**12.ReactJs\_hol**

**1.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.

**2. 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.

**3. 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.

**Lab:**

Create 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.

GuestPage.js:

import React from 'react';

function GuestPage() {

return (

<div style={{ padding: '20px' }}>

<h2>Welcome Guest</h2>

<p>Here are the available flights:</p>

<ul>

<li>Flight: Indigo | From: Delhi → To: Chennai | Time: 6:00 PM</li>

<li>Flight: Air India | From: Hyderabad → To: Mumbai | Time: 7:45 AM</li>

<li>Flight: Vistara | From: Bangalore → To: Delhi | Time: 9:00 AM</li>

</ul>

<p><em>Login to book your tickets.</em></p>

</div>

);

}

export default GuestPage;

UserPage.js:

import React from 'react';

function UserPage() {

return (

<div style={{ padding: '20px' }}>

<h2>Welcome, User!</h2>

<p>You can now book your flight tickets.</p>

<button style={{ padding: "8px 20px" }}>Book Tickets</button>

</div>

);

}

export default UserPage;

App.js:

import React, { useState } from 'react';

import GuestPage from './GuestPage';

import UserPage from './UserPage';

function App() {

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

const handleLogin = () => {

setIsLoggedIn(true);

}

const handleLogout = () => {

setIsLoggedIn(false);

}

let page;

if (isLoggedIn) {

page = <UserPage />;

} else {

page = <GuestPage />;

}

return (

<div style={{ textAlign: 'center' }}>

<h1>✈️ Ticket Booking App</h1>

<div style={{ marginBottom: "20px" }}>

{isLoggedIn ? (

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

) : (

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

)}

</div>

{/\* Conditional rendering using element variable \*/}

{page}

</div>

);

}

export default App;

Output:

