Project 4 Part II : Twitter Clone

Group Members

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Functionality

- This project is the continuation of the project4 part 1.
- Here we have used the Suave package to generate the operations like GET and POST to implement the various functionalities like login a user, tweet etc. which were done in the AKKA.NET framework of F# in project 4 part 1. The data is stored as a JSON file.

How to Run

- The code executes by first starting the websockets server at the localhost 8080 using the following command in the directory where the program.fs file exists:Command to run the program:

```
dotnet run
```

- Next, the client will send various requests like registering a new user, logging in a registered user, etc.

- Various requests can be of the format:

  - (POST) Requests to add a new user: http://localhost:8080/register

```
{
  "user":"user1",
  "value":"user1@123"
}
{
  "user":"user2",
  "value":"user2@123"
}
```

- (POST) Login an user:

- http://localhost:8080/login

```
{
  "user":"user1",
  "value":"user1@123"
}
{
  "user":"user2",
  "value":"user2@123"
}
```

- (POST) Follow a user:

- http://localhost:8080/follow

```
{
    "user":"user2",
    "value":"user1"
}
```

- (POST) Make a tweet:

- http://localhost:8080/tweet

```
{
    "user":"user1",
    "value": "User 1 tweeted this!"
}
```

- Make a retweet

- http://localhost:8080/retweet

```
{
    "user":"user2",
    "value":"user1: User 1 tweeted this!"
}
```

- Search a tweet in the database:

- http://localhost:8080/search/parameter

```
parameter : #hashtagName, @user_ID
```