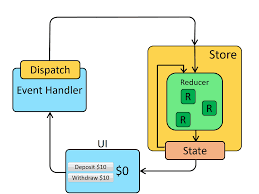
Day 8 : 21 Nov 2024

Redux Redux is known as state management tool or Library for JavaScript application. Redux is third party library we can use with Plain JavaScript, react or Angular (ngrx) etc. Redux helps us to manage the state variable of an application in a predictable way by using centralized store, action and reducer.

1. Using props as well as props with callback we can share the data.
2. Using context api we can share the data which all component come under one tree structure.
3. Using redux we can make local state variable as global state variable with help of store.

Redux components

1. State : it is use to describe the behaviour of components.
2. Store : redux provide store features which help to make local state variable as global variable. If the variable is a part of store it consider as global state variable.
3. Action : it is a plain JavaScript object that describe an event or action that has occurred. Using actions we can do the change on state variable part of store.
4. Reducer : it is pure JavaScript function which take two parameter 1st current state and 2nd action. Base upon action we can do the change on state variable part of store.
5. Dispatch : it is use to send the event or action to reducer.



create-react-app react-with-redux

cd react-with-redux

npm install redux react-redux

to Enable store features in React Component. react-redux module or library provided pre defined tag is Provider. Which contains store attribute and pass the reference of store file as value and wrap for App or parent components.

If we want to access state variable which is part of store. React provided useSelector() hook. Which takes callback function and return the value.

useDispatch() hook is use to pass the action to reducer with payload data.

Redux Vs Context API

1. Redux support centralized state management for large application. Context API help use to share the data between component to another component for small to medium application.
2. Redux support global app state stored in single store. Context API state is shared within a specific tree of a component.
3. Performance wise redux is good than context api.

Custom hook

Hook we can use only in function component no in class component.

useState

useEffect

useReducer

useSelector

useDispatch