

General Overview

When the user first runs the program, they are first prompted to enter their database.

The user is then given 3 options: 1) Login, 2) Registration, 3) Exit program

- 1) Login, the user is prompted to enter their username and password. When successful, the program continues.
- 2) Registration: the user is prompted to enter their name, email, city, timezone, and password. The user is given a generated userid to login. When successful, the program continues
- 3) The program shuts down

After the first menu is passed, another menu is displayed. The user's tweet feed is first shown, which consists of 5 tweets and retweets that the user follows. And the user is given 6 options: 1) Next page, 2) Previous page, 3) Look at tweet, 4) Post, 5) Search, 6) Logout

- 1) Next page: the user is shown 5 more tweets from users that they follow
- 2) Previous page: the user is going back up a page for their tweet feed
- 3) Look at Tweet: the user is prompted to choose one of the tweet in their current feed to reply to or to retweet
- 4) Post: the user is given the option to create a post
- 5) Search: the user is first prompted with 2 options: 1) search tweet and 2) search users
 - 1) the user is shown 5 tweets that match their key words, the user can either quit the search, go to next page, or select a tweet. But if the keyword includes a #, it looks for that term in the mentions table and looks for the tweets that are mentioned by it. If the user selects a tweet they are given the option to retweet or reply
 - 2) the user is shown 5 users whose names or city match their keywords, the user can select a follower and is shown that user's number of followers, followees and their 3 most recent tweets. They are also given the option to follow or see more of their tweets
- 6) Logout: the user logs out and is returned to the first menu.

high level introduction and may include a diagram showing the flow of data between different components; this can be useful for both users and developers of your application

General Overview

Main -> runs program

Session -> Starting screen, goes into Dashboard

Search -> search tweets, search users, display and select

Dashboard -> where you choose options,

Goes into Tweets, Users, Search, Show_Tweets, Show_Users

Show_Tweets -> Connection for Dashboard to Tweet functions

Show_Users -> Connection for Dashboard to User functions

Testing Strategies

We Try Catch Else clause is used to ensure the correct values are being inputted into the database in order to avoid errors during the registration. In the display function in the search file, it ensures that the selected number actually matches what is displayed in the current page

Group Work

Group Strategies

VS Code Live-Share

> We used Live-Share to collaborate on documents at the same time towards the end of the project. That way we could make quick changes to functions without worrying about having trouble merging to the main branch of github. It also made it easier to test bugs and fix errors encountered when running the program in the terminal.

Github Branches

> Used to split up work and implement functions independently without interfering with the main branch.

Work Split

Jayden (jluc)

Search Function (1 day)

> queries for searching 'users' and 'tweets' from keywords

> write a display function to display the result

- > lets users select one of the results
- > create a test database (1 hour)

Yuming (yuming7)

- Followers Function, see followers (1 day)
- > queries to retrieve list of followers of the user
- > print the list of followers
- > find the list of followees
- > printing the list of followees
- > follow another user

Is (hansanya)

- Users and Tweets (1 day)
- > print user string
- > display selected user and their tweets and stats
- > print tweet string
- > print detailed tweet string with retweets and replies
- > display a selectable list of followers and followees
- > follow function
- > return list of followers and followees

Christine(clbao)

- Login page (2 days)
- > Login
- > Logout
- > registration
- > dashboard
- > display information about the user

Everyone collaborated to link everything in the main.py (1 day)