

ShopSmart Full Stack Demo Code

```
/*
ShopSmart - Full Stack Demo (Single File Concept)
Includes:
- Login system
- Checkout screen
- Billing logic
- In-memory database
- Backend API (Node.js/Express style)
- React frontend
- Mobile-friendly UI

NOTE:
This is a conceptual single-file demo combining frontend + backend.
To run in real life, split into server.js + React app.
*/

// ===== BACKEND (Node + Express) =====

const express = require('express');
const app = express();
app.use(express.json());

// Fake database
let users = [{ username: "admin", password: "1234" }];
let products = [
  { id: 1, name: "Rice", price: 50 },
  { id: 2, name: "Milk", price: 30 },
  { id: 3, name: "Bread", price: 25 }
];

// Login API
app.post('/login', (req, res) => {
  const { username, password } = req.body;
  const user = users.find(u => u.username === username && u.password === password);
  res.json({ success: !!user });
});

// Products API
app.get('/products', (req, res) => {
  res.json(products);
});

// Checkout API
app.post('/checkout', (req, res) => {
  const cart = req.body.cart;
  let total = 0;

  cart.forEach(item => {
    const product = products.find(p => p.id === item.id);
    total += product.price * item.qty;
  });

  res.json({
    message: "Order placed successfully",
    total
  });
});

app.listen(3000, () => console.log("Server running on port 3000"));

// ===== FRONTEND (React UI) =====

/*
import React, { useState, useEffect } from 'react';
import axios from 'axios';

function App() {
  const [user, setUser] = useState(null);
  const [products, setProducts] = useState([]);
  const [cart, setCart] = useState([]);

  useEffect(() => {
```

```

    axios.get('/products').then(res => setProducts(res.data));
  }, []);

const login = async () => {
  const res = await axios.post('/login', {
    username: "admin",
    password: "1234"
  });
  if(res.data.success) setUser("admin");
};

const addToCart = (product) => {
  const existing = cart.find(i => i.id === product.id);
  if(existing) existing.qty++;
  else cart.push({ ...product, qty: 1 });
  setCart([...cart]);
};

const checkout = async () => {
  const res = await axios.post('/checkout', { cart });
  alert("Total Bill: ■" + res.data.total);
  setCart([]);
};

if(!user)
  return (
    <div className="mobile">
      <h2>Login</h2>
      <button onClick={login}>Login</button>
    </div>
  );

return (
  <div className="mobile">
    <h2>ShopSmart Store</h2>

    {products.map(p => (
      <div key={p.id}>
        {p.name} - ■{p.price}
        <button onClick={() => addToCart(p)}>Add</button>
      </div>
    ))}

    <h3>Cart</h3>
    {cart.map(c => (
      <div key={c.id}>
        {c.name} x {c.qty}
      </div>
    ))}

    <button onClick={checkout}>Checkout</button>
  </div>
);
}

export default App;
*/

// ===== MOBILE UI STYLE =====

/*
.mobile {
  max-width: 400px;
  margin: auto;
  padding: 20px;
  font-family: Arial;
}

button {
  margin: 5px;
  padding: 8px;
}
*/

```