**Lab Objectives Covered**

| **Concept** | **Example in Lab** |
| --- | --- |
| **Conditional Rendering** | Show user or guest view based on login state |
| **Element Variables** | Use variables to store JSX elements for rendering |
| **Prevent Rendering** | Return null from a component to avoid rendering |

**Prerequisites**

Ensure installed:

* Node.js
* npm
* Visual Studio Code

**1. Set Up React App**

npx create-react-app ticketbookingapp

cd ticketbookingapp

npm start

**2. Create Components**

**UserPage.js**

import React from 'react';

const UserPage = () => {

return (

<div>

<h2>Welcome, User!</h2>

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

<button>Book Now</button>

</div>

);

};

export default UserPage;

**GuestPage.js**

import React from 'react';

const GuestPage = () => {

return (

<div>

<h2>Welcome, Guest!</h2>

<p>Browse available flight routes and schedules. Login to book tickets.</p>

</div>

);

};

export default GuestPage;

**3. App.js**

import React, { Component } from 'react';

import GuestPage from './components/GuestPage';

import UserPage from './components/UserPage';

class App extends Component {

constructor(props) {

super(props);

this.state = {

isLoggedIn: false,

};

}

loginHandler = () => {

this.setState({ isLoggedIn: true });

};

logoutHandler = () => {

this.setState({ isLoggedIn: false });

};

render() {

let page; // Element variable for conditional rendering

if (this.state.isLoggedIn) {

page = <UserPage />;

} else {

page = <GuestPage />;

}

return (

<div style={{ padding: '30px' }}>

<h1>Ticket Booking App</h1>

{this.state.isLoggedIn ? (

<button onClick={this.logoutHandler}>Logout</button>

) : (

<button onClick={this.loginHandler}>Login</button>

)}

<hr />

{page}

</div>

);

}

}

export default App;

