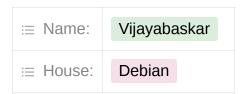
Designing 100x Micro blogging platform



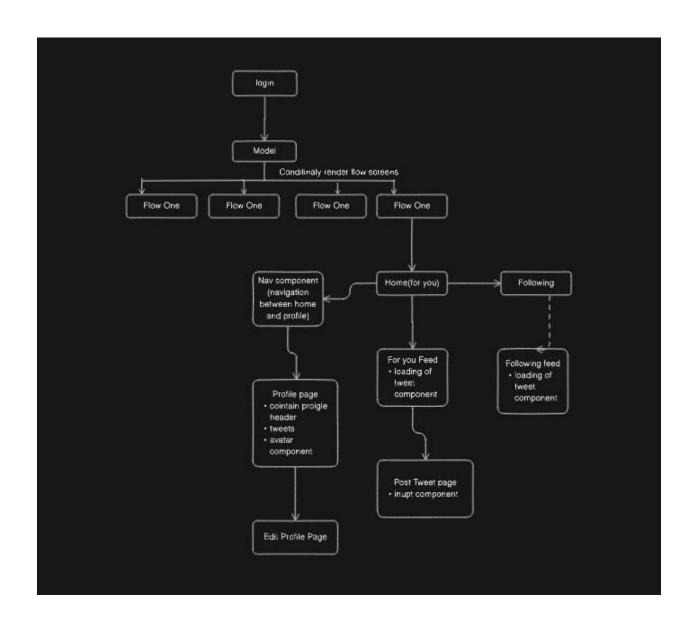
Understanding Requirements:

- we are build a twitter clone with basic functionalities, that will allow us to create
 account, post tweet's, and all other basic featue's of twitter. (note: we are not
 including image, or video to tweet, we only posting the tweets as of now)
- user registration,
 - User 's can create account, or login if they already have a account
 - o edit the account, add profile, header image, handler, and all other info's
 - user can post their tweets and other user's can view that tweets in the feed,
 - user's can intereact with others tweets via likes, commands,retweeet
 - retweeting is a feature that enable us to susbscribe to other's idea(post) and show it in our tweet's collections
- posting micro blogs
 - posting micro blogs have the typical twitter constrain of 280 character and make it work.
 - each tweet that is posted by a particular user is belongs to that user, and have a attribute's like timestamp, device is attract to it.
 - each post contian its own like, share comments and reach count's
- following users
 - Each user can follow many user
 - user's can their followed person tweets in the following tab of the homepage

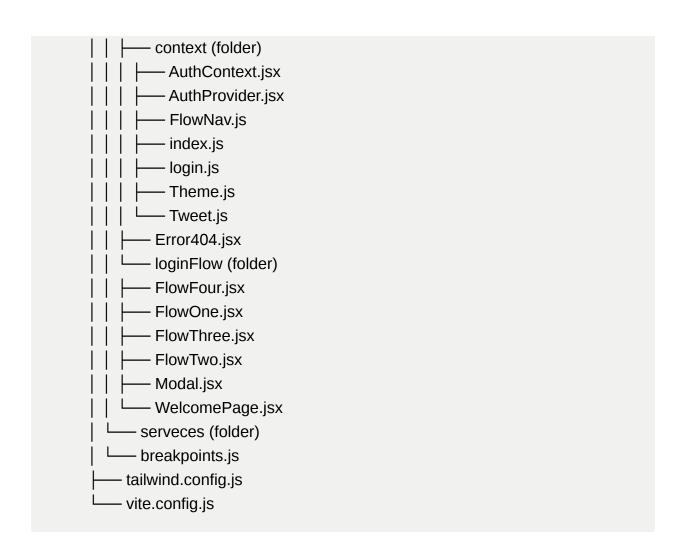
Timeline

- A profile timeline displays the latest Tweets ordered from newest to oldest from a specific public Twitter account.
- · searching,
 - user can search other user's and follow them
- mobile responsiveness and accessibility
 - get the navation to the bottom, and move the trending to other page
 - keep it simple, to the mobile user and module the component into different page's that is easy to navigate

Component Break Down



(public
	README.md
	App.css
	App.jsx -> handle the Router part of the app, ifAuth ? gotoHOme :
	gotoLogin page
	assets -> contin all the asserts foler
	— components
	bluebtn, outlineblack and image
	│
	errors, touched,rest)
	params)
	index.css
	main.jsx -> main continer component for all the other component
	routes -> (folder) differet page and their repesitve component's
	│
	— componenets (folder)
	Avatar.jsx -> user-profile image cotainer component
	ProfileHeader.jsx -> presented in the profiel tab , contains user
	info's
	ReactIcons.jsx -> like , shrare, cmd
	Search.jsx -> search bar compnent
	Trending.jsx -> trenditing component
	TweetHeader.jsx -> tweetheader coponent
	Home.jsx
	— Nav.jsx
	— Profile.jsx
	Land Tweet.jsx



State Management:

- I used context api to manage state across the app's
- Login context

```
export const LoginProvider = LoginContext.Provider;

export function useProfile() {
  return useContext(LoginContext);
  }
```

- get the input's from the login form flow one and store it in a context to be able to access it across the app
- Tweet Context

```
import { useContext, createContext } from "react";
export const TweetContext = createContext({
  tweet: [
   {
      id: 0,
      userId: "",
      tweetText: "",
      time: "",
      comments: 0,
      retweet: 0,
      likes: 0,
   },
 ],
  postTweet: (tweet) => {},
  updateTweet: (id, tweet) => {},
 deleteTweet: (id, tweet) => {},
});
export const TweetProvider = TweetContext.Provider;
export function useTweet() {
  return useContext(TweetContext);
}
```

Tweet context, that enable to share state across the app

Routing:

```
path="/"
  element={<WelcomePage />}
  errorElement={createPortal(<Error />, document.body)}
><Route
  path="loginOne"
  element={<LoginFlowOne />}
  errorElement={<ErrorPage />}
{/* {background && <Route path="loginOne" element={<LoginFlowOne />} />} */}
<Route
  path="loginTwo"
  element={<LoginFlowTwo />}
  errorElement={<ErrorPage />}
/>
<Route
  path="loginThree"
  element={<LoginFlowThree />}
  errorElement={<ErrorPage />}
/>
<Route
  path="loginFour"
  element={<LoginFlowFour />}
  errorElement={<ErrorPage />}
/>
<Route path="home" element={<Nav />} errorElement={<ErrorPage />}>
  <Route
    path="foryou"
    element={<Home />}
    errorElement={<ErrorPage />}
  />
  <Route
    path="following"
    element={<Home />}
    errorElement={<ErrorPage />}
  />
</Route>
<Route
  path="profile"
  element={<Profile />}
  errorElement={<ErrorPage />}
></Route>
<Route
  path="editprofile"
  element={<EditProfile />}
  errorElement={<ErrorPage />}
/>
<Route
  path="postTweet"
  element={<PostTweet />}
  errorElement={<ErrorPage />}
/>
```

```
</>
)
);
```

- my entire login flow is handle via createcontext and conditional rendering,
- and then my main app consist's of routing, and nested routing

Error Handling and User Feedback:

- Created a Error component that displays error
- it handle both the server error's and as well as routing errors

```
const navigator = useNavigate();
const error = useRouteError();

const handleclose = () => {
  if (error) navigator("/");
};
```

routing error is handled via useRouterError

Optimization:

• haven't implemented any optimization techniques up untill now, but going to implement it, and started to reading about optimization strategies, like lazy loading, interfaces, usereducer and useMemo.