**Day 8:**

**npx create-react-app context-api-operation**

cd **context-api-operation**

open the project in VS code

npm start

App -🡪root

UserComponent --🡪 Parent Component

AddUser DisplayUser -🡪Children

**Redux :** Redux is a predictable state container tool for JavaScript application.

Using Redux we can make local state variable as global state variable.

It helps to manage the local state variable of entire application in a single global store. If we use redux which help to track the changes on state variable, easy to debug and easy to test.

Redux Vs Context API

It is an external it is a part of react. Which help to

State management tool. Avoid props drilling and mainly

Use for basic state sharing.

It is use in enterprise or complex it is use to small application

application level

concept we use as

global state, action, dispatch minimum setup

and store, **reducer**

it support middleware features middleware not support any third party middleware

hook in redux hook in context api

useSelelector(), useDispatch() createContext(), useContext()

Redux we can use with plain JS, React as well as Angular (ngrx as redux module)

**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

**reducer :** reducer is a simple JavaScript function which takes two parameters.

1st parameter is initialState and 2nd parameter is action. Base upon action it will do the change on global state variable part of store.

Store : store is a part of redux module (which we installed). Store help use to make variable as global state variable. While creating store we need to take the help of createStore (legacy) and need to pass reducer reference. Store connect to reducer functions.

Redux provided one of the pre defined tag as Provider.

This tag is part of react-redux module which you need to wrap for parent

Component with store reference to enable redux store features in all child component.

We ned to use

useSelector() hook to access the global state variable part of store.

useDispatch() is use to dispatch the action to reducer function do to change on global state variable.