**MODULE: 7 (React – Applying Redux)**

1. **What is Redux?**

→ Redux is an open-source JavaScript library used to manage application state. React uses Redux for building the user interface. It was first introduced by Dan Abramov and Andrew Clark in 2015.

React Redux is the official React binding for Redux. It allows React components to read data from a Redux Store, and dispatch Actions to the Store to update data. Redux helps apps to scale by providing a sensible way to manage state through a unidirectional data flow model. React Redux is conceptually simple. It subscribes to the Redux store, checks to see if the data which your component wants have changed, and re-renders your component.

1. **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.

1. **What is Pure Component? When to use Pure Component over Component?**

→ React pure components are the components that do not re-render when the value of props and state has been updated with the same values. Since these components do not cause re-rendering when the same values are passed thus they improve performance. They prevent the re-rendering if props and state are the same.

React.PureComponent Is Primarily Used for Performance Optimization. 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.

1. **What is the second argument that can optionally be passed tosetState 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.

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.

1. **Create a Table and Search data from table using React Js?**

→https://github.com/PurvangS106/ReactJS/tree/master/assignment%20module%207%20React%20Redux/assignment%20module%207%20Que5/FIlterable%20tabledata

1. **Create Login registration with CRUD Application using API (Redux)**

→https://github.com/PurvangS106/ReactJS/tree/master/assignment%20module%207%20React%20Redux/assignment%20module7%20que.%206/login%20CRUD