**MODULE- 13 React–Applying Redux**

1. What is Redux?

* 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.
* Redux was inspired by Flux. Redux studied the Flux architecture and omitted unnecessary complexity.

1. what is the Redux Thunk used for?

* Redux Thunk 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 a parameters.

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

* Pure Component are a specialized type of components in React that optimize rendering performance by implementing a shallow comparison of props and state.
* They do not re-render when the value of props and state has been updated with the same values.
* Extending React Class Components with Pure Components ensures the higher performance of the Component and ultimately makes your application faster, While in the case of Regular Component, it will always re-render either value of State and Props changes or not.
* It is the type of components which re-renders only when the props passed to it changes and not even if its parent component re-render or if the should component update () method is used.
* It is greatly used to enhance the performance of a web application.

1. What is the second argument that can optionally be passed tosetState and what is its purpose?

* The second parameter to setState() is an optional callback function that will be executed once the setState is completed and the component is re-rendered.
* Generally we recommend using componentDidUpdate() for such logic instead.