# ShopSmart

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## 1. INTRODUCTION

ShopSmart is a full-stack e-commerce web application designed to provide users with a seamless online shopping experience. It includes functionalities for users, admins, and product management.

## 2. IDEATION PHASE

Problem Statement:
Traditional e-commerce websites often suffer from cluttered UI or lack role-based features. ShopSmart aims to provide a clean, intuitive shopping portal.

Empathy Map Canvas:
- Users: Shoppers, Admins
- Needs: Smooth shopping experience, easy checkout, admin control
- Pains: Slow navigation, cluttered pages
- Gains: Fast browsing, responsive UI, admin management tools

Brainstorming:
User flows: Landing -> Browse Products -> Cart -> Checkout / Admin Dashboard

## 3. REQUIREMENT ANALYSIS

Customer Journey Map:
1. Visit Landing Page
2. Browse or Search Products
3. Add to Cart
4. Checkout
5. Admin: Manage Products, View Orders

Solution Requirements:
Frontend: HTML, CSS, JS
Backend: Java (Spring Boot)
Database: MySQL
Authentication, Cart System, Product CRUD

Technology Stack:
HTML, CSS, JS, Spring Boot, MySQL


## 4. PROJECT DESIGN

Problem Solution Fit:
Role-based shopping system with easy cart and product management.

Proposed Solution:
Separate user and admin dashboards with full CRUD operations and modern UI.

Solution Architecture:
Frontend connects to backend APIs for dynamic product loading, cart updates, and admin functions.


## 5. PROJECT PLANNING & SCHEDULING

Week 1: Requirements & UI Planning
Week 2: Frontend Development
Week 3: Backend Setup & Integration
Week 4: Cart System & Admin Features
Week 5: UI Polishing
Week 6: Final Testing & Deployment


## 6. FUNCTIONAL AND PERFORMANCE TESTING
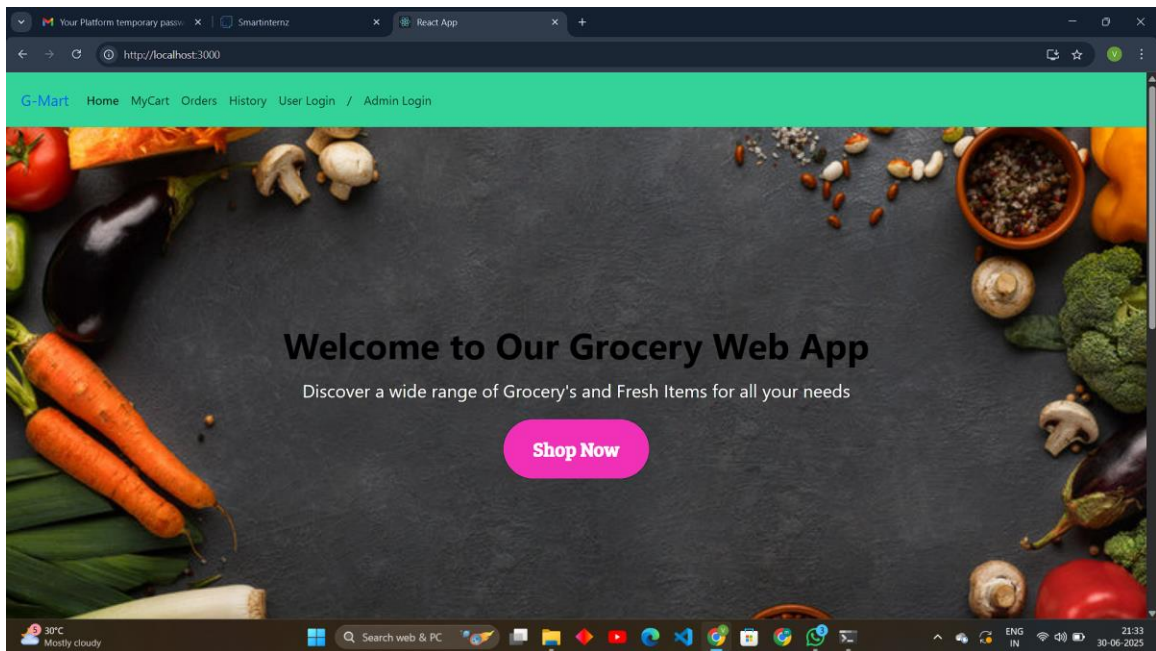
Load Testing with simulated users
Tested product CRUD, cart functions, and checkout
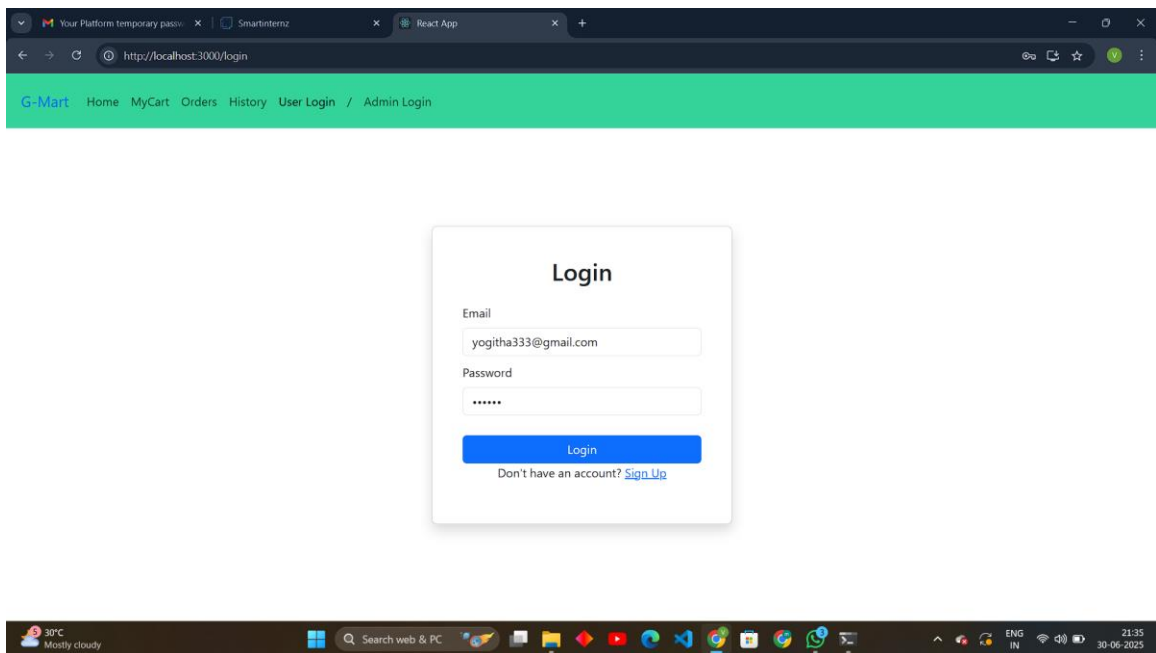Performance optimized for fast product rendering.


## 7. RESULTS
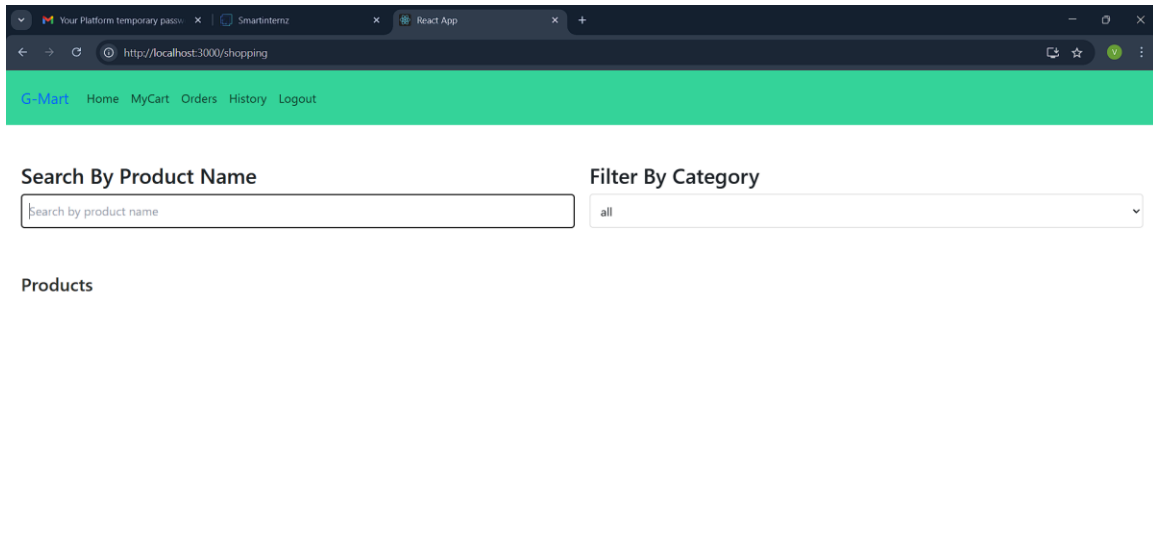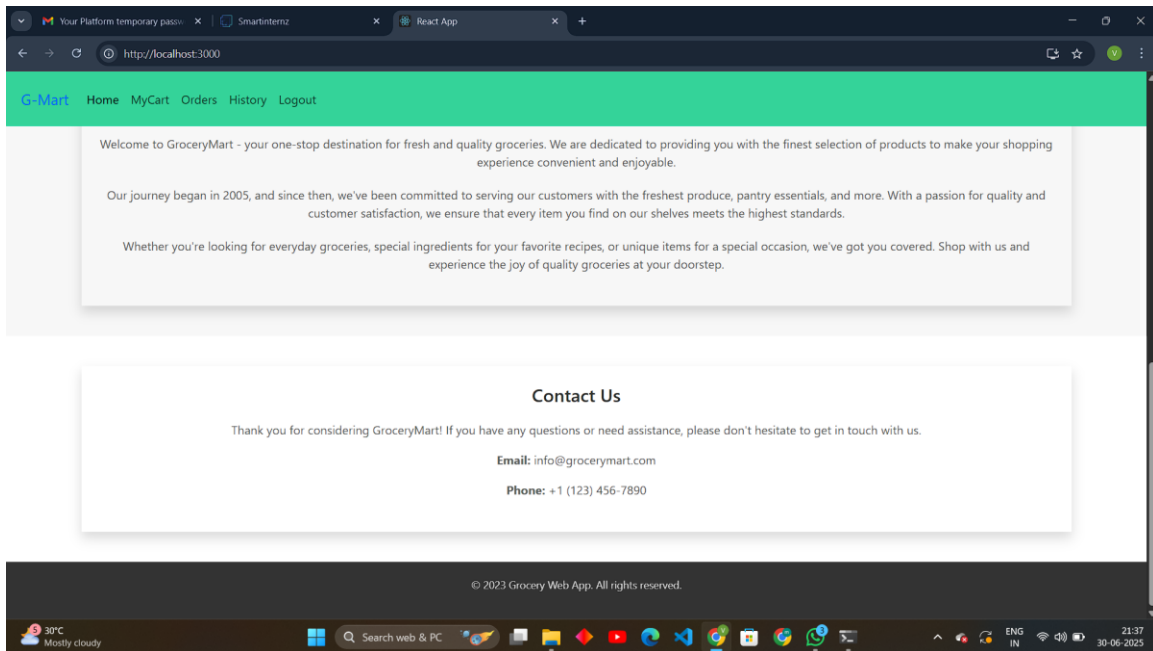
Screenshots:
- Landing Page

- Product Page



- Cart & Checkout

- Admin Dashboard



## 8. ADVANTAGES & DISADVANTAGES

Advantages:

- Clean UI
- Fast product browsing
- Admin product control

Disadvantages:

- No real-time inventory sync
- Lacks advanced analytics


## 9. CONCLUSION

ShopSmart is a scalable and intuitive e-commerce platform designed for smooth shopping and easy product management.


## 10. FUTURE SCOPE

- Real-time order tracking
- Mobile app version
- Payment gateway integration
- Product recommendations using ML


## 11. APPENDIX

Demo:   [https://github.com/yogi6633/smartbridgepro/blob/main/shopvideo.mp4]

GitHub:   [https://github.com/yogi6633/smartbridgepro]