**PART – 01**

**( Introduction )**

**PART – 02**

**( Folder structure , Prerequisites and Home page Design )**

Step(1) : create a new project by using below command:

npm create vite

than follow instructions

Note: to run project use below command-

npm run dev OR npm start

Step(2): Create a folder **components** inside src folder than create three components – UserDetails.jsx , Navbar.jsx and DeleteAllUser.jsx inside components folder.

Step(3): Install below things inside project folder:

1. npm i @reduxjs/toolkit
2. npm i react-redux

**PART – 03**

**( CreateSlice method to organize state )**

Create a folder **store** inside src folder, than create a new folder **slices** inside store folder, than create a new file **UserSlice.jsx** inside slices folder.

**PART – 04**

**( Create store, understanding flow and redux dev tools )**

Create a new file **index.js** inside store folder.

**PART – 05**

**( Connect react with redux toolkit to access store )**

**We have updated index.js file on root location.**

**PART – 06**

**( Access the state data with useDispatch and action creators )**

Install chance by using below command in project folder:

npm i chance

Step(1): Create a new folder **api** inside src folder, than create a new file **index.js** inside api folder

**PART – 07**

**( Access and display user data using useSelector() and Action creators )**

Create a new file **DisplayUsers.jsx** inside components folder.

**PART – 08**

**( Deleting Single user from state )**

**PART – 09**

**( Deleting All user By One Click)**

**PART – 10**

**( Deleting All user By Using Extra reducers)**

**PART – 11**

**( Maximizing Code Reuse with Redux Toolkit's createAction Function)**

Create a new folder **actions** inside store folder, than create a new file **index.jsx** inside actions folder.

**USE BELOW CODE:**

Open UserDetails.jsx file of components folder and paste below code:

import React from 'react'

import DeleteAllUser from './DeleteAllUser'

import DisplayUsers from './DisplayUsers'

import UserSlice from '../store/slices/UserSlice'

import { fakeUserData } from '../api'

import { useDispatch } from 'react-redux'

import { addUser } from '../store/slices/UserSlice'

const UserDetails = () => {

  const dispatch = useDispatch();

  const addNewUser = (payload)=>{

    console.log("Payload:",payload);     //data to send

    dispatch(addUser(payload));

  }

  return (

    <>

        <div>

              <button onClick={()=>addNewUser(fakeUserData())}>Add New User</button>

              <h2>List of UserDetails</h2>

              {/\* <ul>

                    <li>Hi  <span style={{display:'inline-block',marginLeft:'50px',color:'red',fontSize:'12px',fontWeight:'bold'}}>Delete</span></li>

                    <li>Hello  <span style={{display:'inline-block',marginLeft:'50px',color:'red',fontSize:'12px',fontWeight:'bold'}}>Delete</span></li>

              </ul> \*/}

              <ul>

              <DisplayUsers />

              </ul>

              <hr/>

              <DeleteAllUser />

        </div>

    </>

  )

}

export default UserDetails

Open Navbar.jsx file of components folder and paste below code:

import React from 'react'

const Navbar = () => {

  return (

    <>

        <h1>Create self</h1>

    </>

  )

}

export default Navbar

Open DeleteAllUser.jsx file of components folder and paste below code:

import React from 'react'

//import { clearAllUsers } from '../store/slices/UserSlice'

import { clearAllUsers } from '../store/actions';

import { useDispatch } from 'react-redux'

const DeleteAllUser = () => {

  const dispatch = useDispatch();

  const deleteUsers = ()=>{

        dispatch(clearAllUsers());

  }

  return (

    <>

        <button onClick={deleteUsers}>DeleteAllUser</button>

    </>

  )

}

export default DeleteAllUser

Open DisplayUsers.jsx file of components folder and paste below code:

import React from 'react'

import { useSelector,useDispatch } from 'react-redux'

import { removeUser } from '../store/slices/UserSlice'

const DisplayUsers = () => {

    const dispatch = useDispatch();

  const data = useSelector((state)=>{

        return state.users;

    })

  console.log("DATA:",data);

  const deleteUser = (id) =>{

    dispatch(removeUser(id));

  }

  return (

    <>

    {

        data.map((user,id)=>{

            return <li key={id}>{user} <span onClick={()=>deleteUser(id)} title='Remove' style={{float:'right',color:'red',fontWeight:'bold',cursor:'pointer'}}>Delete</span></li>

        })

    }

    </>

  )

}

export default DisplayUsers

Open UserSlice.jsx file of slice folder inside store folder and paste below code:

import { createSlice } from "@reduxjs/toolkit";

import { clearAllUsers } from "../actions";

const userSlice = createSlice({       //creating slice

    name:"user",

    initialState:[],

    reducers:{                       //reducer for single reducer

        addUser(state,action)

        {

            state.push(action.payload);

            console.log("addUser: ",action.payload);

        },

        removeUser(state,action)

        {

            console.log("Remove:",action.payload)

            state.splice(action.payload,1);   //action.payload represents id and 1 represents how many records want to delete

        },

        /\*clearAllUsers(state,action)

        {

            console.log("clearallusers:")

            return [];

        }\*/

    },

    /\*extraReducers(builder)  //extra reducer for multiple reducers

    {

        builder.addCase(userSlice.actions.clearAllUsers,()=>{

            return [];

        })

    }\*/

    extraReducers(builder)  //extra reducer for multiple reducers, need to add in every slice or we can call

    {

        builder.addCase(clearAllUsers,()=>{

            return [];

        })

    }

});

console.log("Actions: ",userSlice.actions);

export default userSlice.reducer;

//export const{addUser,removeUser,clearAllUsers} = userSlice.actions;

export const{addUser,removeUser} = userSlice.actions;

Open index.jsx file of store folder and paste below code:

import { configureStore } from "@reduxjs/toolkit";

import  userSlice  from "./slices/UserSlice";

const store = configureStore({   //creating store it will accept only one object, we can pass multiple properties

    reducer:{

        users:userSlice,

    }

    //if this is single function, it will directly used as the root reducer for the store.

    /\*

        if it is an object of slice reducers,like:{users:userReducer,posts:postReducer}, configureStore will

        automatically create the root reducer by passing this object to the redux combineReducers utility.

    \*/

});

export default store;

Open index.jsx file of actions folder inside store folder and paste below code:

import { createAction } from "@reduxjs/toolkit";

export const clearAllUsers = createAction('clearAllUsers')

Open index.jsx file of root location and add below code:

import { Provider } from 'react-redux';        //added

import store from './store';                   //added

than update/use below code:

root.render(         //need to update and connected to store

  <Provider store={store}>

    <App />

  </Provider>

);

Open index.jsx file of api folder inside src folder and paste below code:

import Chance from "chance";     // to get fech api data

const chance = Chance();

export const fakeUserData = ()=>{

    console.log(chance.name({ middle: true }));

    return chance.name({ middle: true });

}

//fakeUserData();