**React JS**

**Redux** : Redux is a statement management library or tool often used with react JS as well other library and framework. Using Redux we can make global state variable. Redux manage and centralize application state in a predicate way.

**Redux components**

**reducer**: reducer is a Pure JavaScript function which takes 2 parameters. 1st parameter is initial state and 2nd parameter action. Base upon **action** it will do the change on global state variable.

**store**: store is a concept provided by redux. Which help to store entire state variable part of that application. If variable is part of store it consider as global state variable. If is part of component it consider as local state variable part of that components.

**actions**: state variable part of store is ready- only variable. Base upon action inside reducer we can do the changes on those variables. Like add, delete, update and retrieve etc.

**dispatch**: dispatch is responsible to send the action to store to do the change on state variable part of store.

To Enable redux features to current project. We need to take the help of Provider tag. This tag is part of react-redux module. this tag we need to wrap for parent component. which contains store attribute and need to pass store reference.

**useSelector():** using this hook we can access the **global state** variable part of store.

**useDispatch():** it is use to dispatch or send the action to reducer to do the changes on global state variable part of store.

npx create-react-app react-with-redux-app

cd react-with-redux-app

npm install **redux react-redux**

open the project in VS code

npm start

**routing**

routing mainly use to navigate one component JSX code to another component JSX code in SPA application. Routing is third party module.

Once you create the project we need to install the routing modules

npm install **react-router-dom**

**<BrowserRouter>** Enable browser routing features in React JS

<Routes> Wrap all router definition

<Route> this tag define individual component route rules

<Link> navigate one component to another component without re-loading whole page.

**useNavigate()** : this hook is use to navigate with conditions.

**npx create-react-app react-routing-demo-app**

cd react-routing-demo-app

npm isntall react-router-dom

open the project in VS code

npm start