**12. ReactJS-HOL[1]**

**src/index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App';

import './index.css';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App />);

**src/App.js**

import React, { useState } from 'react';

import GuestView from './components/GuestView';

import UserView from './components/UserView';

import './App.css';

function App() {

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

// element variable for header message/button

const authSection = isLoggedIn ? (

<div className="header">

<h1>Welcome back</h1>

<button onClick={() => setIsLoggedIn(false)}>Logout</button>

</div>

) : (

<div className="header">

<h1>Please sign up.</h1>

<button onClick={() => setIsLoggedIn(true)}>Login</button>

</div>

);

return (

<div className="app-container">

{authSection}

{/\* conditional rendering via guard \*/}

{isLoggedIn ? <UserView /> : <GuestView />}

</div>

);

}

export default App;

**src/components/GuestView.js**

import React from 'react';

import FlightList from './FlightList';

export default function GuestView() {

return (

<div className="view-container">

<h2>Available Flights</h2>

<p>You can browse flights. Please login to book tickets.</p>

<FlightList />

</div>

);

}

**src/components/UserView.js**

import React, { useState } from 'react';

import FlightList from './FlightList';

import BookingForm from './BookingForm';

export default function UserView() {

const [selectedFlight, setSelectedFlight] = useState(null);

const [bookings, setBookings] = useState([]);

function handleSelect(flight) {

setSelectedFlight(flight);

}

function handleBook(bookingInfo) {

setBookings(prev => [...prev, bookingInfo]);

alert(`Booked ${bookingInfo.seats} seat(s) on ${bookingInfo.flight.name}`);

setSelectedFlight(null);

}

return (

<div className="view-container">

<h2>Book Your Flight</h2>

<div className="flex-row">

<div style={{ flex: 1, marginRight: 20 }}>

<FlightList onSelect={handleSelect} selectedFlight={selectedFlight} />

</div>

<div style={{ flex: 1 }}>

{/\* guard: show form only if a flight is selected \*/}

{selectedFlight ? (

<BookingForm flight={selectedFlight} onBook={handleBook} />

) : (

<p>Select a flight to book.</p>

)}

</div>

</div>

{bookings.length > 0 && (

<div className="past-bookings">

<h3>Your Bookings</h3>

<ul>

{bookings.map((b, idx) => (

<li key={idx}>

{b.seats} seat(s) on <strong>{b.flight.name}</strong> ({b.flight.origin} → {b.flight.destination})

</li>

))}

</ul>

</div>

)}

</div>

);

}

**FlightList.js**

import React from 'react';

import FlightItem from './FlightItem';

// static sample flights

const FLIGHTS = [

{ id: 'F100', name: 'AirExpress 101', origin: 'Chennai', destination: 'Bengaluru', time: '08:00 AM' },

{ id: 'F200', name: 'SkyHigh 202', origin: 'Mumbai', destination: 'Delhi', time: '11:30 AM' },

{ id: 'F300', name: 'CloudJet 303', origin: 'Hyderabad', destination: 'Kolkata', time: '05:15 PM' },

];

export default function FlightList({ onSelect, selectedFlight }) {

return (

<div>

{FLIGHTS.map(f => (

<FlightItem

key={f.id}

flight={f}

onSelect={onSelect}

isSelected={selectedFlight?.id === f.id}

showSelect={!!onSelect}

/>

))}

</div>

);

}

**FlightItem.js**

import React from 'react';

export default function FlightItem({ flight, onSelect, isSelected, showSelect }) {

return (

<div

style={{

border: isSelected ? '2px solid #1f7f1a' : '1px solid #ccc',

padding: 10,

marginBottom: 10,

borderRadius: 4,

position: 'relative',

}}

>

<div style={{ fontWeight: 600, fontSize: 16 }}>{flight.name}</div>

<div>

{flight.origin} → {flight.destination}

</div>

<div>{flight.time}</div>

{showSelect && (

<button

onClick={() => onSelect && onSelect(flight)}

style={{ marginTop: 6 }}

>

{isSelected ? 'Selected' : 'Select'}

</button>

)}

</div>

);

}

**BookingForm.js**

import React, { useState } from 'react';

export default function BookingForm({ flight, onBook }) {

const [seats, setSeats] = useState(1);

function handleSubmit(e) {

e.preventDefault();

if (seats < 1) return;

onBook({ flight, seats });

}

return (

<div style={{ border: '1px solid #888', padding: 12, borderRadius: 4 }}>

<h3>Booking for: {flight.name}</h3>

<p>

{flight.origin} → {flight.destination} at {flight.time}

</p>

<form onSubmit={handleSubmit}>

<label>

Seats:{' '}

<input

type="number"

min="1"

value={seats}

onChange={e => setSeats(Number(e.target.value))}

style={{ width: 60 }}

/>

</label>

<div style={{ marginTop: 10 }}>

<button type="submit">Confirm Booking</button>

</div>

</form>

</div>

);

}

OUTPUT; A screenshot of a computer

AI-generated content may be incorrect.

 