



Frontend Assignment

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Course: Front End Development

Assignment- React JS

(MODULE: React – Applying Redux)

1) What is Redux?

Ans) Well, an application has its state, which can be a combination of the states of its internal components.

Let's take an e-commerce website for example. An e-commerce website will have several components like the cart component, user profile component, previously viewed section component, and so on.

2) What is Redux Thunk used for?

Ans) Redux is a state management tool, which is used to store the state of different variables in our react application. It makes complex react applications easier by centralizing the application state.

1. dispatch: It is a method used to dispatch actions, that can be received by reducers.

2. getState: It gives access to store inside the thunk function.

A thunk function may contain any arbitrary logic, sync, or async, and can call dispatch or getState at any time. Before moving any further let's understand the difference between the flow of redux with and without thunk.

3) What is Pure Component? When to use Pure Component over Component?

Ans) A pure component is a class-based component that implements `shouldComponentUpdate()` with a shallow comparison of the props and state¹²³. This means that the component will only re-render if its props or state have changed, which can improve performance by avoiding unnecessary re-renders¹. Pure components are the default form of React and React Native components, and they extend the `React.Component` class, which means that they can have lifecycle methods, constructors, and so on³.

4) What is the second argument that can optionally be passed to `setState` and what is its purpose?

Ans) 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.

If you want your program to update the value of a state using `setState` and then perform certain actions on the updated value of state then you must specify those actions in a function which should be the second argument of the `setState`. If we would not do so then those actions will be performed on the previous value of state because of asynchronous nature of `setState`.

5) Create a Table and Search data from table using React Js?

Ans) as well as below