

Project4_2 Report

Group member:

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How to start: (run in the windows terminal)

1. Put the whole folder under the path C:/
2. Go into the nitrogen/myapp
3. Run the file start.cmd
4. Open the <http://localhost:8000/my/client> in the browser.

Video Link:

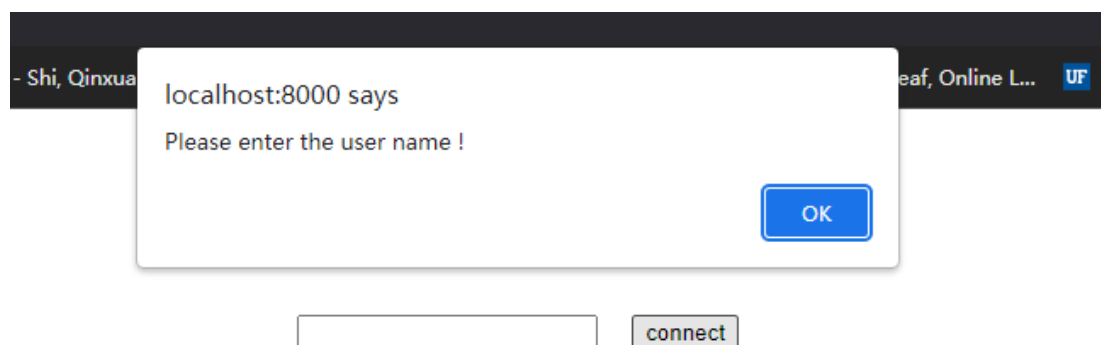
<https://youtu.be/xwfgalvjFhM>

What is working:

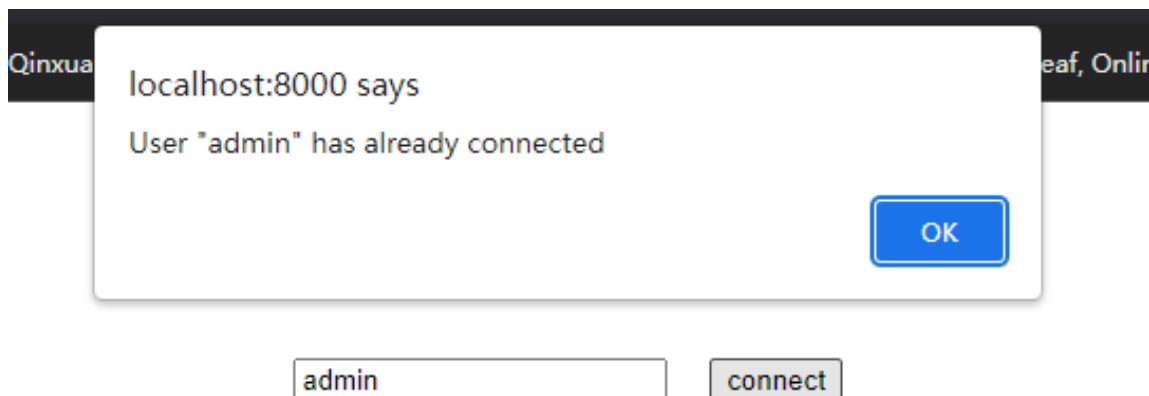
1. Register account and connect to the engine.
2. Disconnect from the engine.
3. Send tweets, including hashtags and mentions.
4. Users can subscribe to other's tweet accounts.
5. Users can retweet an interesting tweet to let his subscribers see.
6. Query tweets by hashtags, mentions and subscribers.

Implementation detail:

First is the login. The user is required to enter the name to connect to the twitter client. If the user just clicks the button "connect" without entering anything in the text box, there will be an alert to ask the user to enter the name.



After the user enter the name and click the button, the server will also check if the username entered has already connected to the server. If so, there will also be an alert to inform the user that the name he entered has already connected.



Then, the user can reach the client interface. On the top is the current username and the quit button. The current username is stored in the server as well as the page state. If we close the browser, then the page state will be cleared. If we click the quit button, the current user will disconnect, be deleted from the current user list from the server and the browser will redirect to the place to login.



Then the text area below is used to show the tweets after we query them. To get these tweets, we need to choose three conditions: tweets from the tweeters that you subscribed to; tweets that you are mentioned and hashtag. Here we use two checkbox and one textbox for users to choose, which is more convenient than three textboxes. Then click the search button and all the tweets as well as the tweets that they retweeted will be showed in the text area.



Then are the functions of sending tweet and retweet. If you just want to send a new tweet, you don't need to enter anything in the first textbox, you only need to enter your tweet content in the second textbox and click send. You will know if it is sent successfully from the alert. About the retweet, which is shown in the second picture below. You can get the tweet id from the text area which shows the tweets above and add the content on it.

username : admin

Congratulations!

☐ subscribed ☐ mentioned

retweet on : enter content : hello @qinxuan #DOSF

tweet id : admin0001 user name : admin
hello @qinxuan #DOSF

☐ subscribed ☒ mentioned

retweet on : admin0001 enter content : whatsup @admin

The last function is subscribe. The user needs to enter the user name that he wants to subscribe to, and click the button. After that the user will be informed that he has subscribed successfully, and he can receive all the tweets send by the user he subscribed to.

username : qinxuan

Subscribe successfully!

☐ subscribed ☒ mentioned

retweet on : admin0001 enter content : whatsup @admin

admin