**WEEK – 7(HandsOn)**

**React**

**12. ReactJS-HOL**

**Objectives**

**1. Explain Conditional Rendering in React**

Conditional rendering means showing or hiding certain parts of the UI based on conditions (like if, else, or true/false flags).

React uses JavaScript expressions (like ternary or logical operators) inside JSX to control what gets rendered.

**Example 1:** Using if-else

function Greeting(props) {

if (props.isLoggedIn) {

return <h1>Welcome Back!</h1>;

}

return <h1>Please Log In</h1>;

}

**Example 2:** Using ternary operator

<h1>{isLoggedIn ? 'Welcome Back!' : 'Please Log In'}</h1>

**Example 3:** Using && (logical AND)

{isLoggedIn && <p>You have new notifications</p>}

**2. Define Element Variables**

**Element variables** let you store JSX elements in variables so you can conditionally assign and render them later.

**Example:**

function UserStatus(props) {

let message;

if (props.isOnline) {

message = <p>User is Online</p>;

} else {

message = <p>User is Offline</p>;

}

return <div>{message}</div>;

}

3. **How to Prevent Components from Rendering**

**Option 1: Return null from the component**

If a component returns null, **nothing will be rendered**.

function WarningBanner(props) {

if (!props.showWarning) {

return null; // Nothing gets rendered

}

return <div className="warning">Warning!</div>;

}

**Option 2: Use conditional rendering in parent**

{showBanner && <WarningBanner />}

The WarningBanner component will not even be created unless showBanner is true.

**Option 3: Use CSS to hide content (not ideal)**

<div style={{ display: show ? 'block' : 'none' }}>Content</div>

**CODE:**

**src/App.js:**

import React, { useState } from "react";

function App() {

  const [isLoggedIn, setIsLoggedIn] = useState(false);

  const handleLogin = () => setIsLoggedIn(true);

  const handleLogout = () => setIsLoggedIn(false);

  return (

    <div style={{ marginTop: "100px", textAlign: "center" }}>

      {isLoggedIn ? (

        <>

          <h1>Welcome back</h1>

          <button onClick={handleLogout}>Logout</button>

        </>

      ) : (

        <>

          <h1>Please sign up.</h1>

          <button onClick={handleLogin}>Login</button>

        </>

      )}

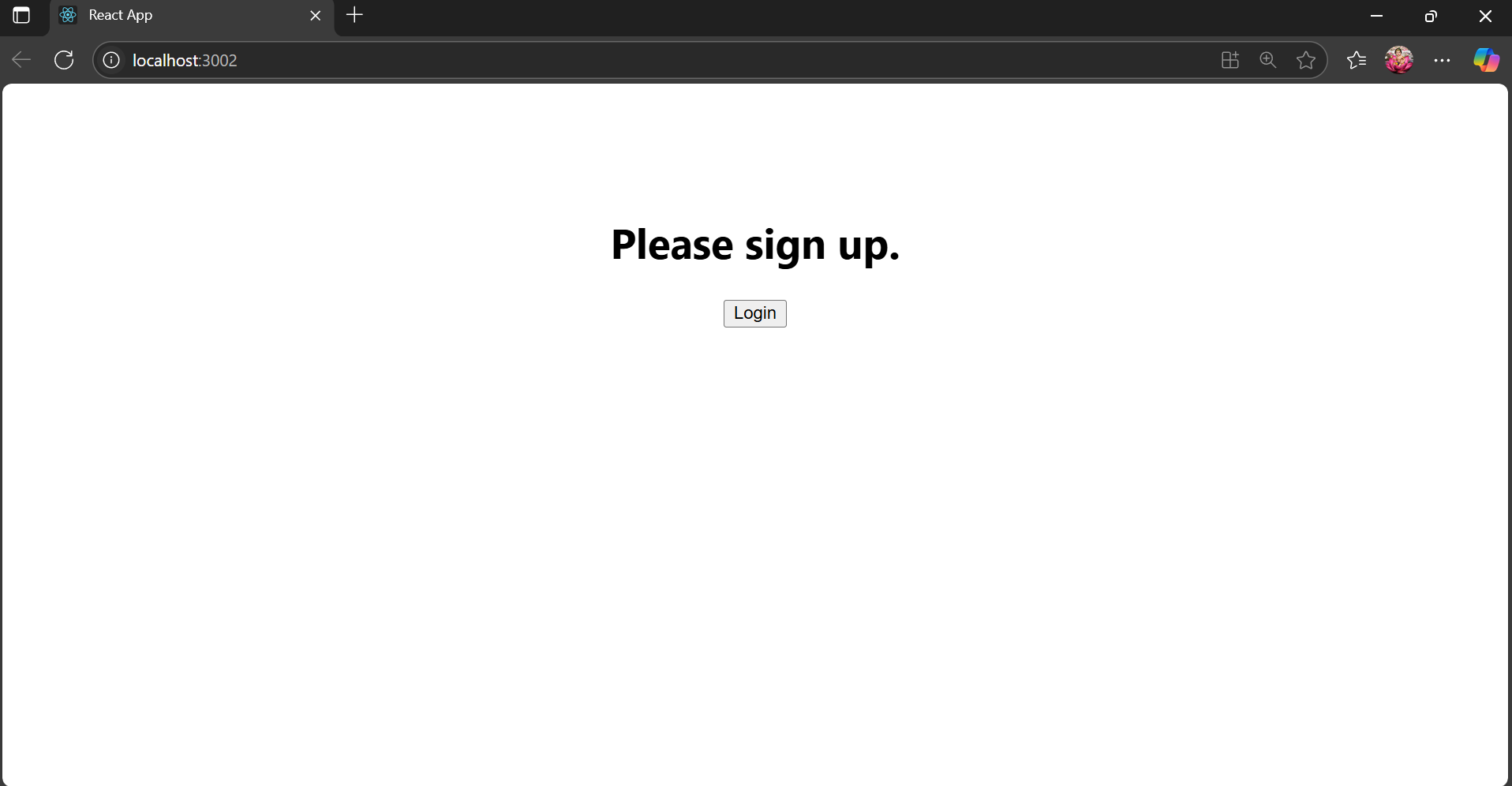
    </div>

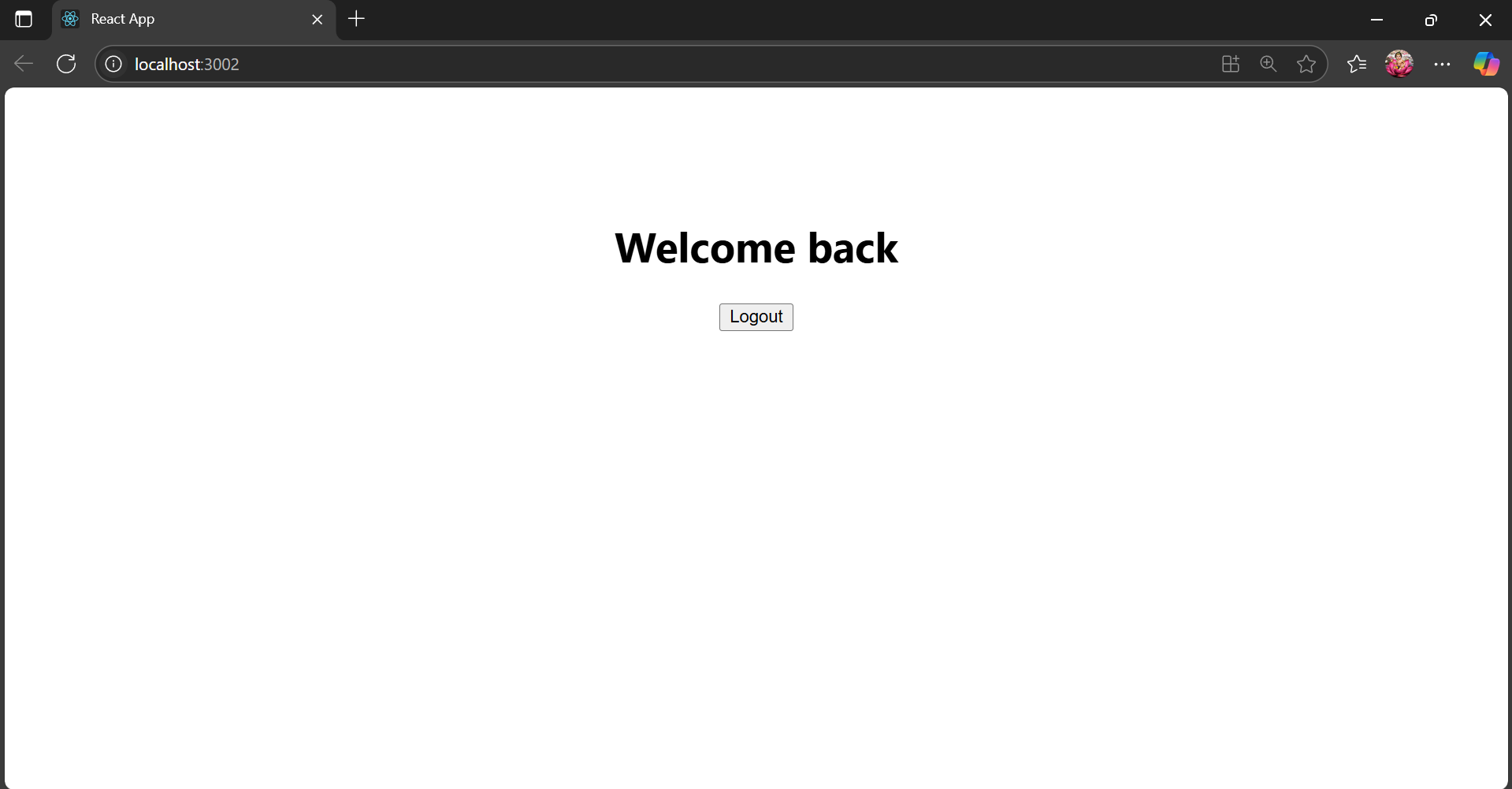
  );

}

export default App;

**OUTPUT:**

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