**ReactJS Hands-On Lab Report: Ticket Booking App**

**Objectives**

* Explain about conditional rendering in React
* Define element variables
* Explain how to prevent components from rendering

**Lab Outcomes**

In this hands-on lab, we will:

* Implement conditional rendering in React applications
* Use element variables to store and display React components
* Prevent unauthorized users from accessing restricted components

**Prerequisites**

To complete this hands-on lab, you need:

* Node.js
* NPM (comes with Node.js)
* Visual Studio Code

**Step-by-Step Instructions**

**1. Create the React App**

Open a terminal or command prompt and run:

npx create-react-app ticketbookingapp

cd ticketbookingapp

code .

**2. Clean Up Default Files**

Inside the src folder, delete:

* App.test.js
* logo.svg
* reportWebVitals.js
* setupTests.js

**3. Create GuestPage.js**

📄 src/GuestPage.js

import React from 'react';

function GuestPage() {

return (

<div>

<h2>Welcome, Guest!</h2>

<p>Browse flights below:</p>

<ul>

<li>Flight A - Delhi to Mumbai</li>

<li>Flight B - Bangalore to Kolkata</li>

<li>Flight C - Chennai to Goa</li>

</ul>

</div>

);

}

export default GuestPage;

**4. Create UserPage.js**

📄 src/UserPage.js

import React from 'react';

function UserPage() {

return (

<div>

<h2>Welcome, User!</h2>

<p>You can now book your flight:</p>

<button>Book Flight</button>

</div>

);

}

export default UserPage;

**5. Create LoginControl.js**

📄 src/LoginControl.js

import React, { useState } from 'react';

import GuestPage from './GuestPage';

import UserPage from './UserPage';

function LoginControl() {

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

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

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

let page;

let button;

if (isLoggedIn) {

page = <UserPage />;

button = <button onClick={handleLogoutClick}>Logout</button>;

} else {

page = <GuestPage />;

button = <button onClick={handleLoginClick}>Login</button>;

}

return (

<div>

<h1>✈️ Ticket Booking App</h1>

{button}

<hr />

{page}

</div>

);

}

export default LoginControl;

**6. Modify App.js**

📄 src/App.js

import React from 'react';

import './App.css';

import LoginControl from './LoginControl';

function App() {

return (

<div className="App">

<LoginControl />

</div>

);

}

export default App;

**7. Run the App**

In the terminal, run:

npm start

Visit http://localhost:3000 and you’ll see:







