Major Project: Setup And Intro

Introduction

In this module, we will be using react hooks and firebase to create a social networking site **CODEIAL** which will basically have the features of login, signup, post creation, and deletion, like, comment, chat etc. Using the command create-react-app “App-name”, create the app. Delete unnecessary files and set up the basic application.

Fetching Posts

In this section, we followed the following steps:

- We created a file in the utils folder for storing constants and URLs that will be required when we will fetch the data.
- Then we implemented the **custom fetch** function for fetching data from the APIs. It has 2 parameters body and customConfig.
- Here we used the try and catch method so that the app doesn’t crash when an error is encountered.
- We have used async-await syntax here with fetch.
    - An **async function** starts a request and returns a promise. When the request completes, the promise is resolved with the Response object. If the request fails, the promise is rejected.
    - The **await keyword** causes the JavaScript runtime to pause your code on this line, not allowing further code to execute in the meantime until the async function call has returned its result — very useful if subsequent code relies on that result! Therefore,

the await keyword is used before the fetch function.

- Since the body is an object and an object can't be passed in fetch function. So, if it is present it is first converted into a string and then passed through the fetch function.
- The response received is then converted into JSON format by using json() method.
- If it is a success then data in JSON format is returned otherwise an error is returned.
- For styling, we used CSS modules in which class names are scoped locally for avoiding naming conflicts.

Prop Type

We are using props as arguments at every for passing things from parent component to child component. But there is a need of validating props and this purpose is solved by **prop type**. Prop type basically checks that the prop that is being passed is **validated or not.**
Prop type has similar syntax like props that is they are also objects that as **keys** as prop names and their **values**.

Some properties of prop type:

- **Prototype.children:** It is used when we need to pass only a single child to a component.
- **Default prop type:** We can assign default values to props using the default props type.

Installation command: *npm install --save prop-types*

Summarising It

Let's summarise what we have learnt in this module:

- Created the initial stage of CODEIAL.
- Learned about prop type.

Some References:

- Async-Await
  https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Async_await
- Prop-type
  https://reactjs.org/docs/typechecking-with-proptypes.html
- Package prop-type
  https://www.npmjs.com/package/prop-types