Context API

Step 1: create context

Step 2: create ContextProvider (it provides the data , has a **value attribute**)

Wrap the components which will consume the data into the ContextProvider

Step 4 : Consume the value with the help of Consumer Components /useContext

1. In src create a folder named **context**
2. In the context folder create a UserContext.js file

import { createContext } from "react";

const userContext=createContext(null)

export default userContext

1. In the context folder make a UserContextProvider.jsx

import React, { useState } from 'react'

import userContext from './UserContext.js'

function UserContextProvider({children}) {

    const[user,setUser]=useState(

        {

            sname:'Alice'

        }

    )

  return (

   <userContext.Provider value={user}>

    {children}

   </userContext.Provider>

  )

}

export default UserContextProvider

**alternatively we can combine step 2 & 3 into a single file**

import React, { createContext, useState } from 'react';

// 1. Create a context

const userContext = createContext(null);

// 2. Create a Provider component

const UserContextProvider = ({ children }) => {

  const [user, setUser] = useState({

    sname: 'Alice',

  });

  return (

    <userContext.Provider value={user}>

      {children}

    </userContext.Provider>

  );

};

// 3. Export the context and the provider

export { userContext, UserContextProvider };

1. Wrap the components which will have access to the context value inside the UserContextProvider

const App = () => {

  return (

    <UserContextProvider>

      <Login/>

    </UserContextProvider>

  )

}

1. Create the consumer : in the components folder create a Login Component

import React from 'react'

import userContext from '../context/UserContext'

const Login = () => {

  return (

    <div>

        <userContext.Consumer>

            {

                (user)=>{

                   return  <h2>Welcome User {user.sname}</h2>

                }

            }

        </userContext.Consumer>

    </div>

  )

}

export default Login

**alternatively we can make use of useContext hook**

import React, { useContext } from 'react';

import userContext from '../context/UserContext';  // Import the userContext

const Login = () => {

  const user = useContext(userContext);  // Access the context value using useContext

  return (

    <div>

      <h2>Welcome User {user.sname}</h2>

    </div>

  );

}

export default Login;