```
CaseStudy1:
Online Food Ordering System
App.js:
import logo from './logo.svg';
import './App.css';
import FoodApp from './components/FoodApp/FoodApp';
import ELearning from './components/ELearning/ELearning';
import FitnessTracker from './components/FitnessTracker/FitnessTracker';
import HotelBooking from './components/HotelBooking/HotelBooking';
import MovieBooking from './components/MovieBooking/MovieBooking';
function App() {
 return (
  <div className="App">
   {/* <FoodApp/> */}
   {/* <ELearning/> */}
   {/* <FitnessTracker/> */}
   {/* <HotelBooking/> */}
   <MovieBooking/>
  </div>
);
}
export default App;
FoodApp.js:
import React, { useState } from "react";
import "./FoodApp.css";
const FoodCard = ({ item, addToCart }) => (
```

```
<div className="food-card">
  <h3>{item.name}</h3>
  {item.description}
  Price: ₹{item.price}
  <button onClick={() => addToCart(item)}>Add to Cart</button>
 </div>
);
const Cart = ({ cart }) => {
 const total = cart.reduce((sum, item) => sum + item.price * item.quantity, 0);
 return (
  <div className="cart">
   <h2> Second Cart</h2>
   {cart.map((c, i) => (
    p key={i}>
     {c.name} x {c.quantity} = ₹{c.price * c.quantity}
    ))}
   <h3>Total: ₹{total}</h3>
  </div>
);
};
const FoodApp = () => {
 const foods = [
  { name: "Pizza", description: "Cheese & tomato", price: 200 },
  { name: "Burger", description: "Veg loaded", price: 150 },
  { name: "Pasta", description: "Creamy white sauce", price: 180 }
```

```
];
const [cart, setCart] = useState([]);
const addToCart = (food) => {
 setCart((prev) => {
  const exists = prev.find((item) => item.name === food.name);
  if (exists) {
   return prev.map((item) =>
    item.name === food.name ? { ...item, quantity: item.quantity + 1 } : item
   );
  } else {
   return [...prev, { ...food, quantity: 1 }];
  }
 });
};
return (
 <div className="food-app">
  <h1 className="food-title">Online Food Ordering</h1>
  <div className="food-list">
   \{foods.map((f, i) => (
    <FoodCard key={i} item={f} addToCart={addToCart} />
   ))}
  </div>
  <Cart cart={cart} />
 </div>
);
```

```
};
export default FoodApp;
FoodApp.css:
.food-app {
 font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
 text-align: center;
 padding: 20px;
 background-color: #fafafa;
 min-height: 100vh;
}
.food-title {
 font-size: 2rem;
 color: #333;
 margin-bottom: 20px;
}
.food-list {
 display: flex;
 justify-content: center;
 gap: 20px;
 flex-wrap: wrap;
}
.food-card {
 background: white;
```

```
border: 1px solid #ddd;
 border-radius: 10px;
 padding: 15px;
 width: 200px;
 transition: transform 0.2s ease, box-shadow 0.2s ease;
 box-shadow: 0 2px 6px rgba(0, 0, 0, 0.1);
}
.food-card:hover {
transform: translateY(-5px);
 box-shadow: 0 5px 15px rgba(0, 0, 0, 0.2);
}
.food-card h3 {
 color: #222;
 margin: 10px 0;
}
.food-card p {
 color: #555;
font-size: 14px;
}
.food-card button {
 margin-top: 10px;
 padding: 8px 12px;
 background: #ff9800;
 color: white;
```

```
border: none;
 border-radius: 5px;
cursor: pointer;
}
.food-card button:hover {
background: #e68900;
}
.cart {
 margin-top: 30px;
 padding: 20px;
 background: #fff8e1;
 border: 1px solid #ffecb3;
 border-radius: 10px;
 display: inline-block;
text-align: left;
}
.cart h2 {
 margin-bottom: 15px;
color: #333;
}
.cart p {
 margin: 5px 0;
font-size: 15px;
}
```

```
.cart h3 {
 margin-top: 10px;
 color: #d84315;
}
CaseStudy2:
E-Learning Platform:
ELearning.js:
import React, { useState } from "react";
import "./ELearning.css";
const CourseCard = ({ course, enrollCourse }) => (
 <div className="course-card">
  <h3>{course.title}</h3>
  Author: {course.author}
  Duration: {course.duration}
  <button onClick={() => enrollCourse(course)}>
   {course.enrolled? "Already Enrolled": "Enroll"}
  </button>
  {course.enrolled && (
   <div className="progress-bar">
    <div
     className="progress-bar-fill"
     style={{ width: `${course.progress}%` }}
    ></div>
   </div>
  )}
```

```
</div>
);
const ELearning = () => {
 const [courses, setCourses] = useState([
  { title: "React Basics", author: "John Doe", duration: "3h", enrolled: false, progress: 0 },
  { title: "Node.js", author: "Jane Smith", duration: "4h", enrolled: false, progress: 0 },
  { title: "MongoDB", author: "Sam Lee", duration: "2h", enrolled: false, progress: 0 }
 ]);
 const enrollCourse = (course) => {
  setCourses((prev) =>
   prev.map((c) =>
    c.title === course.title ? { ...c, enrolled: true, progress: 40 } : c
   )
  );
 };
 return (
  <div className="elearning-app">
   <h1 className="elearning-title"> E-Learning Platform</h1>
   <div className="course-list">
    \{courses.map((c, i) => (
     <CourseCard key={i} course={c} enrollCourse={enrollCourse} />
    ))}
   </div>
  </div>
 );
```

```
};
export default ELearning;
ELearning.css:
.elearning-app {
font-family: Arial, sans-serif;
 text-align: center;
 padding: 20px;
 background: #f4f8ff;
 min-height: 100vh;
}
.elearning-title {
font-size: 2rem;
 margin-bottom: 20px;
 color: #2b3a67;
}
.course-list {
 display: flex;
justify-content: center;
 gap: 20px;
 flex-wrap: wrap;
}
.course-card {
 background: white;
 border-radius: 10px;
```

```
border: 1px solid #ccc;
 padding: 15px;
 width: 220px;
 text-align: left;
 transition: transform 0.2s ease;
box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
}
.course-card:hover {
transform: translateY(-5px);
}
.course-card h3 {
 color: #2b3a67;
}
.course-card p {
font-size: 14px;
 color: #555;
}
.course-card button {
 margin-top: 10px;
 padding: 8px 12px;
 background: #1976d2;
 color: white;
 border: none;
 border-radius: 6px;
```

```
cursor: pointer;
}
.course-card button:hover {
 background: #145ca1;
}
.progress-bar {
height: 10px;
 background: #e0e0e0;
 border-radius: 5px;
 margin-top: 10px;
 overflow: hidden;
}
.progress-bar-fill {
 height: 100%;
 background: #4caf50;
 width: 0%;
 transition: width 0.3s ease;
}
Case-Study3:
Movie-Tickets Booking
MovieBooking.js:
import React, { useState } from "react";
import "./MovieBooking.css";
```

```
const Seat = ({ seat, toggleSeat }) => (
 <div
  className={`seat ${seat.selected ? "selected" : ""}`}
  onClick={() => toggleSeat(seat.id)}
  {seat.id}
 </div>
);
const MovieBooking = () => {
 const [seats, setSeats] = useState(
  Array.from({ length: 24 }, (_, i) => ({ id: i + 1, selected: false }))
 );
 const [confirmed, setConfirmed] = useState(false);
 const toggleSeat = (id) => {
  setSeats((prev) =>
   prev.map((s) => (s.id === id ? { ...s, selected: !s.selected } : s))
  );
 };
 const selectedSeats = seats.filter((s) => s.selected);
 const total = selectedSeats.length * 120;
 return (
  <div className="movie-app">
   <h1 className="movie-title"> Movie Ticket Booking</h1>
   <div className="seat-grid">
```

```
\{seats.map((s) => (
     <Seat key={s.id} seat={s} toggleSeat={toggleSeat} />
    ))}
   </div>
   <div className="summary">
    Selected Seats: {selectedSeats.map((s) => s.id).join(", ") || "None"}
    Total: ₹{total}
    <button className="confirm-btn" onClick={() => setConfirmed(true)}>
     Confirm Booking
    </button>
    {confirmed &&  Booking Confirmed!}
   </div>
  </div>
);
};
export default MovieBooking;
MovieBooking.css:
.movie-app {
 font-family: "Segoe UI", sans-serif;
 padding: 20px;
 text-align: center;
 background: #fff3f3;
 min-height: 100vh;
}
.movie-title {
 font-size: 2rem;
```

```
margin-bottom: 20px;
 color: #c62828;
}
.seat-grid {
 display: grid;
 grid-template-columns: repeat(8, 40px);
 gap: 10px;
justify-content: center;
 margin: 20px auto;
}
.seat {
width: 40px;
 height: 40px;
 border-radius: 6px;
 border: 1px solid #aaa;
 background: #fff;
 cursor: pointer;
transition: background 0.3s ease;
}
.seat:hover {
background: #ffe0e0;
}
.seat.selected {
 background: #ef5350;
```

```
color: white;
}
.summary {
 margin-top: 20px;
 padding: 15px;
 border: 1px solid #ddd;
 background: #fff;
 border-radius: 8px;
 display: inline-block;
}
.confirm-btn {
 margin-top: 10px;
 padding: 8px 15px;
 background: #c62828;
 color: white;
 border: none;
 border-radius: 6px;
 cursor: pointer;
}
.confirm-btn:hover {
 background: #a31515;
}
CaseStudy4:
Fitness Tracker
FitnessApp.js:
```

```
import React, { useState } from "react";
import "./FitnessApp.css";
export default function FitnessApp() {
 const [steps, setSteps] = useState(0);
 const [calories, setCalories] = useState(0);
 const [water, setWater] = useState(0);
 return (
  <div className="fitness-container">
   <h1>Fitness Tracker</h1>
   <div className="tracker-box">
    <h3>Steps: {steps}</h3>
    <button onClick={() => setSteps(steps + 500)}>+500 Steps</button>
   </div>
   <div className="tracker-box">
    <h3>Calories Burned: {calories}</h3>
    <button onClick={() => setCalories(calories + 50)}>+50 Calories</button>
   </div>
   <div className="tracker-box">
    <h3>Water: {water} glasses</h3>
    <button onClick={() => setWater(water + 1)}>+1 Glass</button>
   </div>
   <div className="summary">
```

```
<h2>Summary</h2>
    Steps: {steps}
    Calories: {calories}
    Water: {water} glasses
   </div>
  </div>
);
}
FitnessApp.css:
.fitness-container {
 text-align: center;
 padding: 20px;
}
.tracker-box {
 margin: 15px;
 padding: 10px;
 border: 1px solid #888;
 border-radius: 8px;
 display: inline-block;
}
.tracker-box button {
 margin-top: 8px;
 padding: 6px 12px;
 background: #007bff;
 color: white;
 border: none;
```

```
border-radius: 5px;
 cursor: pointer;
}
.summary {
 margin-top: 20px;
 padding: 15px;
 border: 2px solid black;
}
CaseStudy5:
Hotel Room Booking
HotelApp.js:
import React, { useState } from "react";
import "./HotelApp.css";
export default function HotelApp() {
 const rooms = [
  { id: 1, type: "Deluxe", price: 2000 },
  { id: 2, type: "Suite", price: 5000 },
  { id: 3, type: "Standard", price: 1500 }
 ];
 const [selected, setSelected] = useState(null);
 const [dates, setDates] = useState({ checkIn: "", checkOut: "" });
 const nights =
  dates.checkIn && dates.checkOut
   ? (new Date(dates.checkOut) - new Date(dates.checkIn)) /
```

```
(1000 * 60 * 60 * 24)
  : 0;
const total = selected ? nights * selected.price : 0;
return (
 <div className="hotel-container">
  <h1>Hotel Reservation</h1>
  <div className="date-picker">
   <label>
    Check-in:
    <input
     type="date"
     onChange={(e) => setDates({ ...dates, checkIn: e.target.value })}
    />
   </label>
   <label>
    Check-out:
    <input
     type="date"
     onChange={(e) => setDates({ ...dates, checkOut: e.target.value })}
    />
   </label>
  </div>
  <h2>Available Rooms</h2>
  <div className="room-list">
```

```
{rooms.map((room) => (
    <div
    key={room.id}
    className={`room-card ${selected?.id === room.id ? "selected" : ""}`}
    onClick={() => setSelected(room)}
     <h3>{room.type}</h3>
    ₹{room.price} / night
    </div>
   ))}
  </div>
  <div className="summary">
   <h2>Booking Summary</h2>
   {selected && nights > 0 ? (
    <>
    Room: {selected.type}
    Check-in: {dates.checkIn}
    Check-out: {dates.checkOut}
    Total: ₹{total}
    </>
   ):(
    Please select room & dates
  )}
  </div>
 </div>
);
```

}

```
HotelApp.css:
.hotel-container {
 padding: 20px;
text-align: center;
}
.date-picker {
margin: 10px 0;
}
.room-list {
 display: flex;
justify-content: center;
 gap: 15px;
margin: 15px 0;
}
.room-card {
border: 1px solid #888;
 padding: 15px;
 border-radius: 8px;
 cursor: pointer;
 width: 150px;
}
.room-card.selected {
background: #ffeb3b;
}
```

```
.summary {
  margin-top: 20px;
  padding: 15px;
  border: 2px solid black;
}
```