

# Case Study 1: Online Food Ordering System

## App.js

```
import React, { useState } from "react";
import Header from "../components/Header";
import Menu from "../components/Menu";
import Cart from "../components/Cart";
function App() {
  const [cart, setCart] = useState([]);

  const addToCart = (food) => {
    setCart((prevCart) => {
      const existing = prevCart.find((item) => item.id === food.id);
      if (existing) {
        return prevCart.map((item) =>
          item.id === food.id ? { ...item, qty: item.qty + 1 } : item
        );
      }
      return [...prevCart, { ...food, qty: 1 }];
    });
  };

  return (
    <div>
      <Header />
```

```
    <Menu addToCart={addToCart} />
    <Cart cart={cart} />
  </div>
);
}
```

```
export default App;
```

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### **Header.js**

```
import React from "react";
function Header() {
  return (
    <header style={{ padding: "15px", background: "#007bff", color: "white" }}>
      <h1> Online Food Ordering</h1>
    </header>
  );
}
```

```
export default Header;
```

---

### **Menu.js**

```
import React from "react";
import FoodCard from "../FoodCard";
const foodItems = [
  { id: 1, name: "Pizza", price: 250, description: "Cheesy delicious pizza" },
  { id: 2, name: "Burger", price: 150, description: "Juicy grilled burger" },
```

```
{ id: 3, name: "Pasta", price: 200, description: "Italian pasta with sauce" },  
];
```

```
function Menu({ addToCart }) {  
  return (  
    <div style={{ display: "flex", gap: "20px", margin: "20px" }}>  
      {foodItems.map((item) => (  
        <FoodCard key={item.id} food={item} addToCart={addToCart} />  
      ))}  
    </div>  
  );  
}
```

```
export default Menu;
```

---

### FoodCard.js

```
import React from "react";  
  
function FoodCard({ food, addToCart }) {  
  return (  
    <div style={{ border: "1px solid gray", padding: "15px", borderRadius: "10px", width: "200px" }}>  
      <h3>{food.name}</h3>  
      <p>{food.description}</p>  
      <p>₹{food.price}</p>  
      <button onClick={() => addToCart(food)}>Add to Cart</button>  
    </div>
```

```
);  
}
```

```
export default FoodCard;
```

---

### Cart.js

```
import React from "react";  
  
function Cart({ cart }) {  
  const total = cart.reduce((sum, item) => sum + item.price * item.qty, 0);  
  
  return (  
    <div style={{ margin: "20px", padding: "15px", border: "1px solid black" }}>  
      <h2>🛒 Cart</h2>  
      {cart.length === 0 ? (  
        <p>Cart is empty</p>  
      ) : (  
        <ul>  
          {cart.map((item) => (  
            <li key={item.id}>  
              {item.name} x {item.qty} = ₹{item.price * item.qty}  
            </li>  
          ))}  
        </ul>  
      )}  
      <h3>Total: ₹{total}</h3>  
    </div>
```

```
);  
}
```

```
export default Cart;
```

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