

Module – 18 React Applying Redux

Statement Management [Redux, Redux-Toolkit or Recoil]: -

1. What is Redux, and why is it used in React applications? Explain the core concepts of actions, reducers, and the store.

- Redux is a state management library used to manage and share the state of an application across multiple components in a predictable way.

Why is Redux used in React: -

1. Centralized State – Keeps application state in a single store.
2. Predictability – State Updates are consistent and easy to debug.
3. Easier State Sharing – Simplifies passing data between deeply nested components.

Core Concepts: -

1. Actions: -

- Specify the type of state change (e.g. increment, decrement).
- Plain JavaScript Objects describing what should happen.

2. Reducers: -

- Functions that determine how the state should change based on an action.
- Take the current state and action, and return a new state.

3. Store: -

- The Centralized place where the state lives.
- Holds the state and allows updates through actions.

2. How does Recoil simplify state management in React compared to Redux?

- Recoil is a state management library for react that simplifies handling state by integrating seamlessly with react modern features like hooks.
- Recoil state management by eliminating much of the boilerplate code required in Redux, making it easier to set up and use.