# COP 5615: Distributed Operating Systems Principles Project 4 Part 2

# Twitter Clone implementation based on Erlang Programming Language and Websocket interface

#### **Team members**

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#### Introduction

In Project 4, part 1, we implemented a twitter simulation with features to register an account,login/logout, tweet, retweet, follow an account, view all tweets, mentions and hashtags. Now, as continuation of the project, we are adding a websockets interface to our twitter clone. We also have a User Interface now because of the websocket interface. We now have an API which is based on JSON to view all messages, responses and also, error messages. We also edited our erlang code to include cowboy for providing the websockets interface.

Youtube Video Link: <a href="https://www.youtube.com/watch?v=f8pF3Wlu\_qQ">https://www.youtube.com/watch?v=f8pF3Wlu\_qQ</a>

### Instructions to execute the project

Install the latest version of erlang and cowboy on a mac machine. Download the **project4part2.zip** and unzip it to any desired path.

#### Step 1:

Go to the location of twitterclone.html path in the project and open a new terminal there

#### Step 2:

First open a terminal where the project files are located and run command

- erl sname centralserver

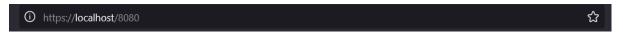
### Step 3:

Then run the command to compile all the erlang files in the command terminal:-

- 1. c(main).
- 2. c(registerfunc).
- 3. c(sendreceive).

#### Step 4:

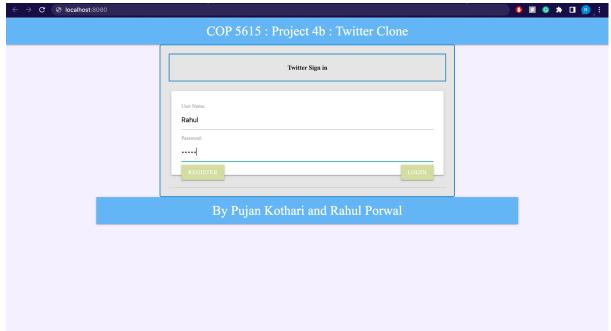
Then go to your browser and type localhost:8080 and open twitterclone.html in another tab

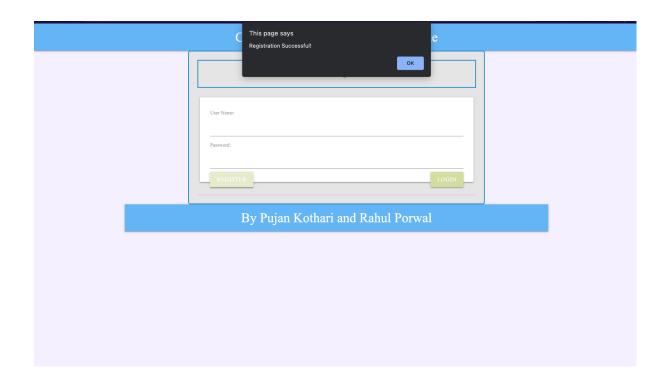


# **Functionality Implemented-**

• Account Registration

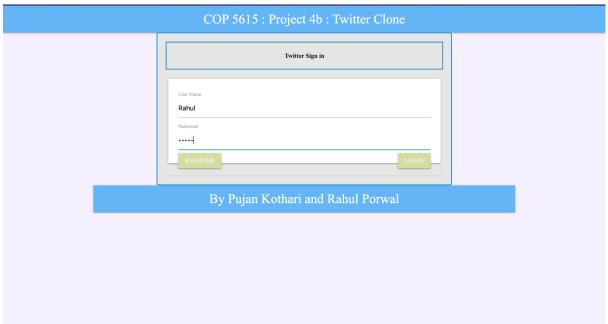
Registering account with name Rahul.

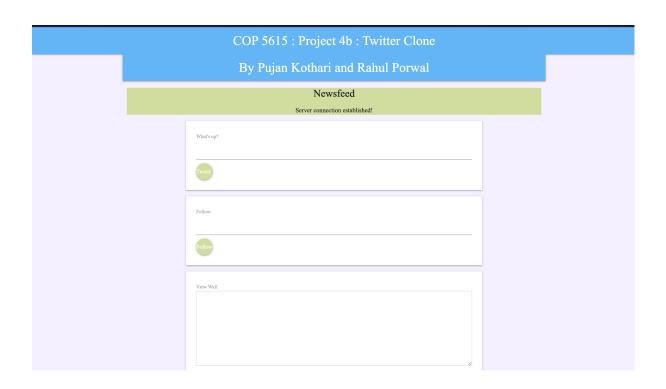




# • Login into Account

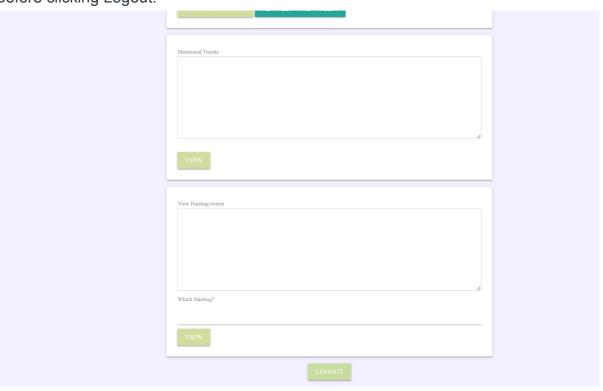
Logged in Rahul's account



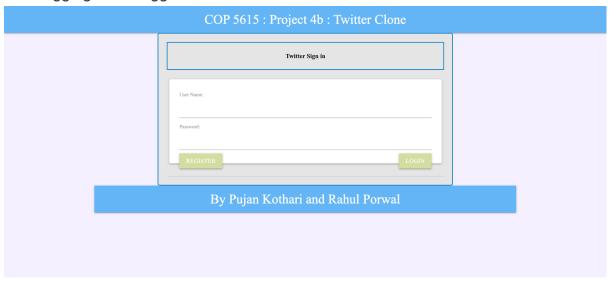


# Logout

Before clicking Logout:-

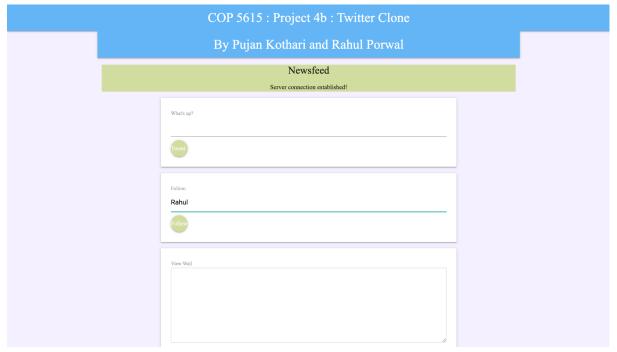


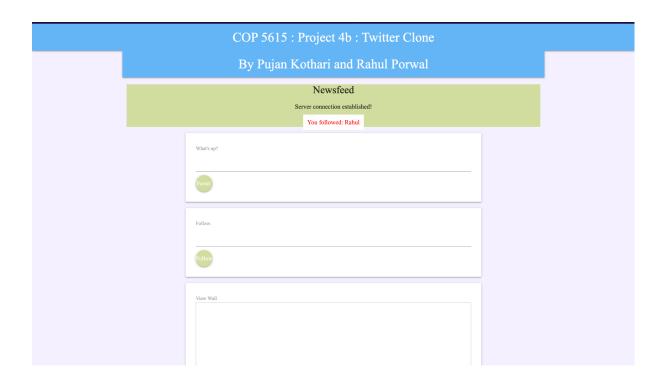
After logging out:- Logged out of Rahul's account



### • Follow an account

Followed Rahul's account from Pujan's account



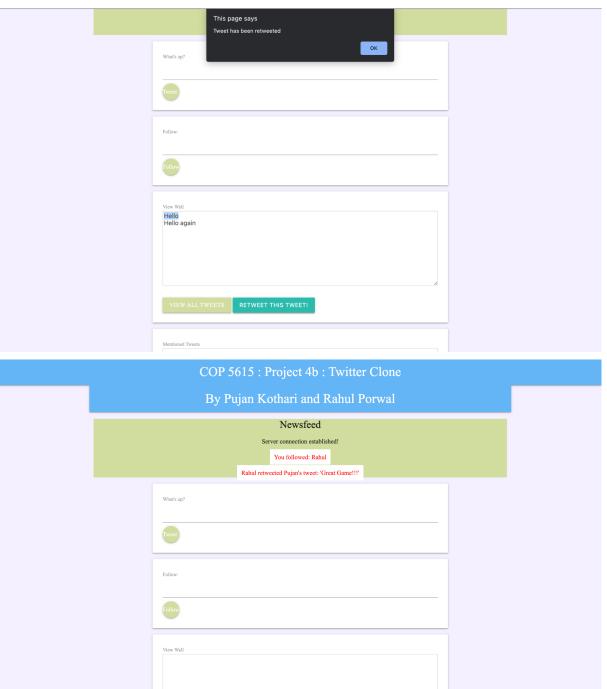


### Tweet

Livefeed of Pujan shows Rahul's tweet

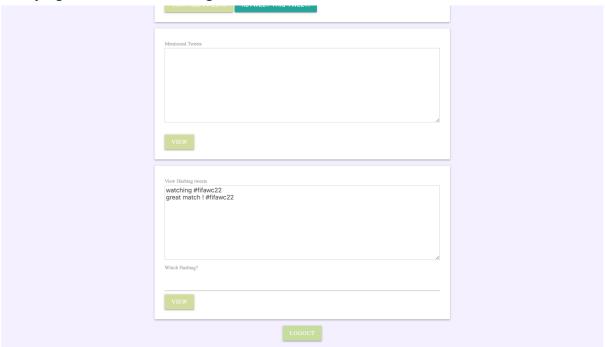


### Retweet



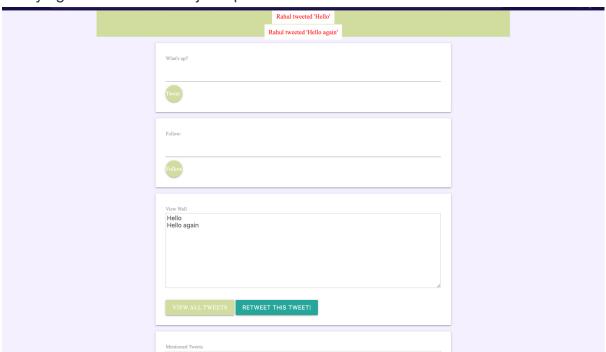
## • Query all tweets with a specific hashtag (#)

Querying all tweets of hashtag fifawc22



# Query all tweets

Querying all tweets from Pujan's profile



• Query all tweets where user is mentioned (@)

