**Module-18) React - Applying Redux**

\* **What is Redux?**

- Redux is an open-source JavaScript library for managing and centralizing application state. It is most commonly used with libraries such as React or Angular for building user interfaces. Similar to Facebook's Flux architecture, it was created by Dan Abramov and Andrew Clark.

-----

\* **What is Redux Thunk used for?**

- Redux Thunk is a middleware that lets you write functions that interact with a Redux store's dispatch and getState methods. It's used for basic Redux side effects logic, including:

* Complex synchronous logic
* Simple async logic
* Delaying the dispatch of an action
* Dispatching only if a certain condition is met

-----

\* **• What is Pure Component? When to use Pure Component over Component?**

- A PureComponent in React is a class-based component that extends the React.PureComponent class. Like regular Components, PureComponents have access to the component lifecycle methods and can manage their state. However, PureComponents implement the shouldComponentUpdate lifecycle method, which performs a shallow comparison of the component's current props and state with the next props and state. If there are no changes, the PureComponent skips the re-render, optimizing performance by reducing unnecessary updates.

- Using PureComponent can help optimize the performance of your React application by reducing unnecessary renders. Consider using PureComponent in the following scenarios: When a component's output solely depends on its state and props, and there are no side effects, such as network requests or interactions with the DOM.

    ----

\* **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 is executed immediately after the state has been updated and the component re-renders, allowing you to perform actions that depend on the new state value; essentially, it lets you run code "after" the state change has taken place.

    ----

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

- this is my projects’ link:   
https://github.com/CodeVishakha-Jain/SE\_PROJECTS/tree/main/ASSIGNMENTS/table\_search

    ----

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

- this is my projects’ link:  
https://github.com/CodeVishakha-Jain/SE\_PROJECTS/tree/main/ASSIGNMENTS/react\_redux

    ---