**Day 3 :21 Jul. 24**

**useState()** : This hook is use to create state variable in functional components.

**useReducer()** : if we want to write any complex logic for particular component then userReducer() hook responsible to provide external functionality using reducer.

Context API : Context API is a part of react js which provided two hook **createContext()** and **useContext()** which help to share the data between one component to another component doesn’t matter their relationship on n level.

This concept is use full when we are developing small level application.

Redux is a third party library which help to make local state variable as global variable. Redux also known as predictable state container for JavaScript.

JavaScript with Redux

React with Redux

Angular with Redux NgRx

Redux Design pattern

3 core principles

1. Single source of truth ie store
2. State in ready only
3. Change for state variable part of store using Pure JavaScript function ie reducer.

Key concept

1. store : it is use to store the variable of any types.
2. reducer : Pure JavaScript function takes 2 parameter initial state and action
3. dispatch : with help of dispatch we can pass action as well as payload. Using action we do the changes on state variable part of redux store.
4. action : action is uses to do the change on state variable.
5. state : consider as global variable with help to store

react with redux with class object we are/were using connect HOC concept to connect reducer.

From react with hook they provided two hook ie

useSelector() : it is use to access global state variable in each components. Doesn’t matter their relationship.

useDispatch() : it use to pass the action and payload to reducer function. Reducer function do the state on state variable part of store base upon type of actions.