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SoftDev pd08

P05 – Twitter Clone

2023-06-01

Time Spent: 1.3 hrs

Target Ship Date: June 13, 2023

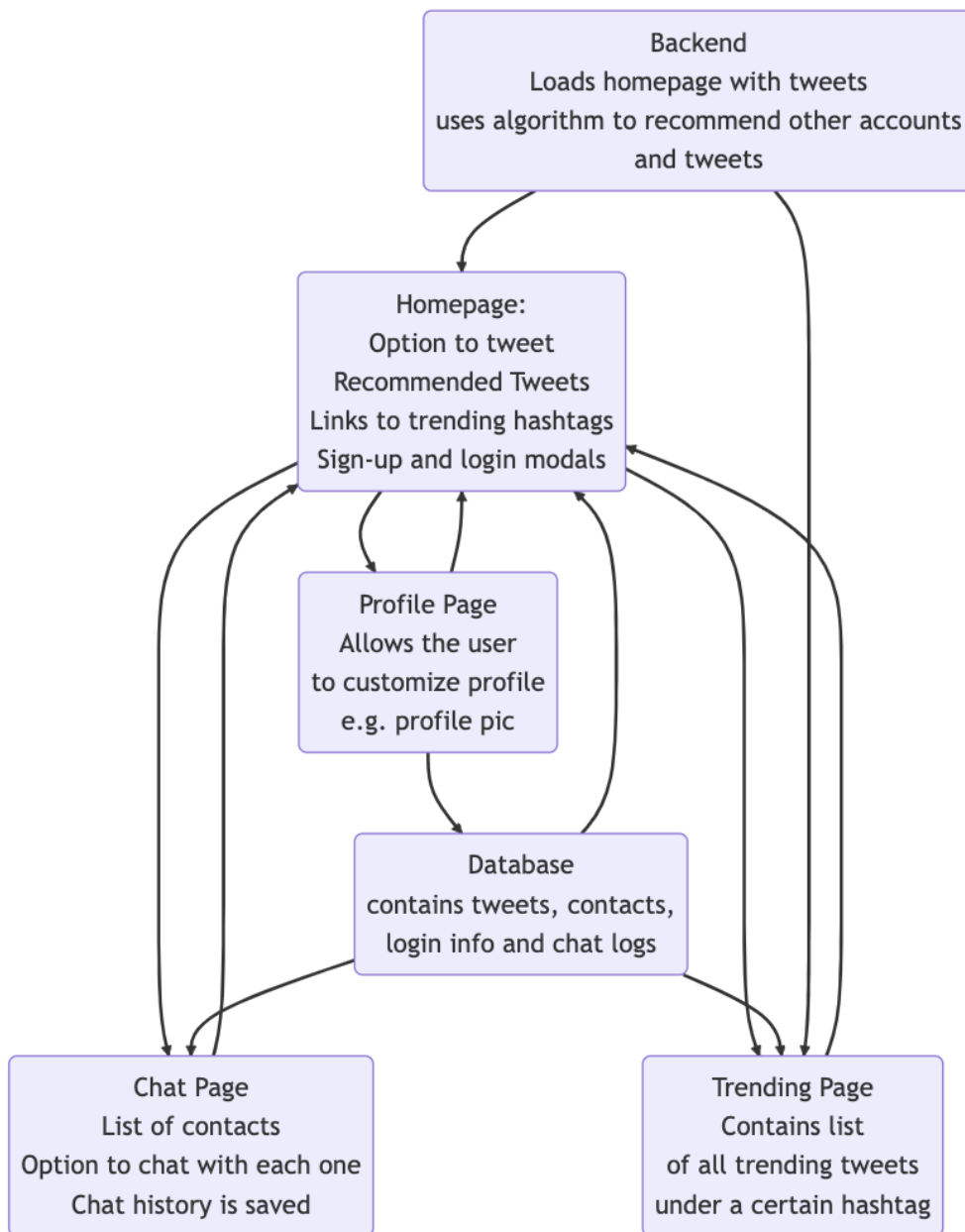
#### Project Description:

We want to create a clone of the website for Twitter. We plan on having a website where you can see tweets from other people, message them via twitter DMs, see posts that are trending, and make your own tweets.

#### Program Components:

- 1) Frontend (Home Page)
  - a) Will contain a long list of tweets. Some of these tweets will be pulled from the twitter API and some of them will be posts that the twitter user has made themselves.
  - b) Will have the option for the user to make a tweet real time
  - c) On the sides, there will be a list of other accounts the user can follow as well as other items that are trending
- 2) Frontend (Chat Feature)
  - a) Will use websockets in order to have real-time messaging going on
  - b) Will enable communication between two different accounts
- 3) Backend
  - a) Will make API calls to get tweets from the twitter API and send them to the frontend
  - b) REACH: We will try to implement algorithms which will recommend the user tweets to see and profiles that they can view
- 4) Database
  - a) One database will contain login information
  - b) One database will contain tweets from the user
  - c) One database will contain list of contacts
  - d) One database will contain chat message log

#### Component Map:



Login Information:

Username	Password

Tweets:

PostID	Post Text	Post Time	Post Likes

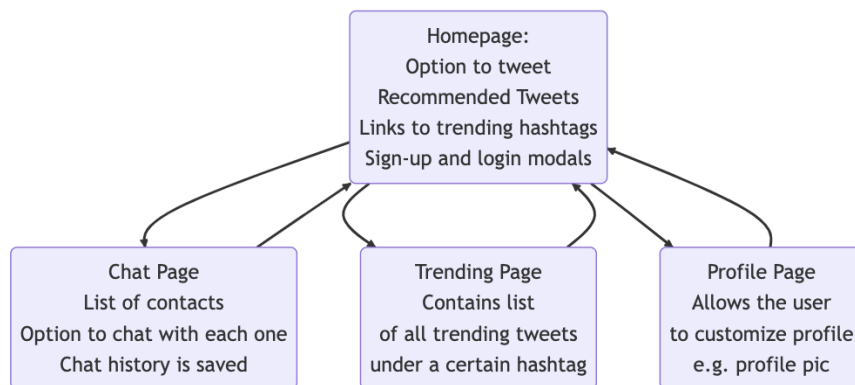
Contacts:

Contact Name	Contact Profile Picture	Contact ChatID

ChatID:

Chat ID	Chat History

Site Map:



API:

Twitter API

- Will be used in order to get real tweets

Duck API

- Will be used to generate random profile pictures for new accounts instead of sticking to the npc default picture used by twitter

Framework:

Bootstrap:

- As a whole, this is the front end framework that the team is most familiar with and the one we believe is most conducive to good clean programming

#### Task Delegation:

Nakib Abedin → Project Manager; Fullstack Developer

- In charge of staying up to date with instructions from Mr. Mykolyk
- Will attempt to setup the linkages between frontend, backend, and database needed to have tweets from the twitter API show up and will implement the tweeting feature

David Deng → Backend Engineer

- Will develop the chat feature using websockets
- Will attempt to create recommendation algorithm to find new tweets and other profiles

Eric Sohel → Database Manager

- Will develop the databases to ensure that chat history is saved and that user tweets are stored
- Will work on the likes, comments, and retweets features as they need to be stored in the database

Weichen Liu → Frontend Engineer

- Will attempt to make the website look like the actual twitter website
- Will work on the account registration features and will create animations for things like likes, retweets, and comments.