Explore JSX syntax and its similarities with HTML, render components within the main application, and implement state in a react component using *useState.*

import React from 'react';

function **Greeting**(){

    return <h1>Hello React</h1>;

}

function **App**()

{

    return(

        <div>

        <**Greeting**/>

        <p>Welcome to react</p>

        </div>

    );

}

export default App;

import React ,{useState} from 'react';

function **Counter**()

{

  const[count, setCount]=**useState**(0);

  return(

    <div>

      <p>You have clicked {count} times</p>;

      <button *onClick*={()=>**setCount**(count+1)}>

      Click me!

      </button>

    </div>

  );

}

function **App**()

{

  return(

    <div>

      <h1>Counter example</h1>

      <**Counter**/>

   </div>

  );

}

export default App;

Pass data between components using props, display dynamic data using state and props.

import React from 'react';

function **Greeting**(props)

{

  return <h1>Hello,{props.name}!</h1>;

}

function **App**()

{

  return(

<div>

<Greeting name= “Alice”/>

</div>

);

}

Export default App;

import React from ‘react’;

function **Userprofile**(props)

{

  return(

    <div>

      <h1>Name:{props.name}</h1>;

    </div>

  );

}

function **App**()

{

  const[user,setUser]=**useState**({name:'ABCD'});

  const **updateUser**=()=>{

**setUser**({name:'Bob'});

  };

  return(

    <div>

      <**Userprofile** *name*={user.name}*age*={user.age}/>

      <button *onClick*={updateUser}>Update User</button>

    </div>

  );

}

export default App;

    <div>

      <**Greeting** *name*="Alice"/>

      <**Greeting** *name*="Bob"/>

    </div>

  );

}

export default App;

Implement the useState and useEffect hooks, understand the difference between class component lifecycle methods and hooks, and manage component state and side effects using hooks.

import React ,{useState} from 'react';

function **Counter**()

{

  const[count,setCount]=**useState**(0);

  return(

    <div>

  <p>Count:{count}</p>

  <button *onClick*={()=>**setCount**(count+1)}>Increment</button>

  </div>

  );

}

function **App**()

{

  return(

    <div>

      <**Counter**/>

    </div>

  );

}

export default App;

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

function **Example**()

{

  const [count,setCount]=**useState**(0);

**useEffect**(()=>{

    document.title='You clicked {count} times';

  },[count]);

  return(

    <div>

      <p>You clicked {count} times</p>

      <button *onClick*={()=>**setCount**(count+1)}>Click me</button>

    </div>

  );

}

export default App;

Create a form with controlled inputs, implement form validation using state, handle form submission and update components state accordingly, setup react router for client-side routing.

Implement nested routes and route parameters, create navigation links for seamless user experience.

App.jsx

import React from "react";

import { BrowserRouter , Routes , Route, Link} from "react-project";

import Home from './Pages/Home.jsx';

import Project from './Pages/Project.jsx';

import Contact from './Pages/Contact.jsx';

const **App**=()=>(

  <**BrowserRouter**>

  <**Routes**>

    <**Route** *path*="/" *element*={<**Home** />}/>

    <**Route** *path*="/Project" *element* ={<**Project**/>}/>

    <**Route** *path*="/Contact" *elemnt*={<**Contact** />}/>

    </**Routes**>

  </**BrowserRouter**>

);

export default App;

make Pages folder in src and create three folders , Home, Contact, Project.

import React from 'react';

const **home** = () => {

    return(

        <div>

            <h1>This is home Page</h1>

        </div>

    )

}

export default home

import React from 'react';

const **contact**=()=>{

    return(

        <div>

            26367272272 is my contact number

        </div>

    )

}

export default contact

import React from 'react';

const **project**=()=>{

    return(

        <div>

            These are my Projects

        </div>

    )

}

export default project