. What is working?

All the functionalities mentioned in the problem description have been implemented successfully for simulation of 100 Users. The functionalities implemented are as follows: -

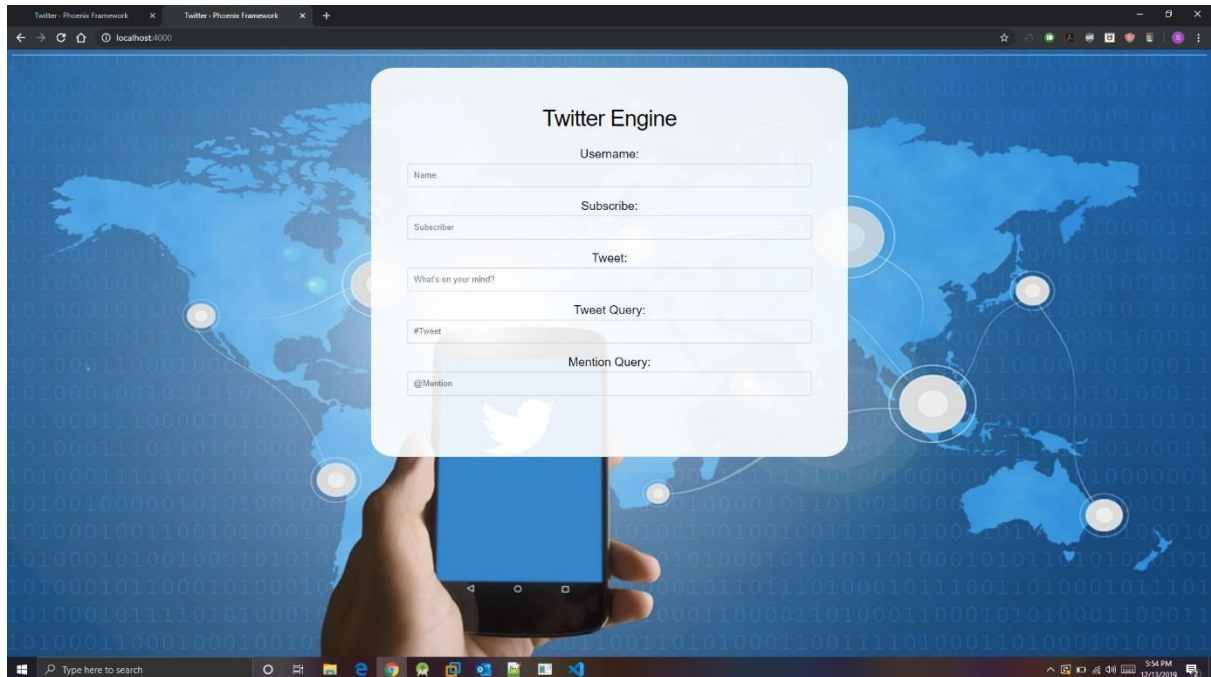
- a. Create account.
- b. Login and logout user.
- c. Sending tweets containing hashtags and mentions.
- d. All the subscribed followers can receive tweets.
- e. All the subscribed followers can retweet received messages to their followers.
- f. Subscribe to user's tweets.
- g. The followers are receiving live messages without querying.

4. List of All the functionalities that we have implemented

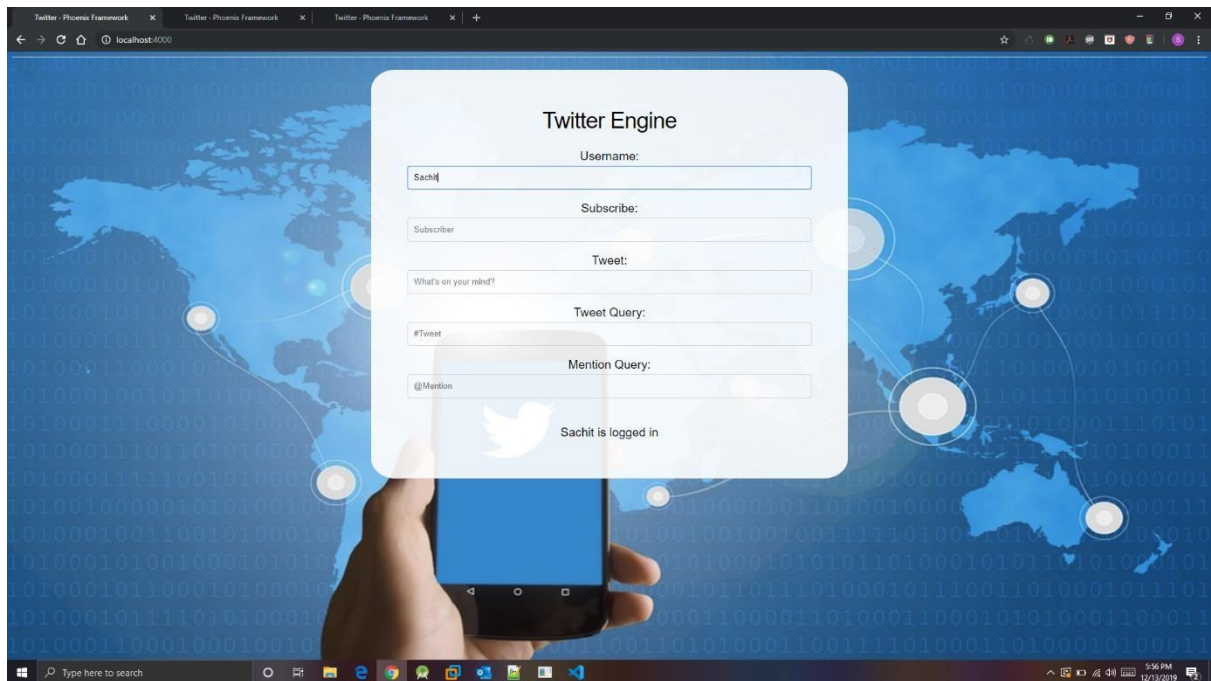
- We go to the web browser and register the new user.
- After making multiple users in the system. We make followers for the users. Once the followers have been made for the users, the user can start tweeting.
- The message will be sent out to the wall of all their followers.
- The users can send a combination of four types of messages.
 1. A simple tweet that contains message as text only.
 2. Tweet containing hashtag and message.
 3. Tweet containing user's mention and message.
 4. Tweet containing hashtag, user's mention and message.
- These messages can be queried based on hashtag and the mentions of the Users.
- The subscriber can retweet the messages received to them further to its followers.

Below are the Screen shots depicting the flow

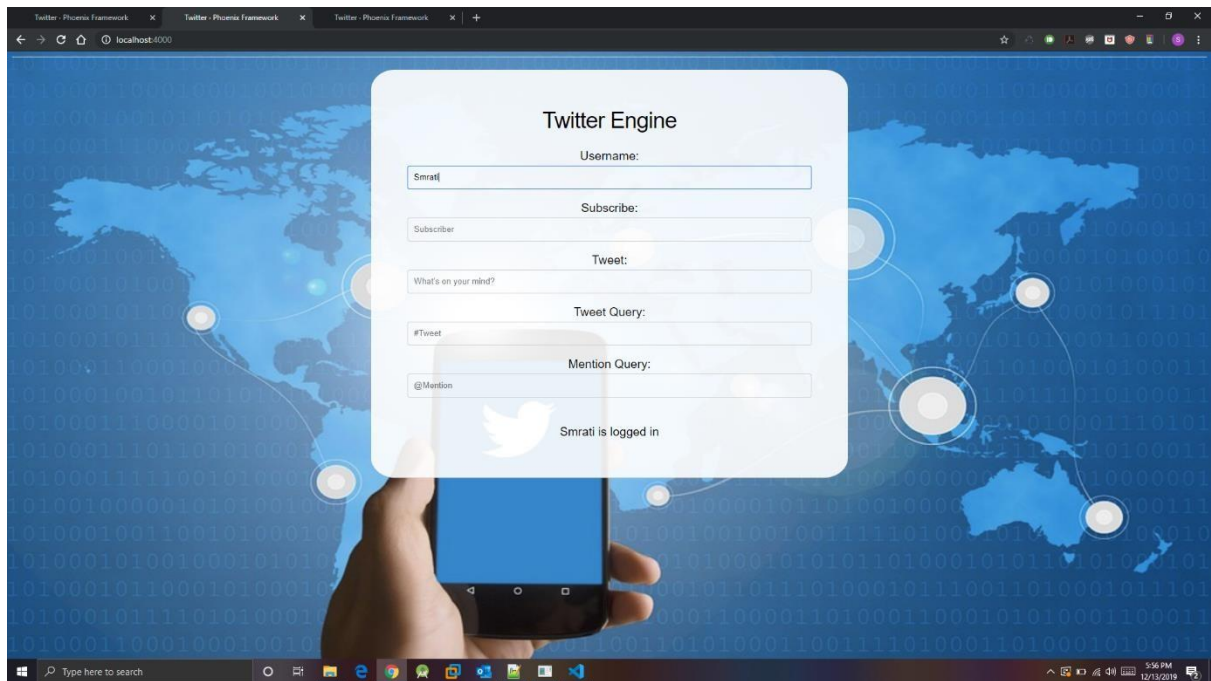
1) Login to twitter Engine



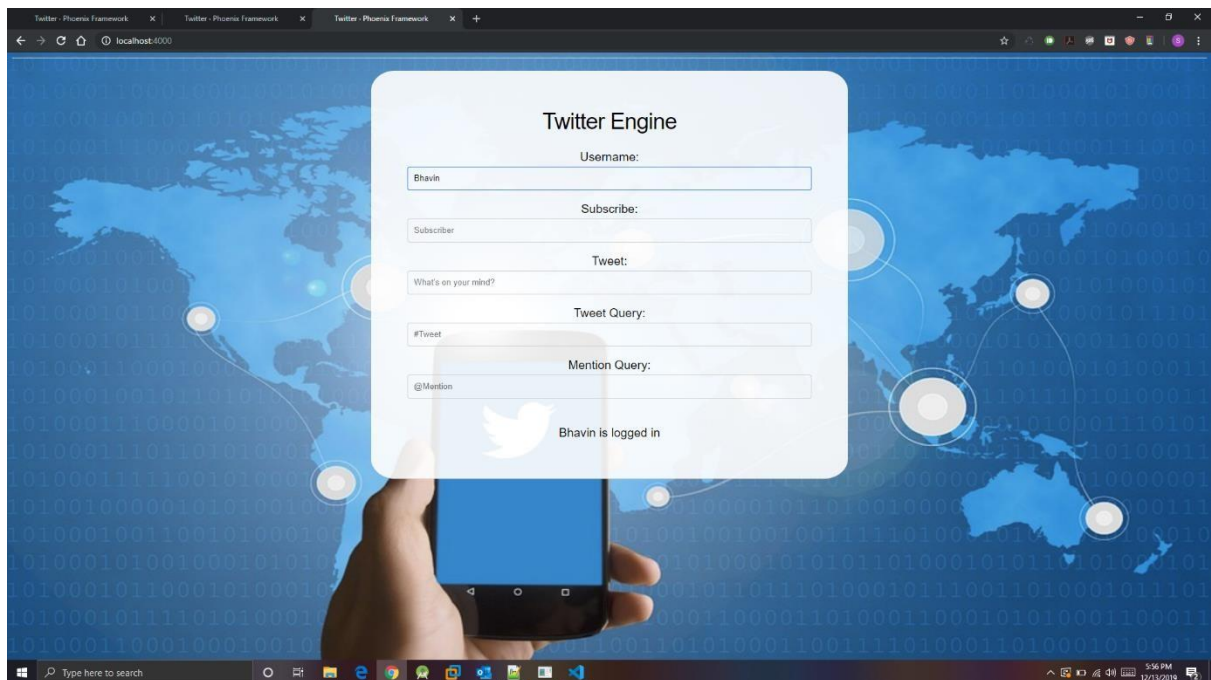
2) Create Username: Sachit



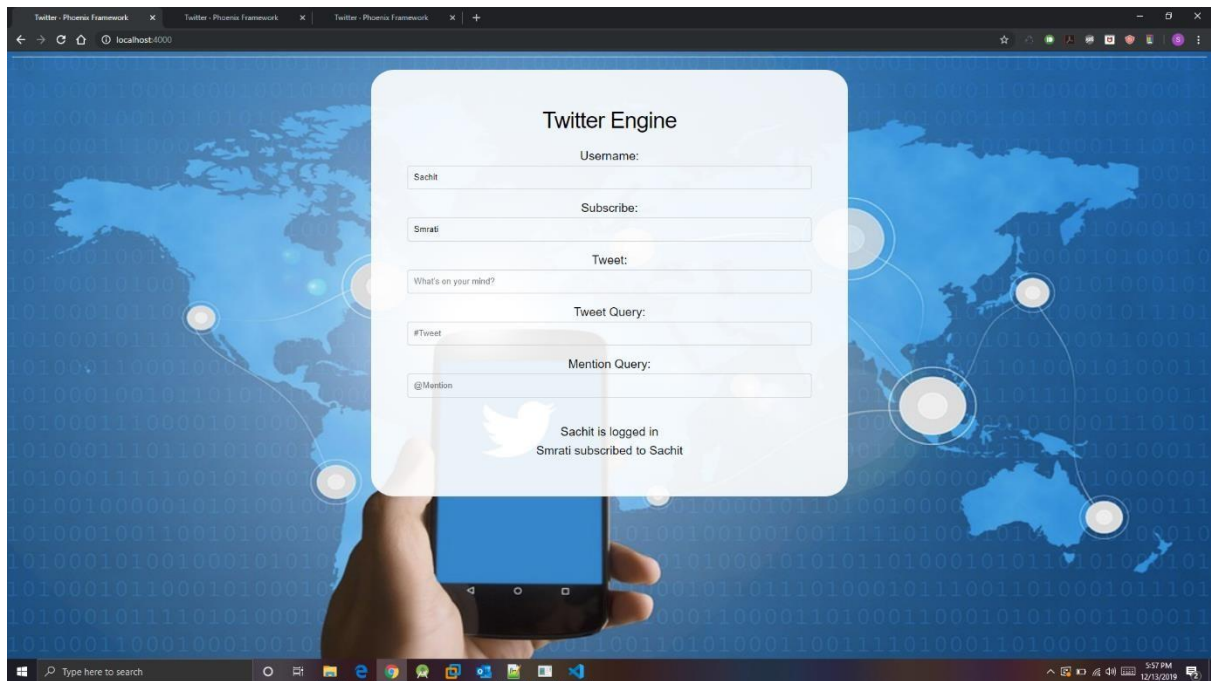
3) Create Username: Smrati



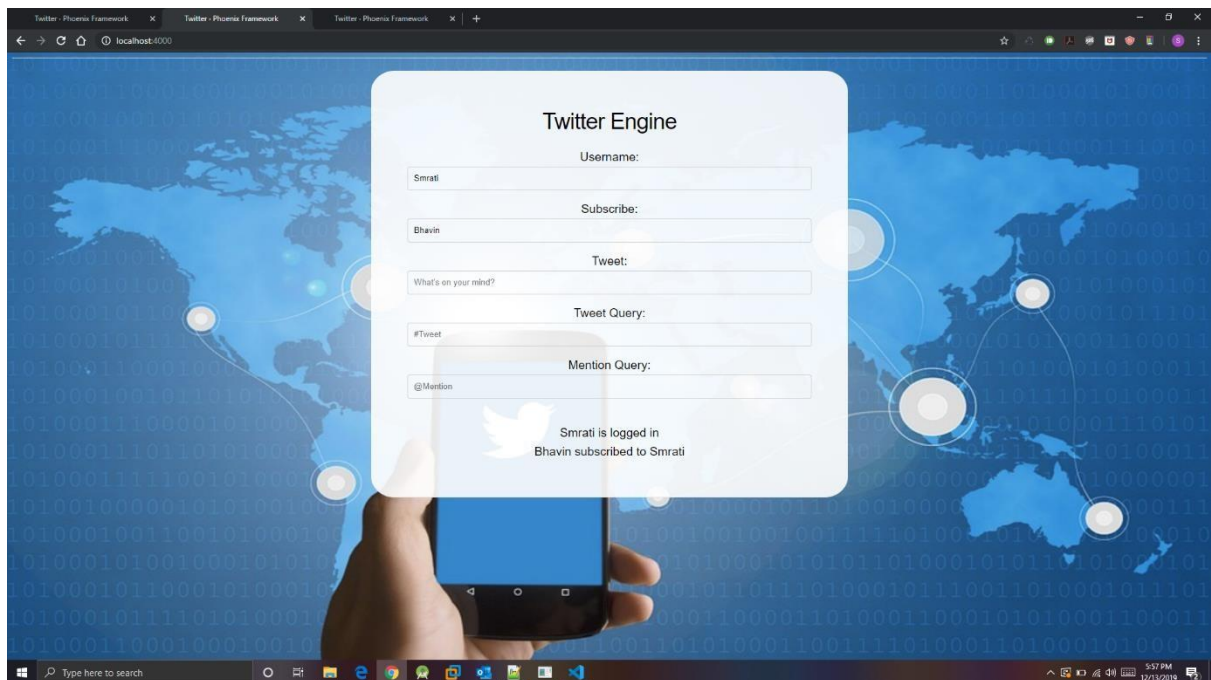
4) Create Username: Bhavin



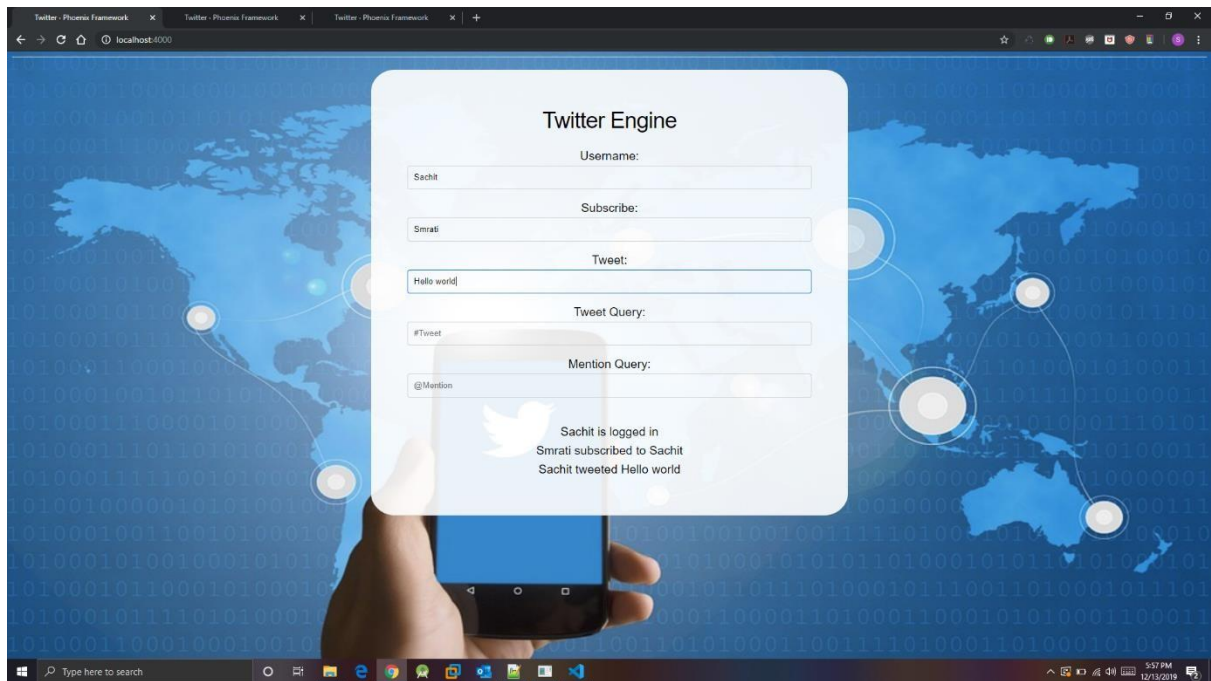
5) Smrati subscribed to Sachit



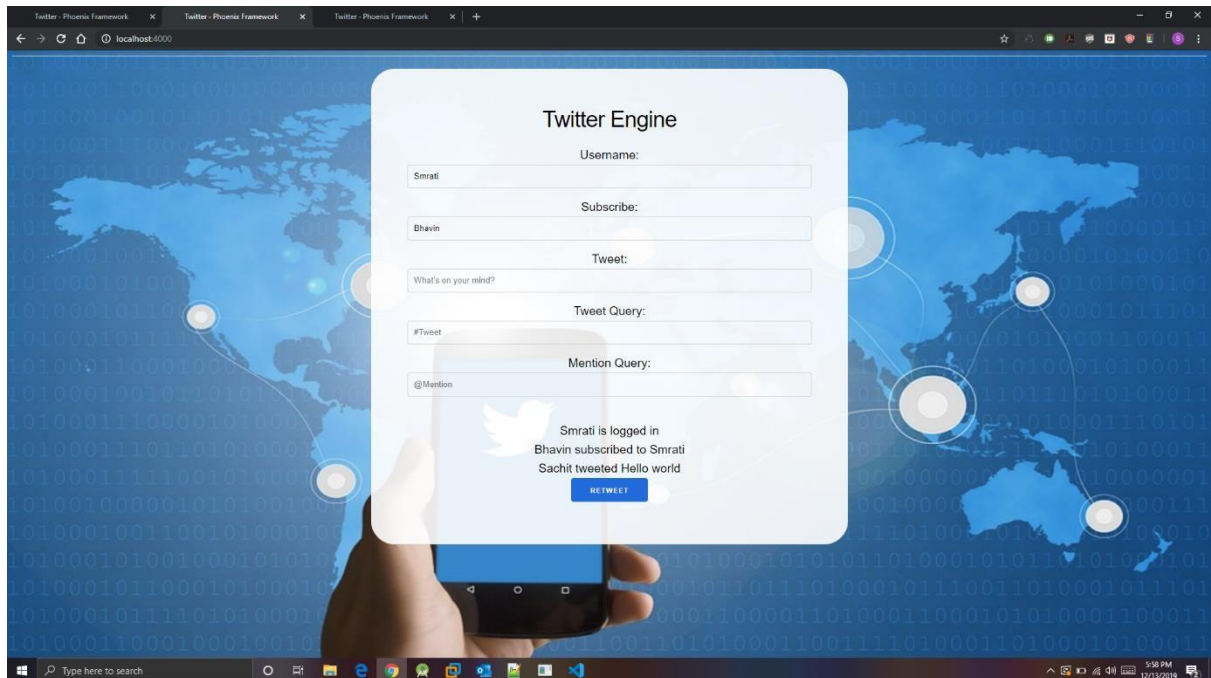
6) Bhavin Subscribed to Smrati



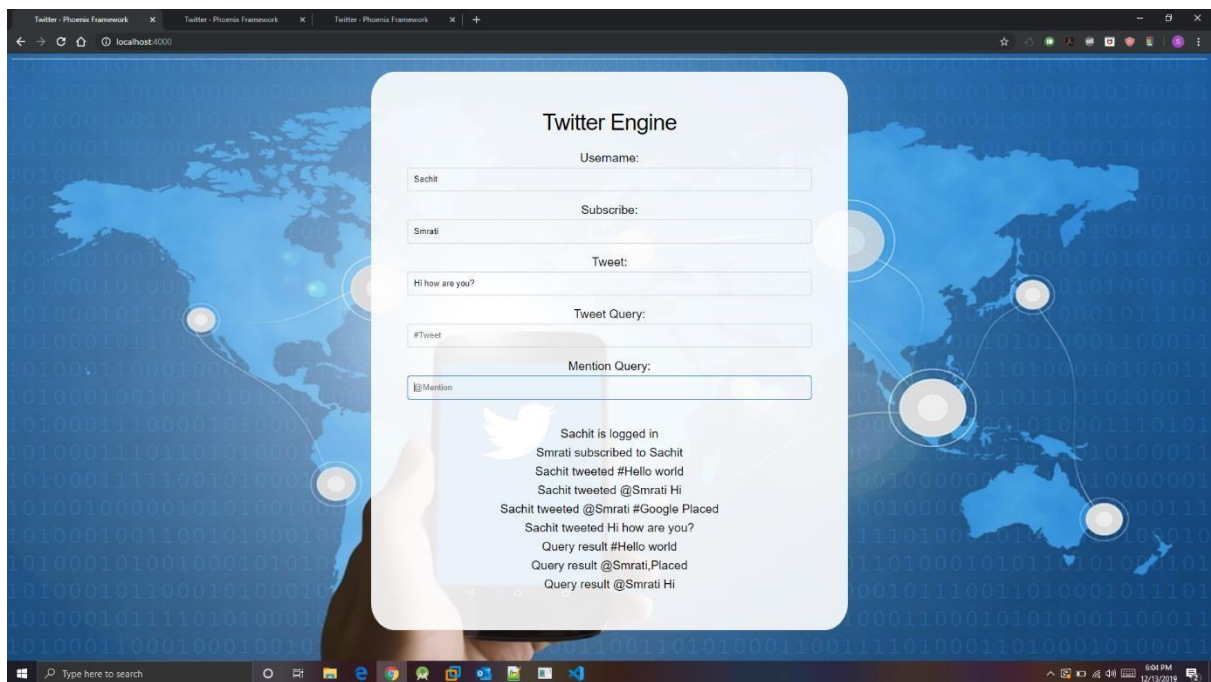
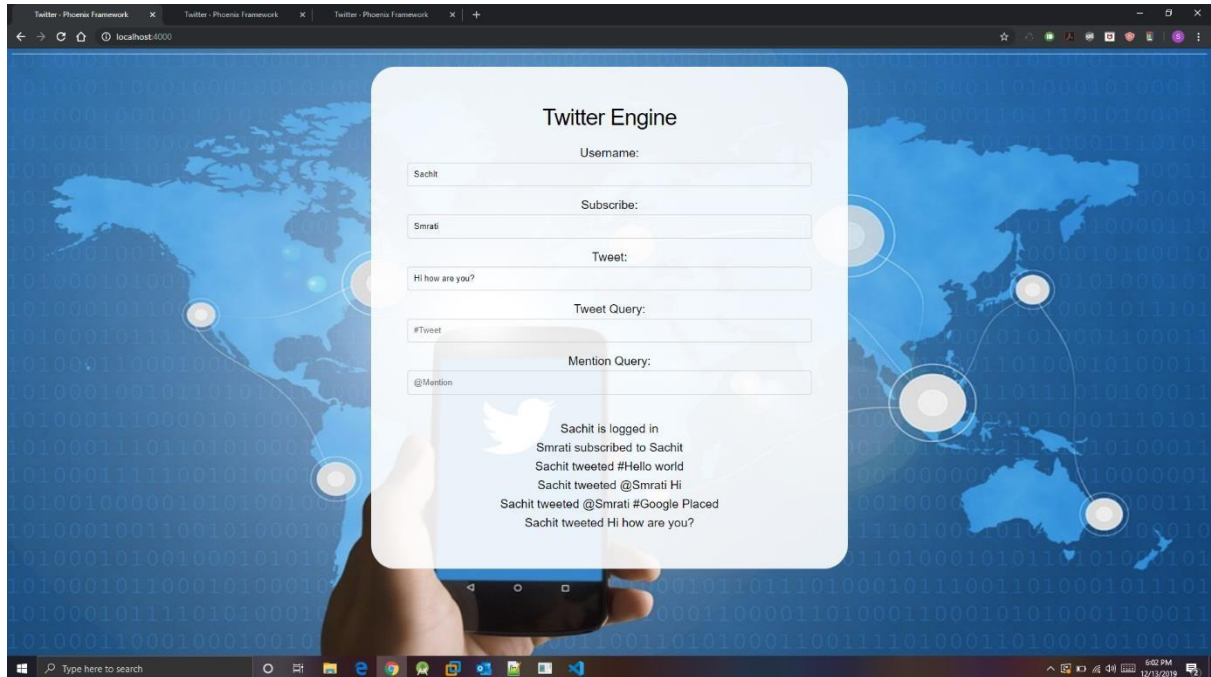
7) Sachit Tweeted hello world



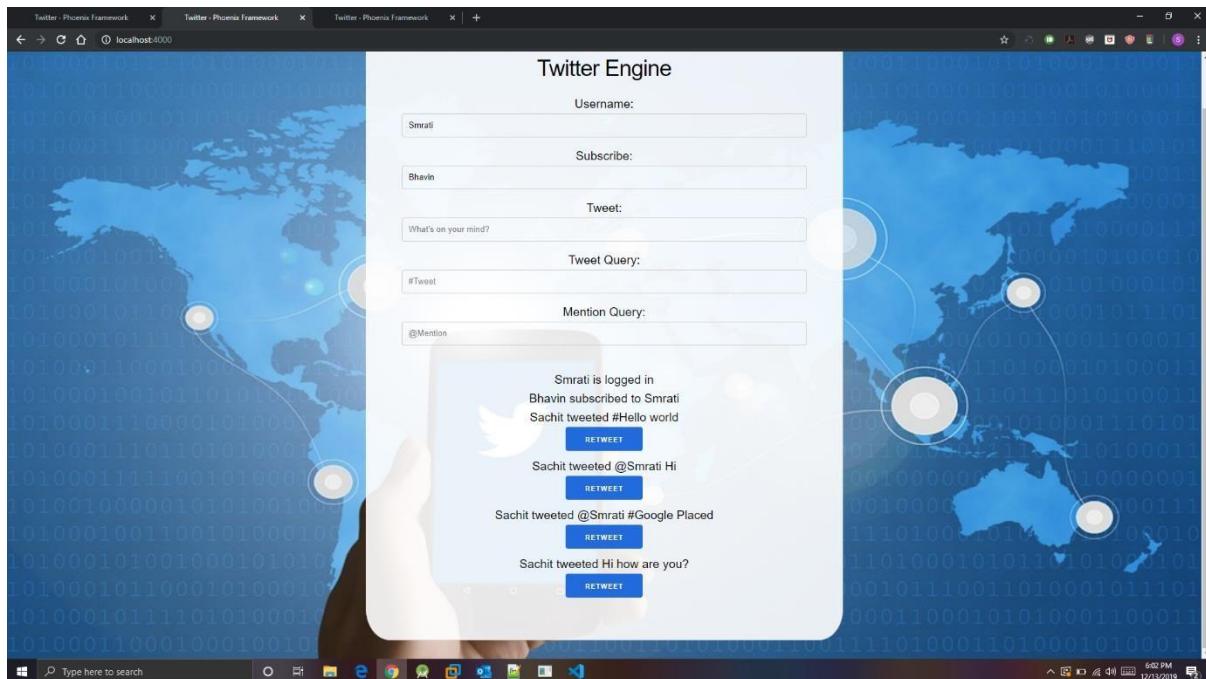
8) Message displayed on the wall of the subscriber



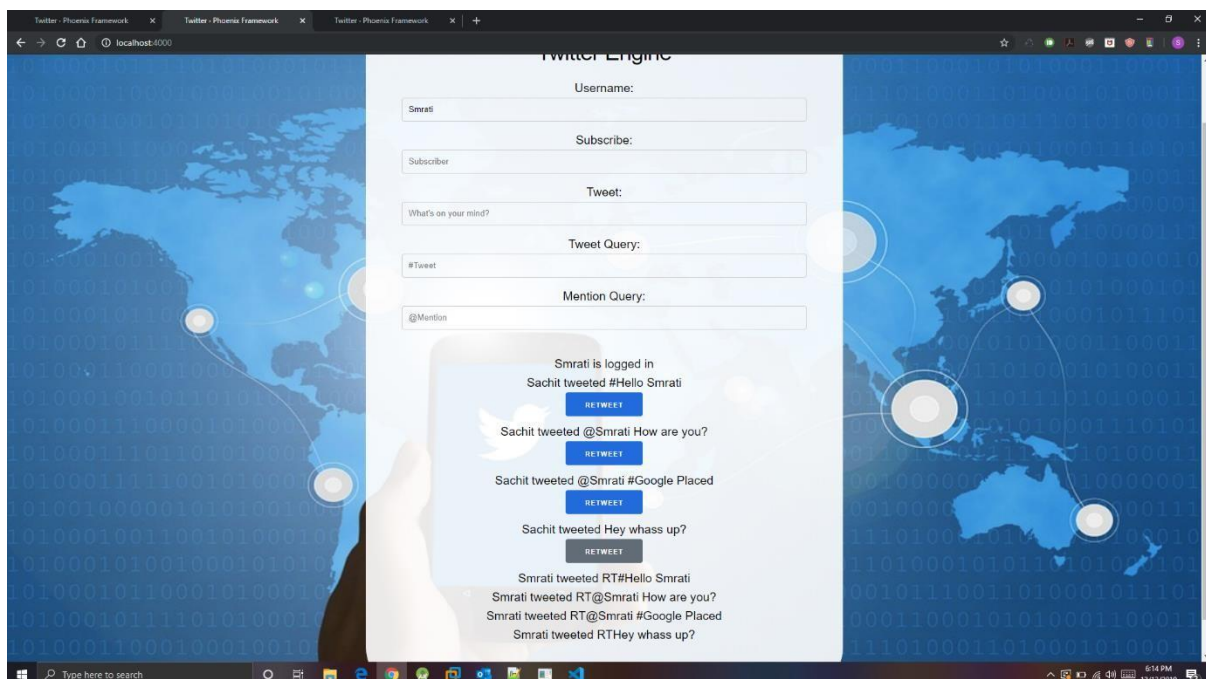
9) Different set of tweets send by user



10) The follower can retweet any message from the user's list displayed on their wall



11) The user can Further retweet the messages



These messages will be visible to the followers of the user, which is subscribed to our user.