DOSP Project 4 (Part 1) Twitter Clone - ReadMe

Team members:

Tushar Ranjan – 45562694 Sankalp Pandey – 92878142

How to run:

- 1. Server:
 - a. Change directory to 'Twitter_Server' folder and run the file "Server.fs" using command dotnet run
- 2. Client:

Change directory to 'Twitter Client' folder and run the file "Client.fs" using:

- a. **dotnet run client** to run twitter with all its features.
- b. dotnet run simulate to test twitter

What is working:

Bonus: (Finished)

We have implemented SHA256 encryption on the password entered by the user. The input (string) password is encrypted and then stored in database to tackle any kind of data breaches. While logging in, to match the password we first decrypt the string corresponding to the user id and then match it with the entered password.

Basic requirements: (Finished)

- 1. Client:
 - Sign up On running client user is asked to either login or signup, if he/she is new to the program they will be given an option to create a unique user id, a password, and a name
 - Login User can login to their account using their unique id and password, once logged in all the queried tweets will be displayed.
 - Tweet User can tweet anything with hashtags (#) and mentions (@).
 - Retweet Using the tweet id, user can retweet any tweet of their own or from someone they follow.
 - Follow One can search for another user using their unique user id and can follow them to see their tweets.
 - Logout To disconnect from the server or to login using a different account.
 - History User could see their previous tweets here, also if some retweeted their tweet that will be visible here.
 - Search hashtags User has the option to search for tweets based on a hashtag

• Search mentions – User can also search tweets based on mentions.

2. Simulate:

• Based on number of users as input the program can simulate various conditions to test the functionality and connectivity. We have set various parameters that randomly perform actions and print the output.

3. Server:

• Server will continuously print its status every second, with information on requests processed, total tweets in database, registered users and online users.