Module-5

Redux Implementation In React Js

Task-4

B1 What is Redux?

What is Redux? Redux is **a predictable state container designed to help you write JavaScript apps that behave consistently across client, server, and native environments, and are easy to test**. While it's mostly used as a state management tool with React, you can use it with any other JavaScript framework or library.

B2 What is Redux Thunk used for?

Redux Thunk middleware **allows you to write action creators that return a function instead of an action**. The thunk can be used to delay the dispatch of an action, or to dispatch only if a certain condition is met. The inner function receives the store methods dispatch and getState as parameters.

B3 What is Pure Component? When to use Pure Component over component?

A React component is considered pure **if it renders the same output for the same state and props**. For this type of class component, React provides the PureComponent base class. Class components that extend the React. PureComponent class are treated as pure components

PureComponent Is **Primarily Used for Performance Optimization**. As outlined in the React docs: If your React component's render() function renders the same result given the same props and state, you can use React. PureComponent for a performance boost in some cases.

B4 What is the second argument that can optionally be passedtosetState and what is its purpose?

The second argument that can optionally be passed to setState is **a callback function which gets called immediately after the setState is completed and the components get re-rendered**

B5 What is the difference between React Native and React?

**React is a JavaScript library of reusable components designed to create skeletons of the apps, whereas React Native is designed to build native mobile apps with reusable components**.

B6 Which feature can we use to cause a component to render only when its ID changes?

Calling **forceUpdate()** will cause render() to be called on the component, skipping shouldComponentUpdate() .

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I1 Explain Synthetic Event?

The synthetic event is **a cross-browser wrapper of the browser's native event**. React events are named as camelCase instead of lowercase. With JSX, a function is passed as the event handler instead of a string.

I2 Stateless components

Stateless components are **those components which don't have any state at all**, which means you can't use this. setState inside these components. It is like a normal function with no render method. It has no lifecycle, so it is not possible to use lifecycle methods such as componentDidMount and other hooks.

I3 Difference between ReactJs, Angular, VUE.Js

Both - Angular JS and React JS frameworks are used to create web interfaces for front end development. **Angular is Google's matured and advanced JavaScript framework based on TypeScript, whereas Vue is a progressive open-source front-end JavaScript framework created by Evan You**.12-S

I4 What do you know about Flux?

What is Flux? Flux is **a Javascript architecture or pattern for UI which runs on a unidirectional data flow and has a centralized dispatcher**. It is useful when your project has dynamic data and you need to keep the data updated in an effective manner. It was created by Facebook, and complements React as view.

I5 Create a simple page using Styled Component

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A1 You have a GroceryApp class, which receives a list of products, each one with name and votes. The app should render an unordered list, with a list of items for each product. Products can be upvoted or downvoted. By appropriately using React state and props, implement the upvote/downvote logic. Keep the state in the topmost component, while the Product component should accept props.

A2 Finish the greeter component so that it returns a div element with the text “Hell {User}” where a prop is passed to the component. For example, if user props have the value “Admin” the method should return “Hello Admin”

A3

A4 Create Rang selector for BPM Create an Admin Dashboard in React Js?

A5

A6 Create a Table and apply CRUID Operation insert Read that data using react Js. Create a Table and Search data from the table using React Js.

A7 Create a Complete website web page in React js and Host That page on the Web server or commit on GIT or SVN server