**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**.

**2. 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 get State as parameters.

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

Pure Component is a subclass of Component with a built-in optimization for re-rendering.

Pure Component, it performs a **shallow comparison** on both props and state to determine if the actual values have changed. If the shallow comparison indicates that the new props and state are the same as the old ones, react skips the re-rendering process.

**4. 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 in React is a **callback function**. Its purpose is to execute code immediately after the state has been updated and the component has re-rendered

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

[**https://github.com/tushar207/Redux-Assignment/tree/main/create\_table**](https://github.com/tushar207/Redux-Assignment/tree/main/create_table)

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

[**https://github.com/tushar207/Redux-Assignment/tree/main/crud\_register**](https://github.com/tushar207/Redux-Assignment/tree/main/crud_register)