**12. ReactJS-HOL**

**Objectives**

* **Explain about conditional rendering in React**

Conditional rendering in React means showing different UI components based on certain conditions, like user login status, data availability, or button clicks.

* **Define element variables**

Element variables in React are used to store JSX elements in a variable. These variables can then be used to conditionally render elements inside the render() method or return statement.

* **Explain how to prevent components from rendering**

To prevent a component from rendering in React, you can return null from the component function. This tells React to skip rendering that component in the output DOM.

**Creating a React Application named “ticketbookingapp” where the guest user can browse the page where the flight details are displayed whereas the logged in user only can book tickets.**

**The Login and Logout buttons should accordingly display different pages. Once the user is logged in the User page should be displayed. When the user clicks on Logout, the Guest page should be displayed**

1. **Create the Project**

npx create-react-app ticketbookingapp

cd ticketbookingapp

mkdir src/components

1. **App.js**

import React, { useState } from "react";

import GuestPage from "./components/GuestPage";

import UserPage from "./components/UserPage";

import "./App.css";

function App() {

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

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

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

return (

<div className="App">

<header>

<h1>Flight Ticket Booking App</h1>

{isLoggedIn ? (

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

) : (

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

)}

</header>

<main>

{isLoggedIn ? <UserPage /> : <GuestPage />}

</main>

</div>

);

}

export default App;

1. **GuestPage.js**

import React from "react";

import FlightList from "./FlightList";

function GuestPage() {

return (

<div>

<h2>Welcome, Guest!</h2>

<p>You can only browse the available flights.</p>

<FlightList />

</div>

);

}

export default GuestPage;

1. **UserPage.js**

import React from "react";

import FlightList from "./FlightList";

function UserPage() {

const bookFlight = (flight) => {

alert(`Booking confirmed for: ${flight}`);

};

return (

<div>

<h2>Welcome, Logged-in User!</h2>

<p>You can browse and book flights.</p>

<FlightList onBook={bookFlight} />

</div>

);

}

export default UserPage;

1. **FlightList.js**

import React from "react";

const flights = [

{ id: 1, name: "Flight A - New York to London" },

{ id: 2, name: "Flight B - Delhi to Dubai" },

{ id: 3, name: "Flight C - Tokyo to Paris" },

];

function FlightList({ onBook }) {

return (

<div>

<ul>

{flights.map((flight) => (

<li key={flight.id}>

{flight.name}

{onBook && (

<button onClick={() => onBook(flight.name)}>Book</button>

)}

</li>

))}

</ul>

</div>

);

}

export default FlightList;

1. **Run the project**

**Npm start**

<http://localhost:3000/>





