

Distributed Operating System Principle

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Build Process

- Unzip file `unzip NegiYadav.zip`
- `dotnet build src/FsTweet.Web/FsTweet.Web.fsproj` to build project
- Since this project makes use of Postgres Databae, you'd need to load the dump using `psql -U postgres database < dump_file` to load all the schema necessary for this project
- `dotnet run --project src/FsTweet.Web/FsTweet.Web.fsproj` to run the project
- Visit `localhost:5000` to view this project

What is Working

- Register account
- Send a tweet. Tweets can have hashtags (e.g. `#COP5615isgreat`) and mentions (`@bestuser`)
- Subscribe to user's tweets
- Re-tweets (so that your subscribers get an interesting tweet you got by other means)
- Allow querying tweets subscribed to, tweets with specific hashtags, tweets in which the user is mentioned (my mentions)
- If the user is connected, deliver the above types of tweets live (without querying)

API Details

Open Endpoints

Open endpoints require no Authentication.

- Login : POST /login/

Endpoints that require Authentication

Closed endpoints require a valid Token to be included in the header of the request. A Token can be acquired from the Login view above.

User

Each endpoint manipulates or displays information related to the User whose Token is provided with the request:

- Show signup page : GET /signup
- Create User for login : POST /user/
- Signup success: GET /signup/success/%s
- Logout: GET /logout

UserProfile

%s means it accepts a username of type string

- Show user profile page : GET /%s
- Get timeline view : GET /wall/
- Get all the followers : GET /followers/
- Get all the user that it follows : GET /followees/
- Create Tweet/Retweet : POST /tweets/
- Fetch all the tweets in system : GET /all/
- To follow a user: POST /follow

Websocket APIs

- Get live tweets: GET /websocket

Video Link

- Part 1
- Part 2

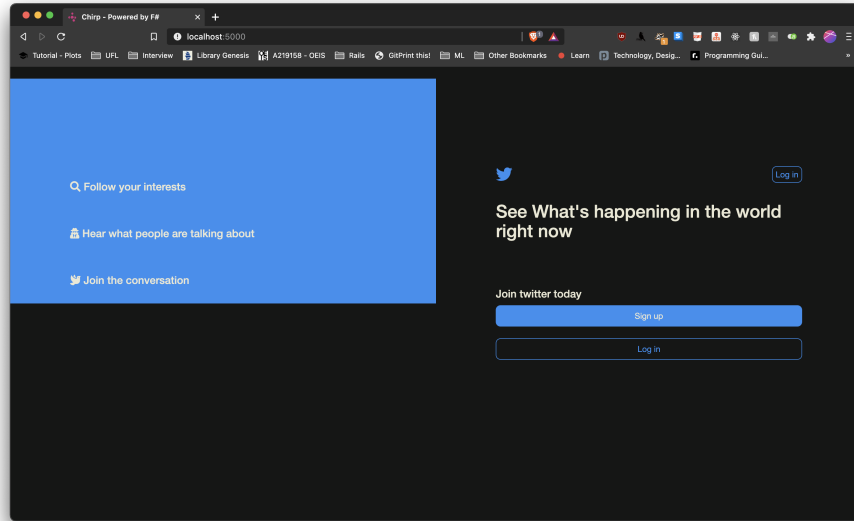


Figure 1: Index Page

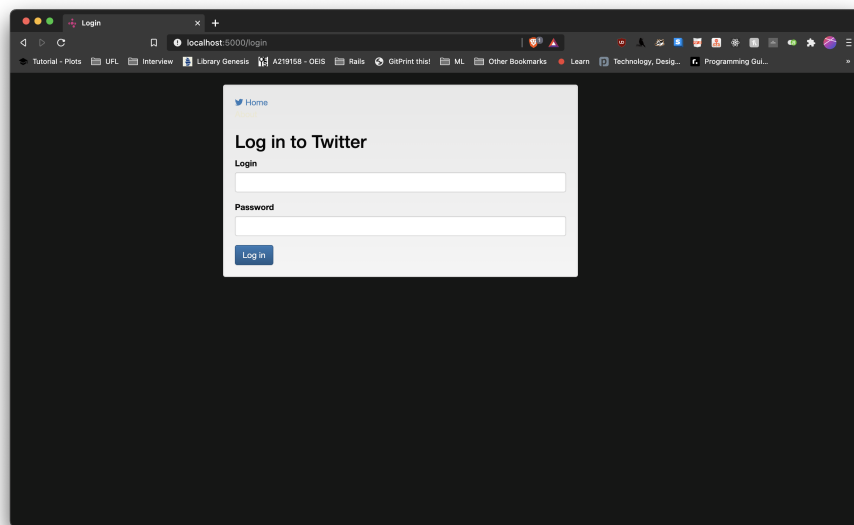


Figure 2: Tweet

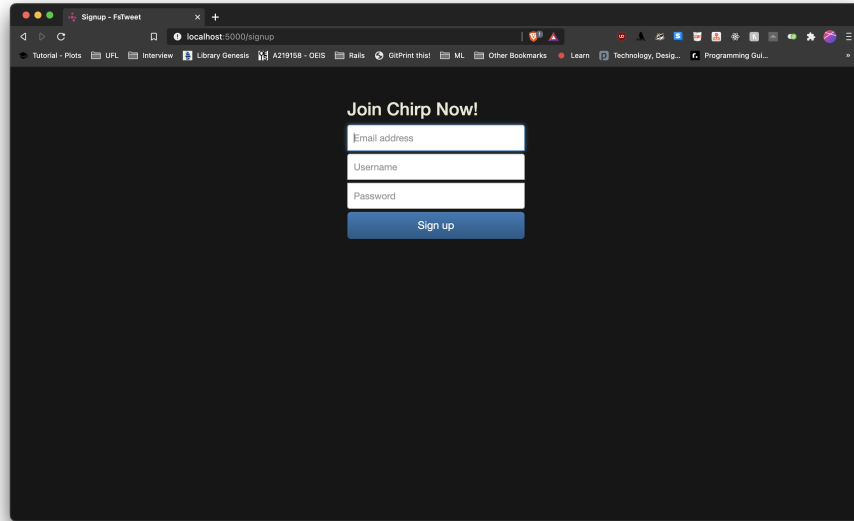


Figure 3: Tweet

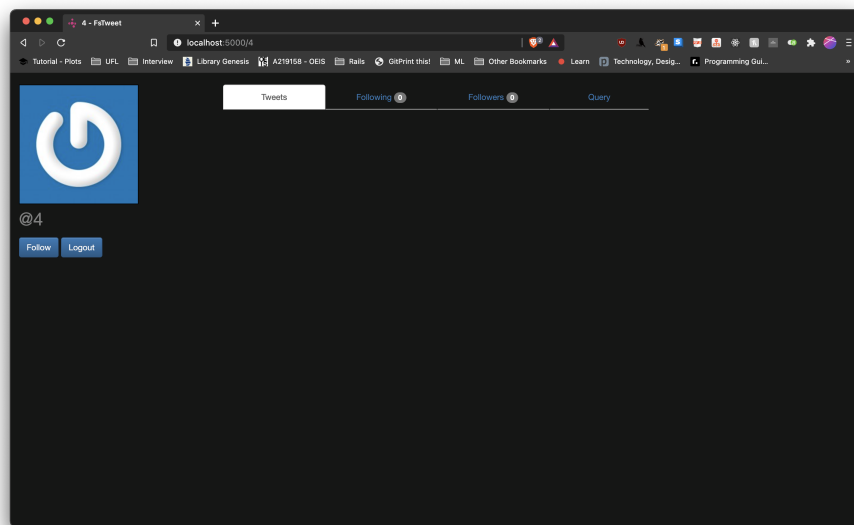


Figure 4: Tweet

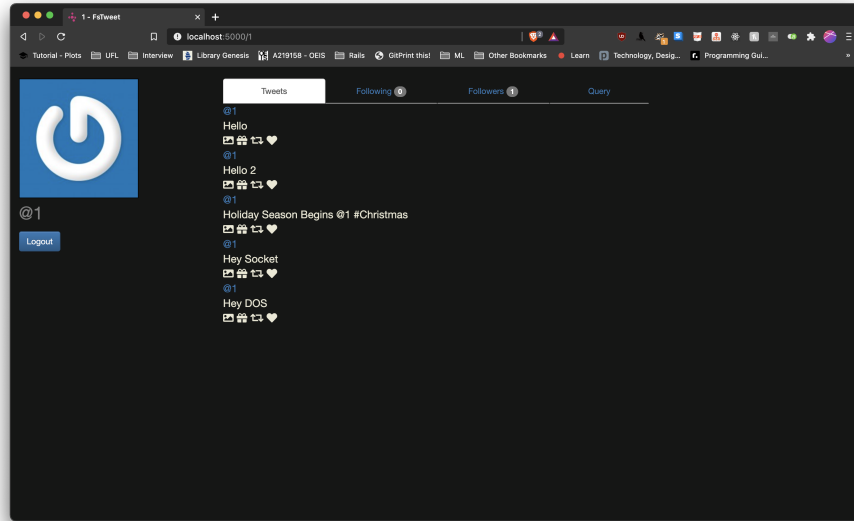


Figure 5: Register

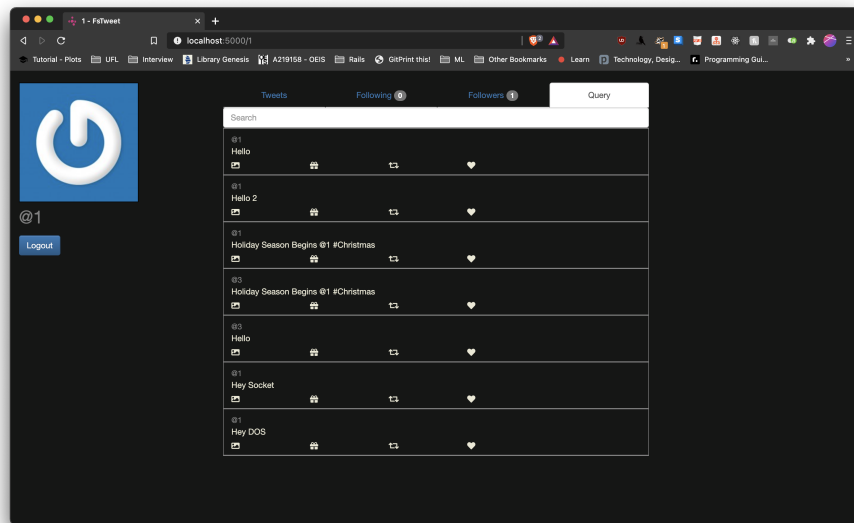


Figure 6: Register

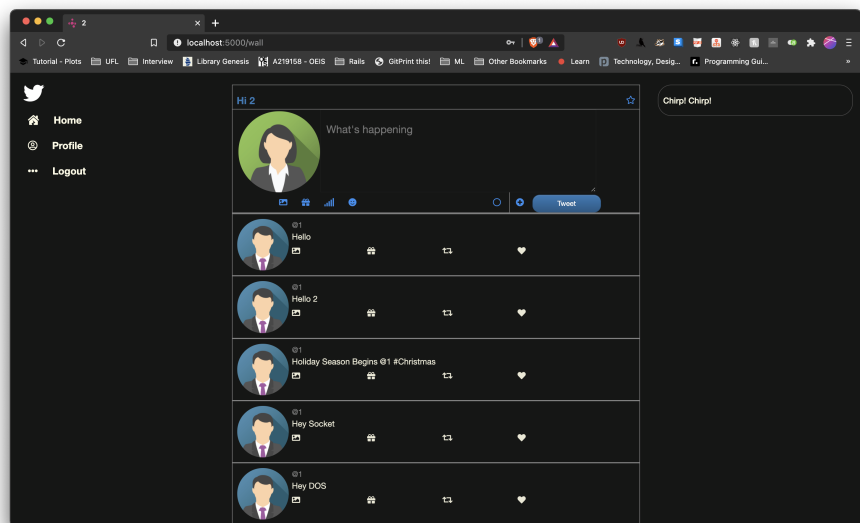


Figure 7: Register