

Case Study 3: Movie Ticket Booking

App.js (Parent Component)

```
import React, { useState } from "react";
import SeatSelector from "../components/SeatSelector";
import Summary from "../components/Summary";
function App() {
  // State
  const [selectedSeats, setSelectedSeats] = useState([]);
  const [confirmed, setConfirmed] = useState(false);

  const movie = {
    title: "Avengers: Endgame",
    timing: "7:30 PM",
    price: 150
  };

  // Handler for selecting seats
  const toggleSeat = (seat) => {
    if (selectedSeats.includes(seat)) {
      setSelectedSeats(selectedSeats.filter((s) => s !== seat));
    } else {
      setSelectedSeats([...selectedSeats, seat]);
    }
  };

  // Booking confirmation
```

```

const confirmBooking = () => {
  setConfirmed(true);
};

return (
  <div style={{ padding: "20px" }}>
    <h1> Movie Ticket Booking</h1>
    <h2>{movie.title} - {movie.timing}</h2>

    {/* Child Components */}
    <SeatSelector selectedSeats={selectedSeats} toggleSeat={toggleSeat} />
    <Summary
      selectedSeats={selectedSeats}
      price={movie.price}
      confirmed={confirmed}
      confirmBooking={confirmBooking}
    />
  </div>
);
}

```

```
export default App;
```

SeatSelector.js (Child Component)

```

import React from "react";

const seats = ["A1", "A2", "A3", "A4", "B1", "B2"];

function SeatSelector({ selectedSeats, toggleSeat }) {

```

```

return (
  <div>
    <h3>Select Seats:</h3>
    {seats.map((seat) => (
      <button
        key={seat}
        onClick={() => toggleSeat(seat)}
        style={{
          margin: "5px",
          padding: "10px",
          backgroundColor: selectedSeats.includes(seat) ? "green" : "lightgray",
          color: "white",
          border: "none",
          borderRadius: "5px",
          cursor: "pointer"
        }}
      >
        {seat}
      </button>
    ))}
  </div>
);
}

```

```
export default SeatSelector;
```

Summary.js (Child Component)

```

import React from "react";

function Summary({ selectedSeats, price, confirmed, confirmBooking }) {
  const total = selectedSeats.length * price;

  return (
    <div style={{ marginTop: "20px" }}>
      <h3>Booking Summary:</h3>
      <p>Selected Seats: {selectedSeats.join(", ") || "None"}</p>
      <p>Total Tickets: {selectedSeats.length}</p>
      <p>Total Cost: ₹{total}</p>

      {confirmed ? (
        <h2 style={{ color: "green" }}>Booking Confirmed!</h2>
      ) : (
        <button
          onClick={confirmBooking}
          disabled={selectedSeats.length === 0}
          style={{
            padding: "10px 20px",
            backgroundColor: "blue",
            color: "white",
            border: "none",
            borderRadius: "5px",
            cursor: "pointer"
          }}
        >
          Confirm Booking

```

```
</button>
```

```
}}
```

```
</div>
```

```
);
```

```
}
```

```
export default Summary;
```