# Exercise: Conditional Rendering in React – Ticket Booking App

## 1. Objective

To implement conditional rendering in a React application where:  
- Guest users can only browse flight details.  
- Logged-in users can book tickets.  
- The interface updates dynamically between Guest and User views when logging in or out.

## 2. Problem Statement / Scenario

We need to create a React application named 'ticketbookingapp' with:  
- Guest Page: Displays available flights but no booking option.  
- User Page: Displays the same flights with a 'Book Now' button.  
- Login/Logout Button: Changes based on authentication state and switches between Guest and User pages.  
  
The goal is to demonstrate:  
- Conditional rendering using if statements and ternary operators.  
- Element variables to store JSX conditionally.  
- Preventing components from rendering by returning null.

## 3. Implementation

### Step 1: Create React Application

npx create-react-app ticketbookingapp  
cd ticketbookingapp  
npm start

### Step 2: App.js

import React, { useState } from "react";  
import GuestPage from "./GuestPage";  
import UserPage from "./UserPage";  
import "./App.css";  
  
function App() {  
 const [isLoggedIn, setIsLoggedIn] = useState(false);  
  
 let pageContent = isLoggedIn ? <UserPage /> : <GuestPage />;  
  
 return (  
 <div className="App">  
 <h1>✈ Ticket Booking App</h1>  
 {isLoggedIn ? (  
 <button onClick={() => setIsLoggedIn(false)}>Logout</button>  
 ) : (  
 <button onClick={() => setIsLoggedIn(true)}>Login</button>  
 )}  
 <hr />  
 {pageContent}  
 </div>  
 );  
}  
  
export default App;

### Step 3: GuestPage.js

import React from "react";  
  
export default function GuestPage() {  
 return (  
 <div>  
 <h2>Welcome Guest!</h2>  
 <p>You can browse available flights but must log in to book tickets.</p>  
 <ul>  
 <li>Flight A → Delhi to Mumbai – ₹4,500</li>  
 <li>Flight B → Bangalore to Chennai – ₹3,200</li>  
 <li>Flight C → Hyderabad to Goa – ₹2,800</li>  
 </ul>  
 </div>  
 );  
}

### Step 4: UserPage.js

import React from "react";  
  
export default function UserPage() {  
 return (  
 <div>  
 <h2>Welcome Back!</h2>  
 <p>Here are the available flights for booking:</p>  
 <ul>  
 <li>Flight A → Delhi to Mumbai – ₹4,500 <button>Book Now</button></li>  
 <li>Flight B → Bangalore to Chennai – ₹3,200 <button>Book Now</button></li>  
 <li>Flight C → Hyderabad to Goa – ₹2,800 <button>Book Now</button></li>  
 </ul>  
 </div>  
 );  
}

### Step 5: App.css

.App {  
 font-family: Arial, sans-serif;  
 padding: 20px;  
}  
  
button {  
 padding: 8px 12px;  
 margin: 5px;  
 cursor: pointer;  
 background: #007bff;  
 border: none;  
 color: white;  
 border-radius: 4px;  
}  
  
button:hover {  
 background: #0056b3;  
}

## 4. Output

Guest View (Before Login) – Displays flights without booking options and shows Login button.

User View (After Login) – Displays flights with 'Book Now' buttons and shows Logout button.

## 5. Conclusion

This exercise demonstrates conditional rendering in React using if statements, ternary operators, and element variables. It also shows how to prevent rendering for certain components based on conditions. This is a common approach in building authentication-based UIs where different users see different content.