README

Team Members

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Steps to Run

Run Server : dotnet fsi TwitterWebSktServer.fsx Run Client : dotnet fsi TwitterWebSktClient.fsx

Introduction

This project uses the web socket at the Server and Client side to ensure 2-way communication between the server and client (and other client applications).

- We have implemented the registration functionality for the users. As soon as a user is registered, their status is set to online.
- Users can login or logout.
- Users can subscribe to other registered users.
- Every user, if online, can tweet or retweet.
- A tweet can be any of the following:
 - Have a hashtag.
 - Have a mention.
 - Have both hashtags and mentions.
- As soon as a user tweets something, their tweet gets updated to all of their subscriber's feed.
- For every tweet, the tweet is immediately parsed to extract the hashtags and mentions (if any) present in it. If there is any hashtag present, a record of the tweetId where it was mentioned is added in a hashmap. Same happens for any mentions present.
- When the tweets are shown in the user's feed, the user also has the option to retweet some of the tweets from the feed.
- An user also has the ability to search for any hashtags. The tweets which contain the searched hashtag are shown on the user's feed. In case the hashtag is not used in any tweet yet, no tweets are shown.
- An user also has the ability to search for mentions. All the tweets where the user is mentioned is shown on the user's feed. In case he has not been mentioned in any tweets yet, then we display a message saying "The user has not been mentioned yet."

How to use

- \bullet To register user : Register, <username>,<password>
- To login: Login, <username>, <password>
- To logout: Logout
- \bullet To subscribe to another user: Subscribe, <subscribedusername>
- To tweet: Tweet,<tweet text>
- To retweet: Retweet,<tweetId> Note: tweetId is displayed with tweet on client feed
- To see all tweets on user's feed: Query
- To query for hashtags: QueryHashtag,#<hashtag>
- To query for mentioned user: QueryMention,@<mentionedUsername>