SMART MART

Ardent Computech Computer Science & Technology

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END

INTRODUCTION

SMART MART is a modern e-commerce platform developed using the latest web technologies. The frontend is built with React.js for a smooth and dynamic user experience, while the backend runs on Express.js, ensuring fast and scalable server-side operations. We use MongoDB to efficiently manage user data, orders, and product information.

With SMART MART, customers can easily browse a wide range of products, place orders in just a few clicks, and have them delivered right to their doorstep - quickly, reliably, and hassle-free.

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OBJECTIVE

The objective of building this e-commerce website using the MERN stack (MongoDB, Express.js, React, Node.js) is to create a dynamic, user-friendly web application that allows users to purchase products. Key goals include :

1. **User authentication — secure sign up, sign in, and login.**
2. **Category & product browsing — users can choose product categories and view items.**
3. **Order system — users can add products to a cart and place orders.**
4. **Payment options — support Cash on Delivery and online payments.**
5. **Delivery — deliver ordered products to the user's location.**
6. **Real-time notifications — show success/failure notifications (e.g., order placed, payment success).**

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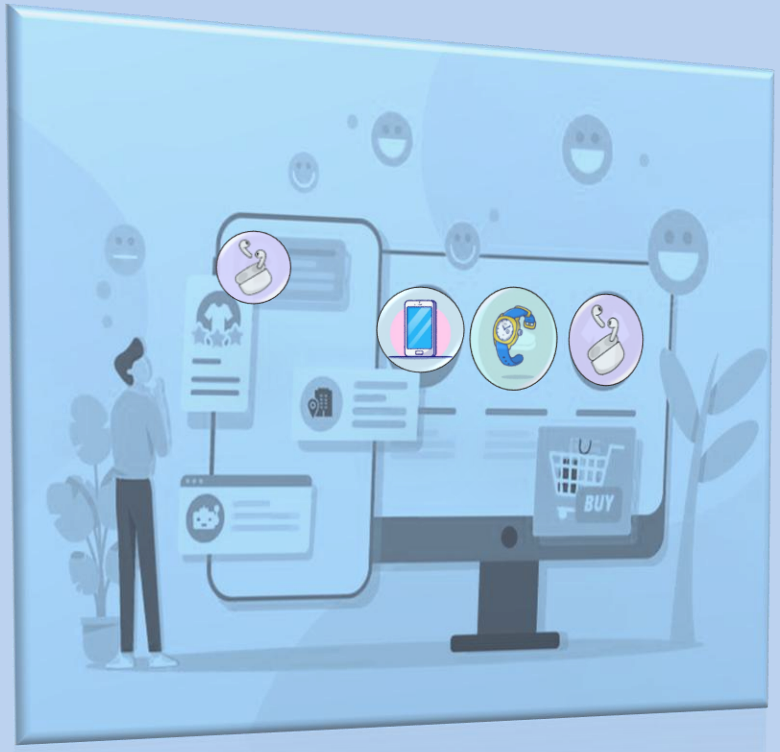
ADVANCED FEATURES



1. **AI-Based Product Recommendations –**

   Suggest products based on browsing and buying patterns.

2. **Smart Search with Filters –**

   Quick search with category, brand, price, and rating filters.

3. **One-Click Checkout –**

   Fast purchases using saved payment and delivery details.

4. **AR (Augmented Reality) Product Preview –**

   Let customers virtually try or view products before buying.

5. **Real-Time Order Tracking –**

   Allow customers to track their order's live status from dispatch to delivery.

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UNIQUE FEATURES

1.Live Video Shopping –

Stream product demos or events and let users buy instantly during the broadcast.

2. Customizable Products –

Allow users to personalize products with colors, texts, or features before buying.

3.AI-Powered Chatbot for Support –

Provide 24/7 instant customer help with smart answers and recommendations.

4. Wishlist & Price Drop Alerts –

Notify users when their saved items go on sale or are back in stock.

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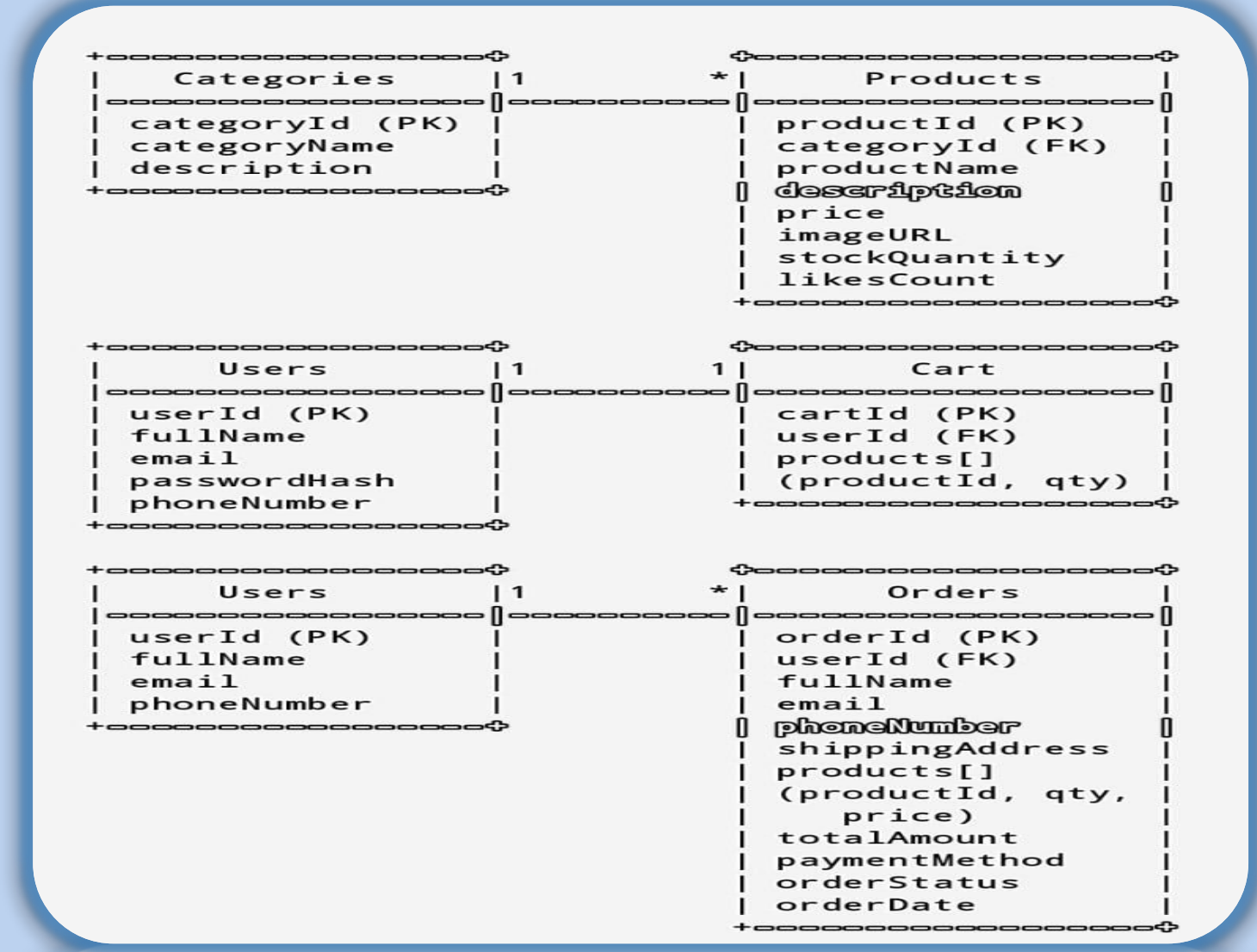
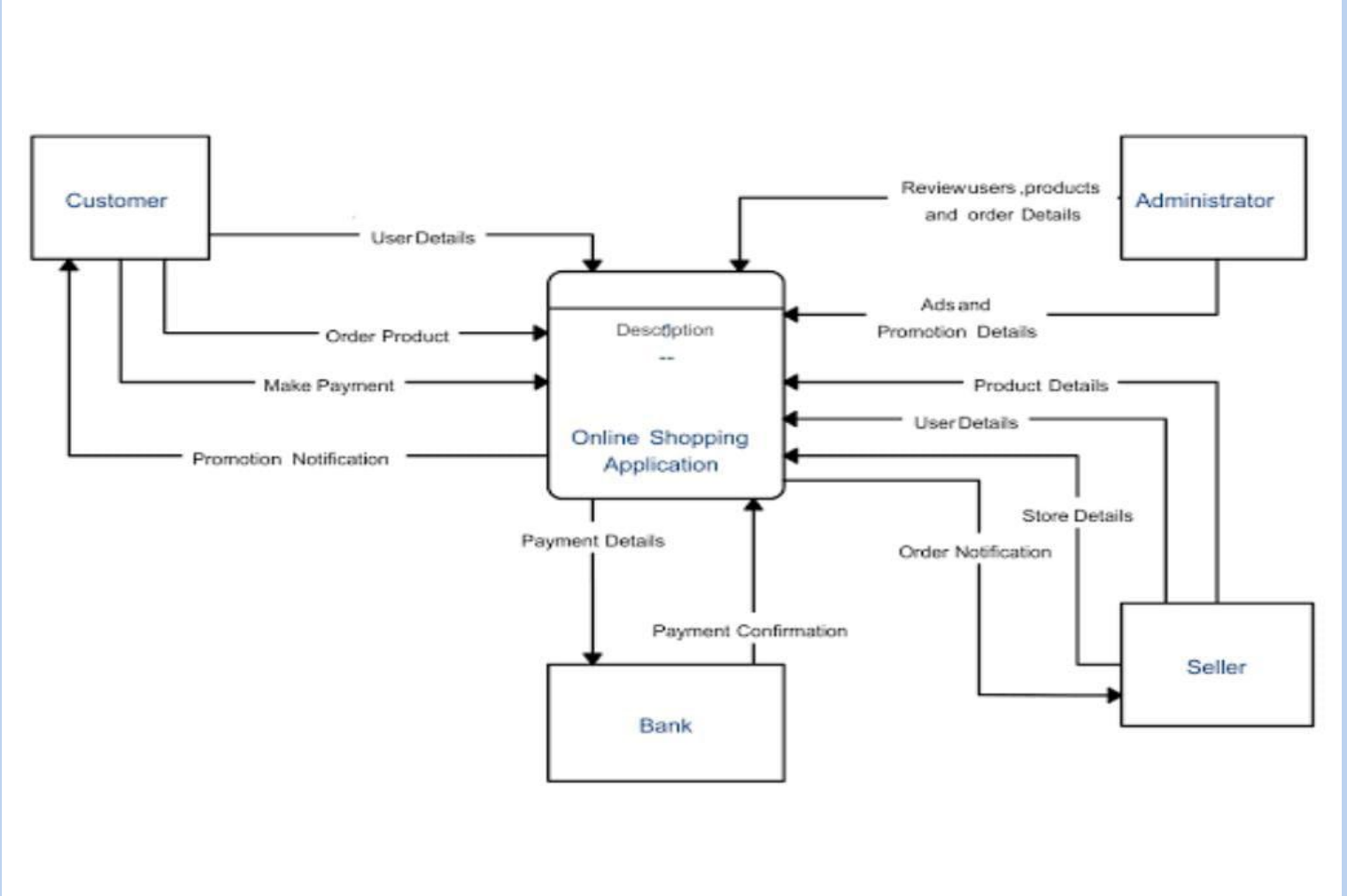
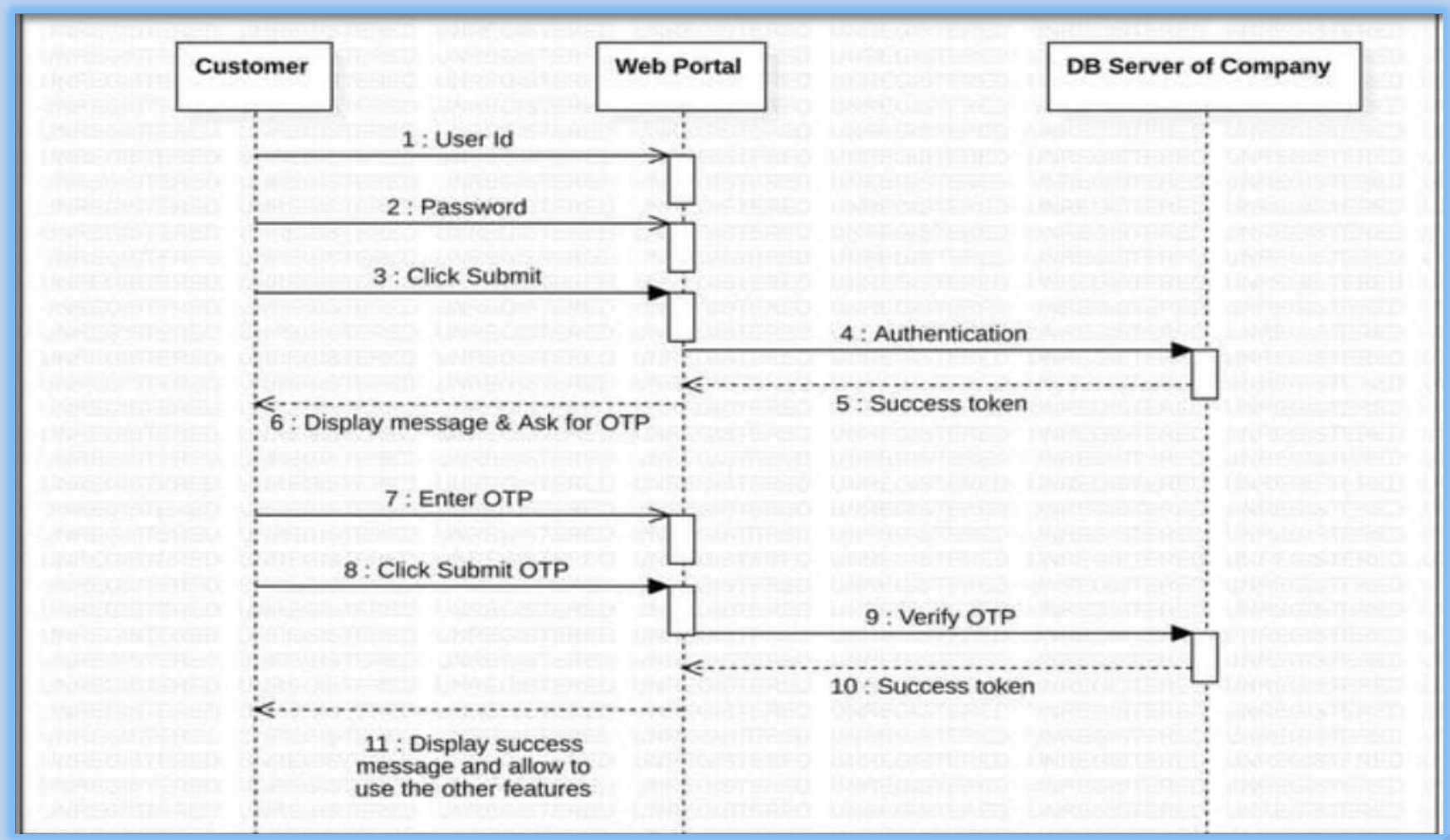
SCHEMA DIAGRAM



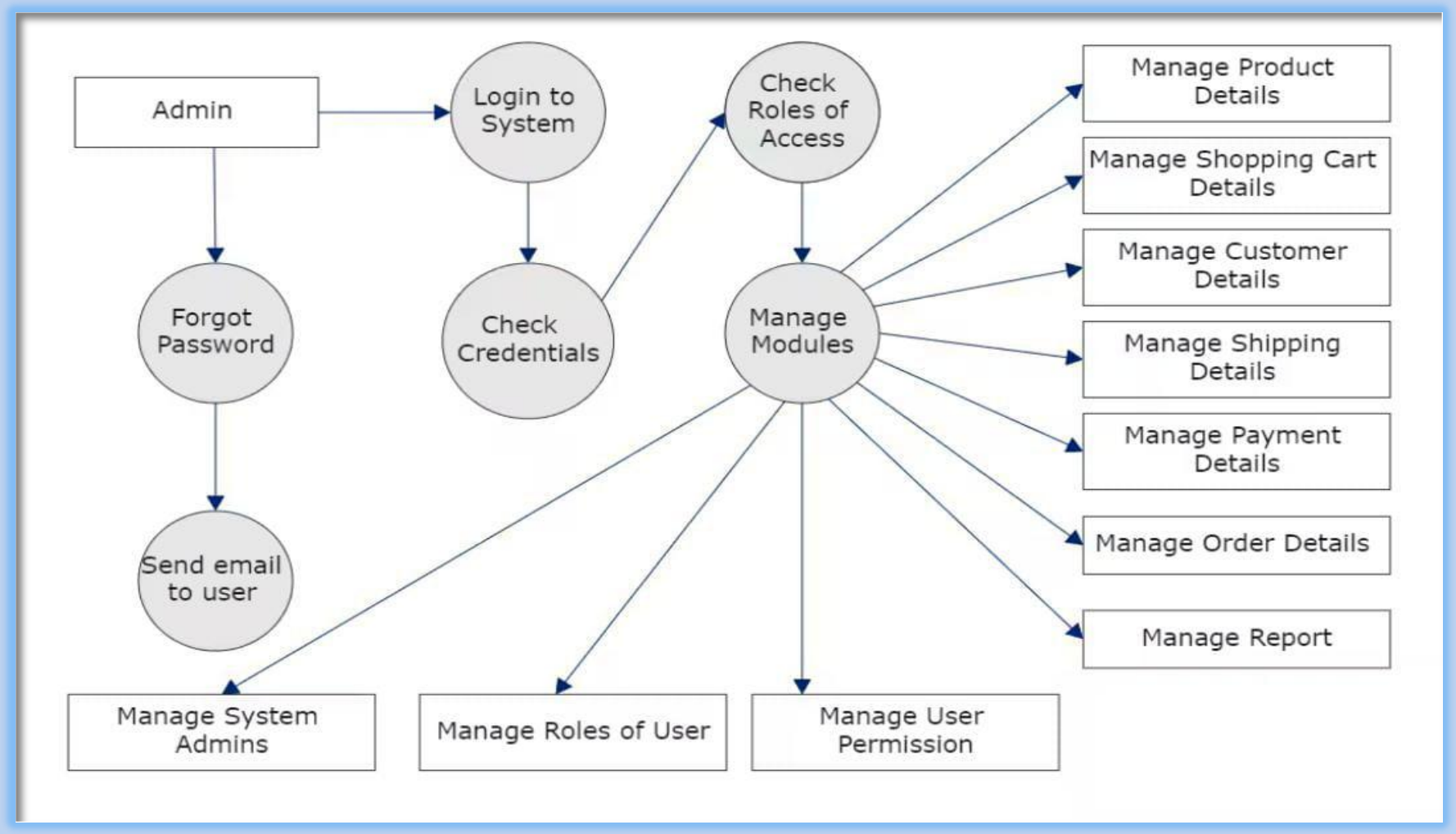
LEVEL 0 DFD STRUCTURE



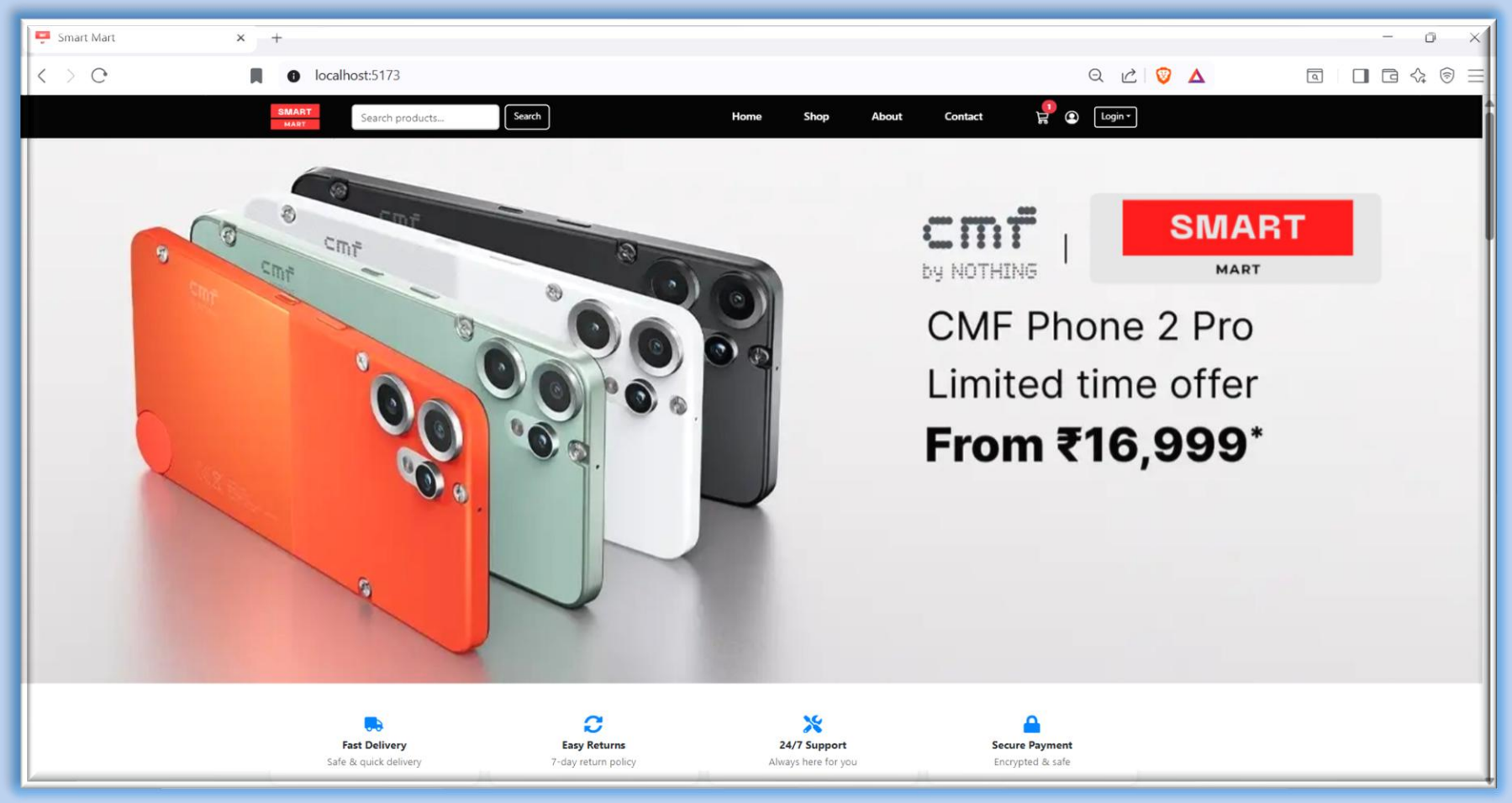
SEQUENCE DIAGRAM



USE CASE DIAGRAM



HOME PAGE



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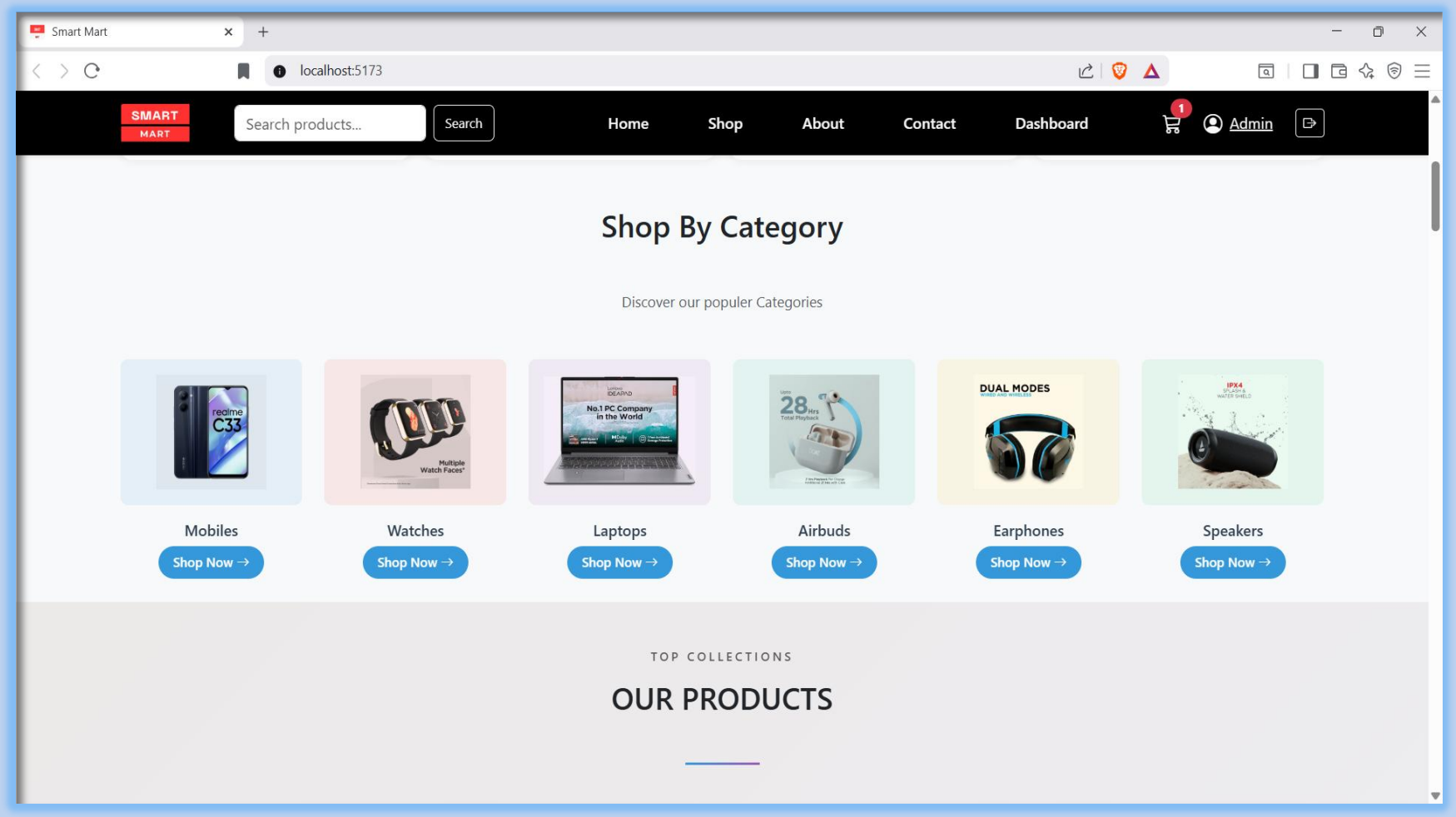
CATEGORY



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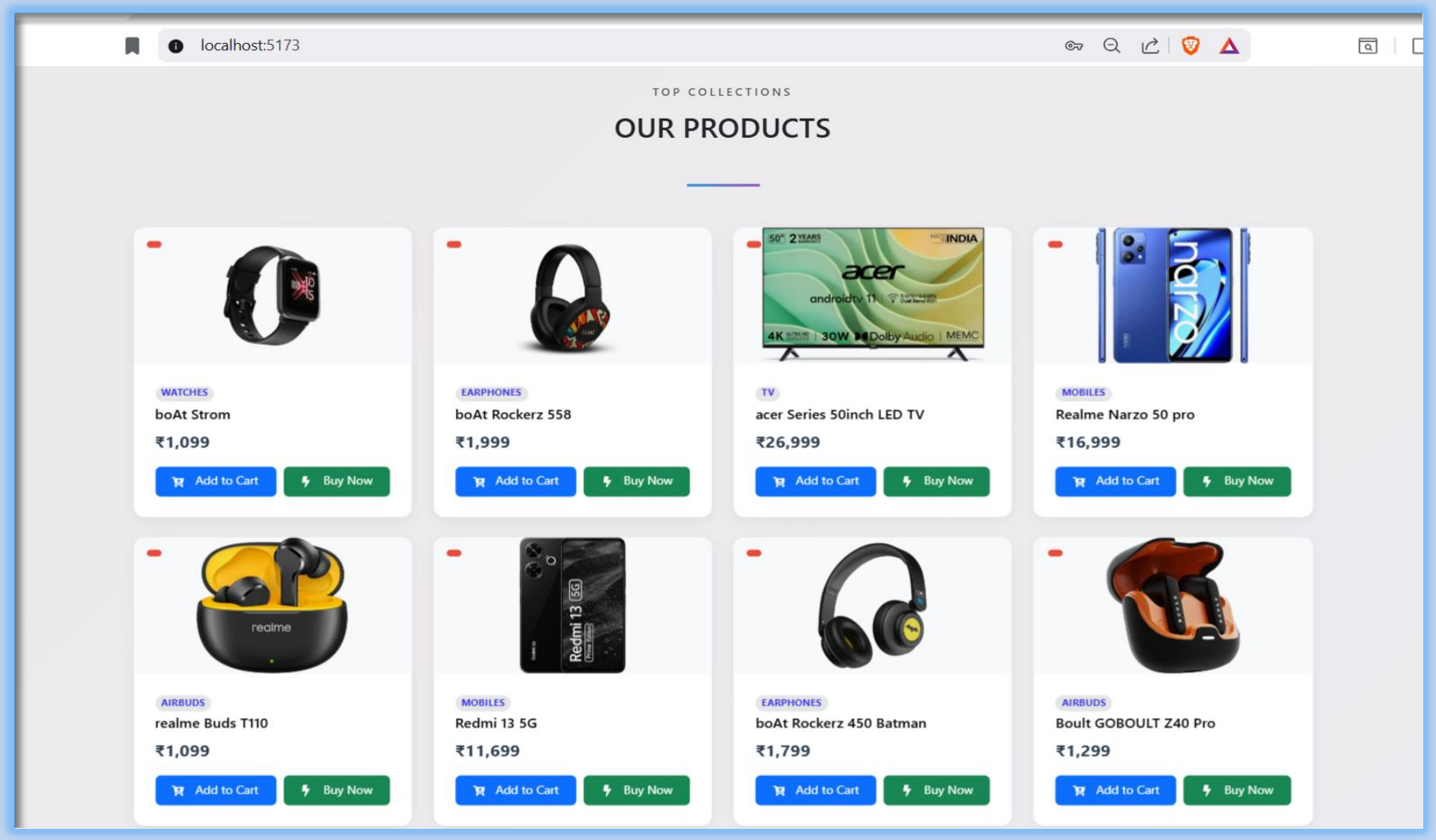
PRODUCTS



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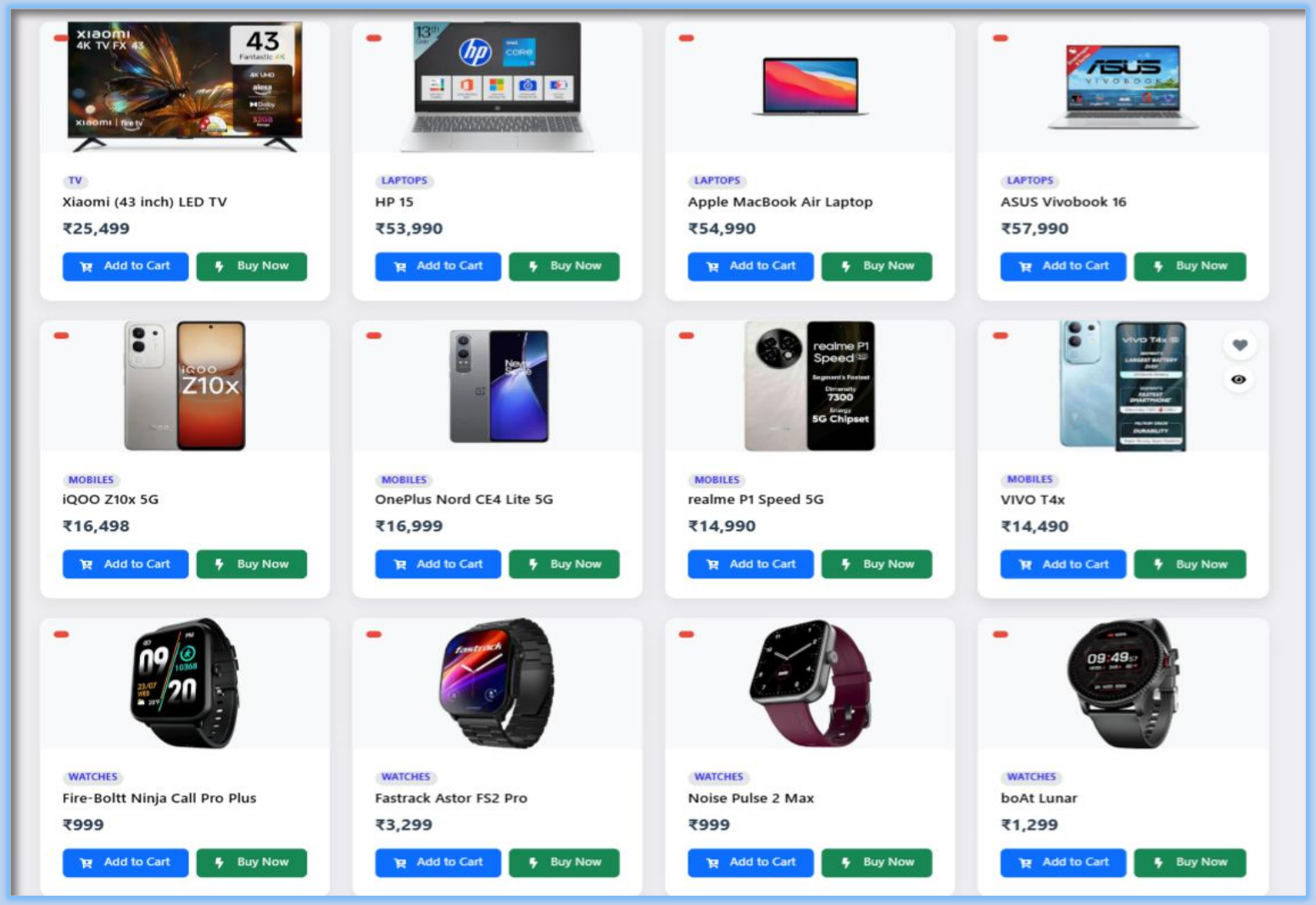

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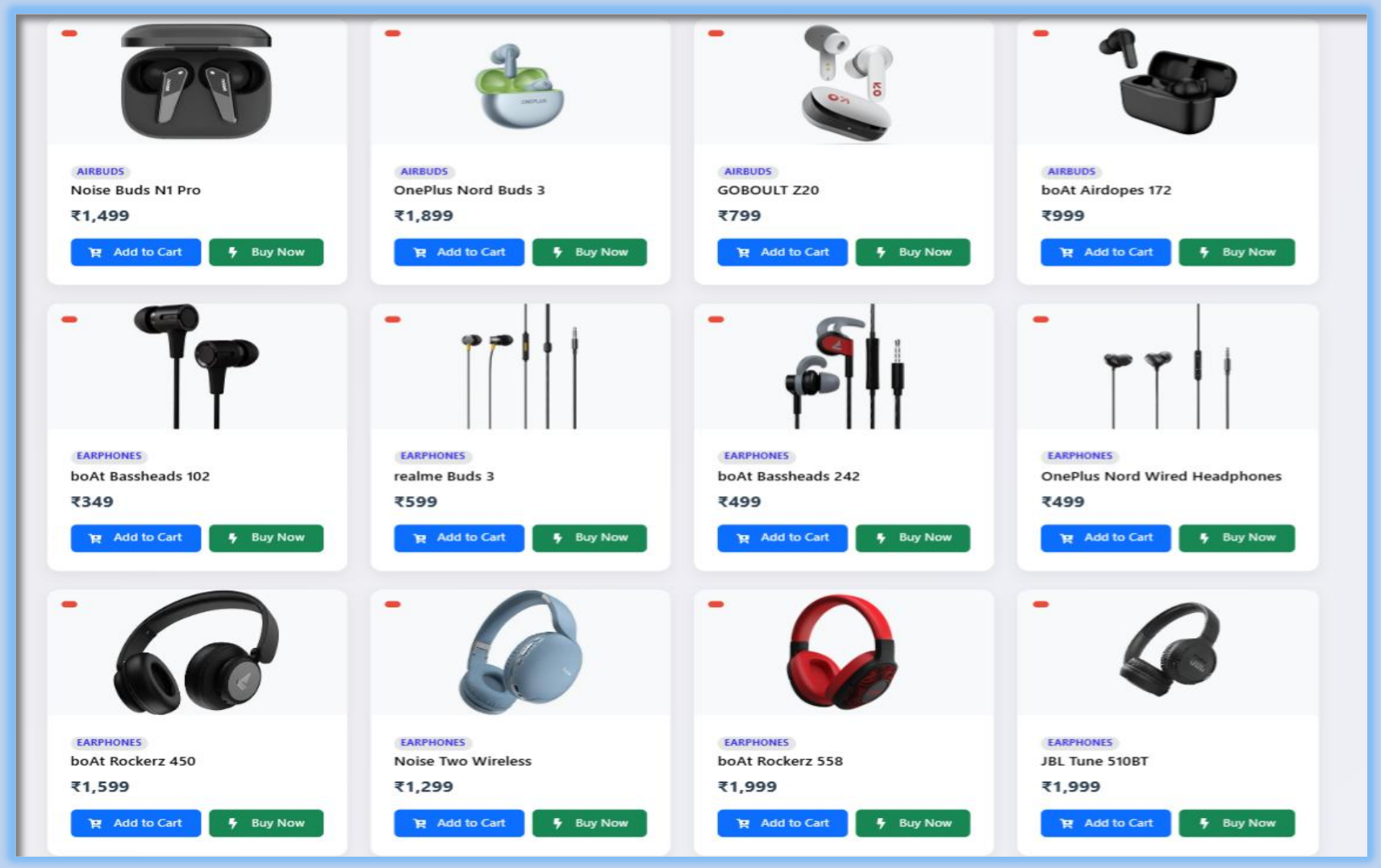
PRODUCTS



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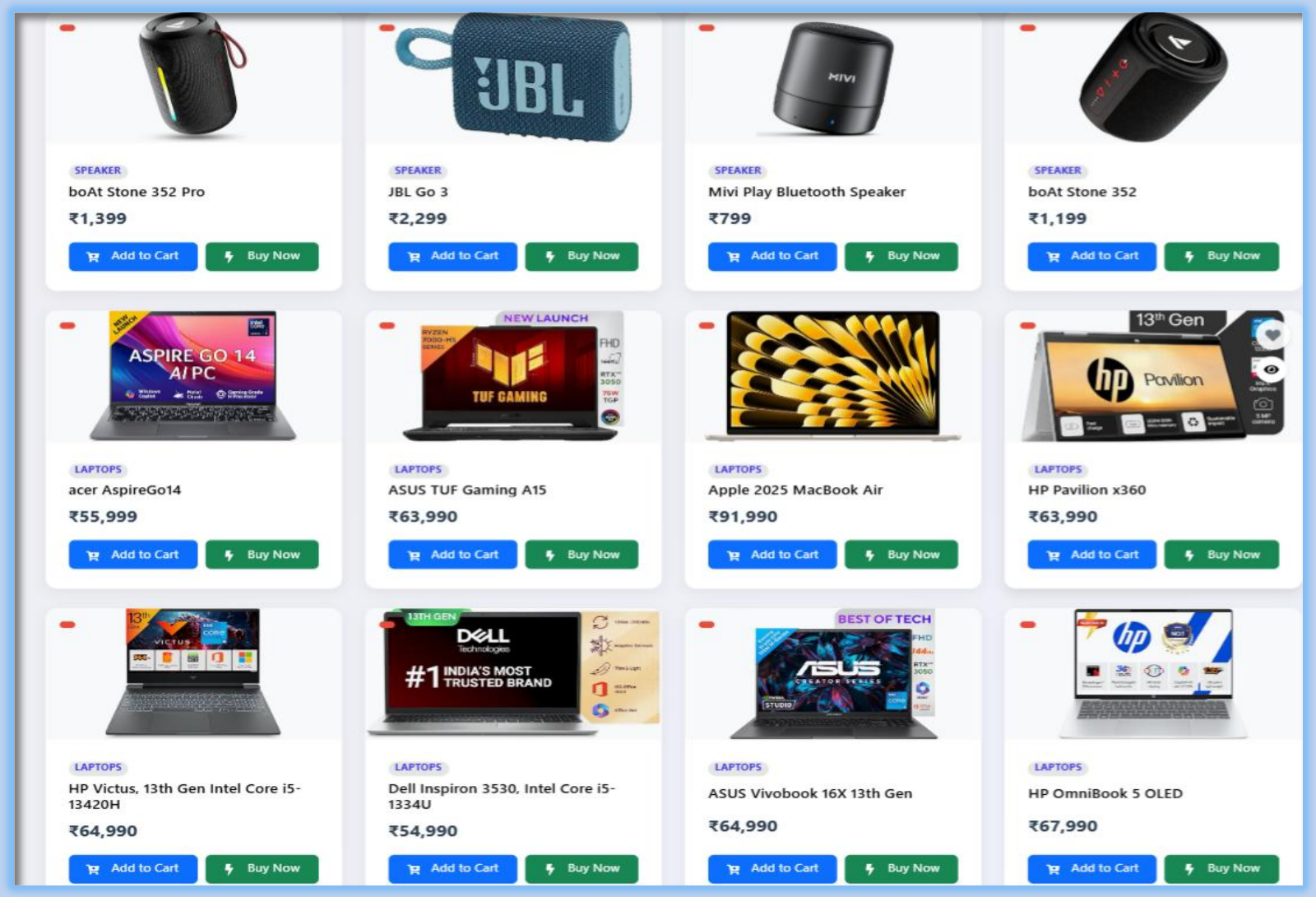
PRODUCTS



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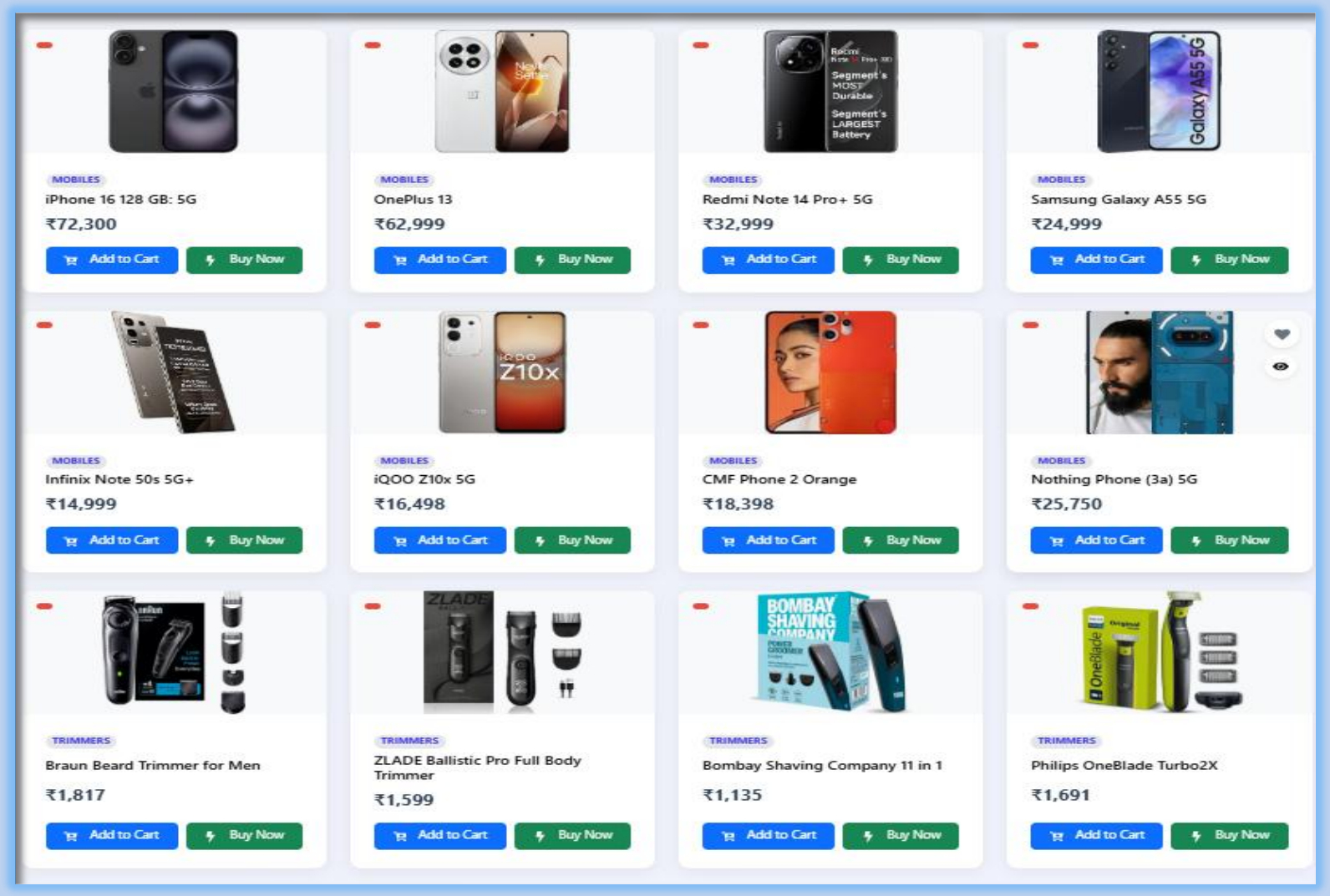
PRODUCTS



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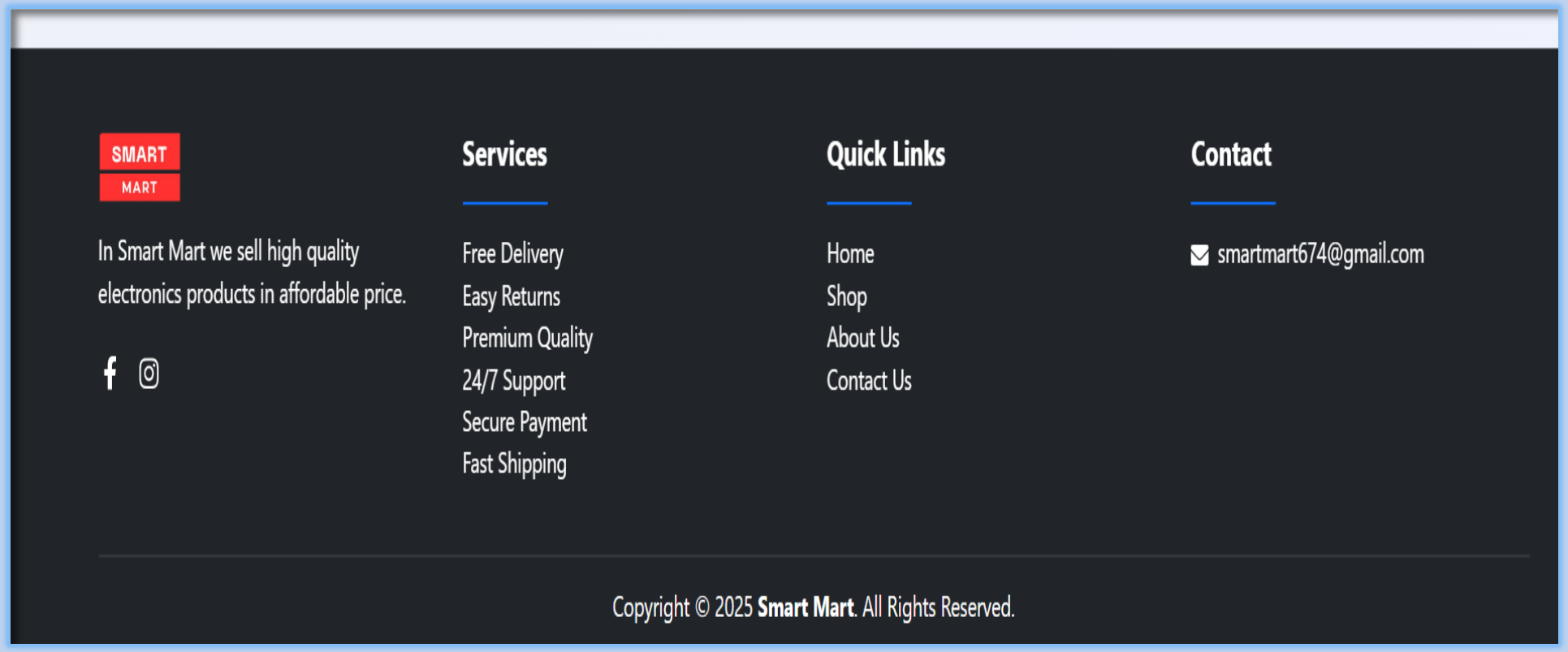
FOOTER


SMART
MART
In Smart Mart we sell high quality electronics products in affordable price.
Services
Free Delivery
Easy Returns
Premium Quality
24/7 Support
Secure Payment
Fast Shipping
Quick Links
Home
Shop
About Us
Contact Us
Contact
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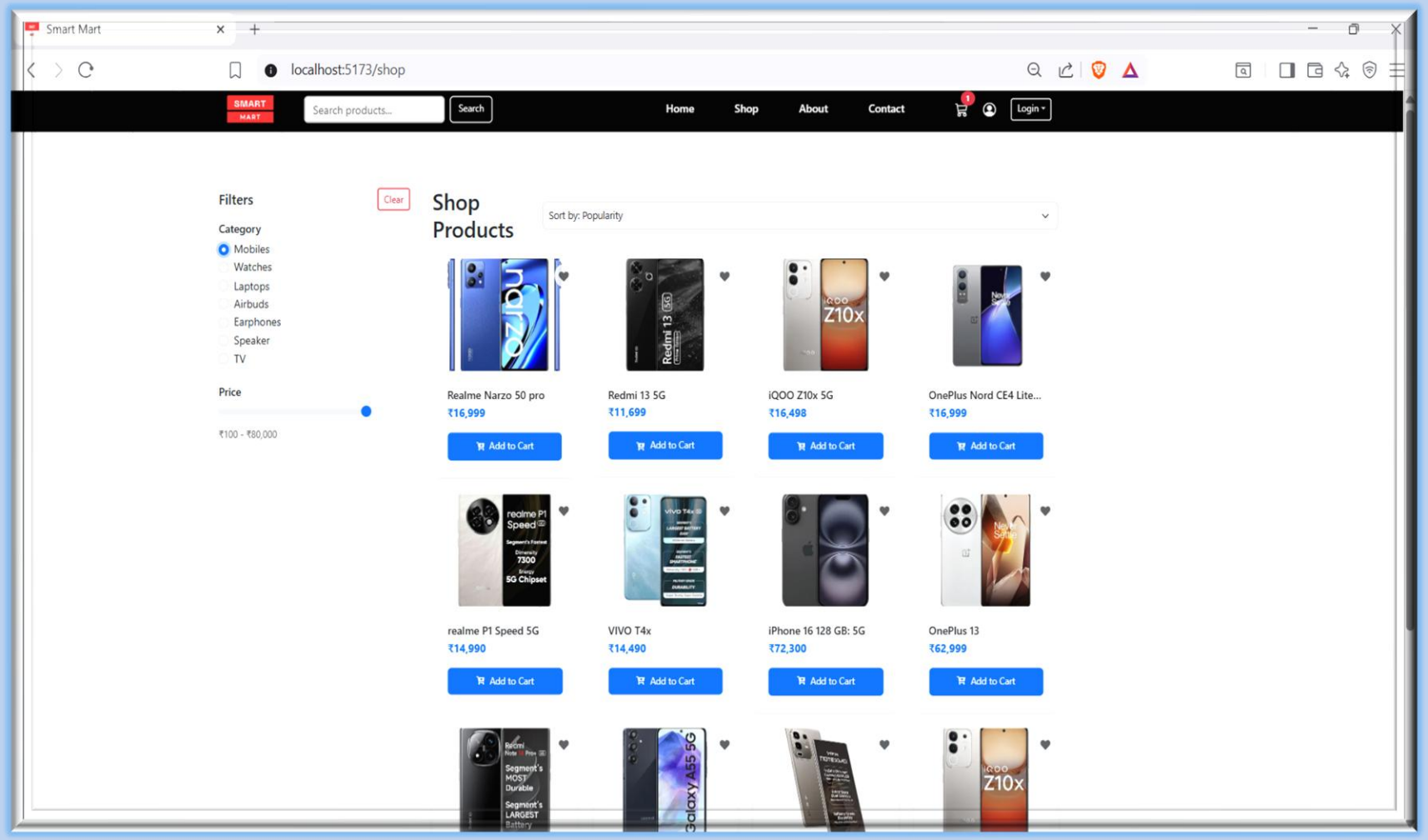
SHOP PAGE



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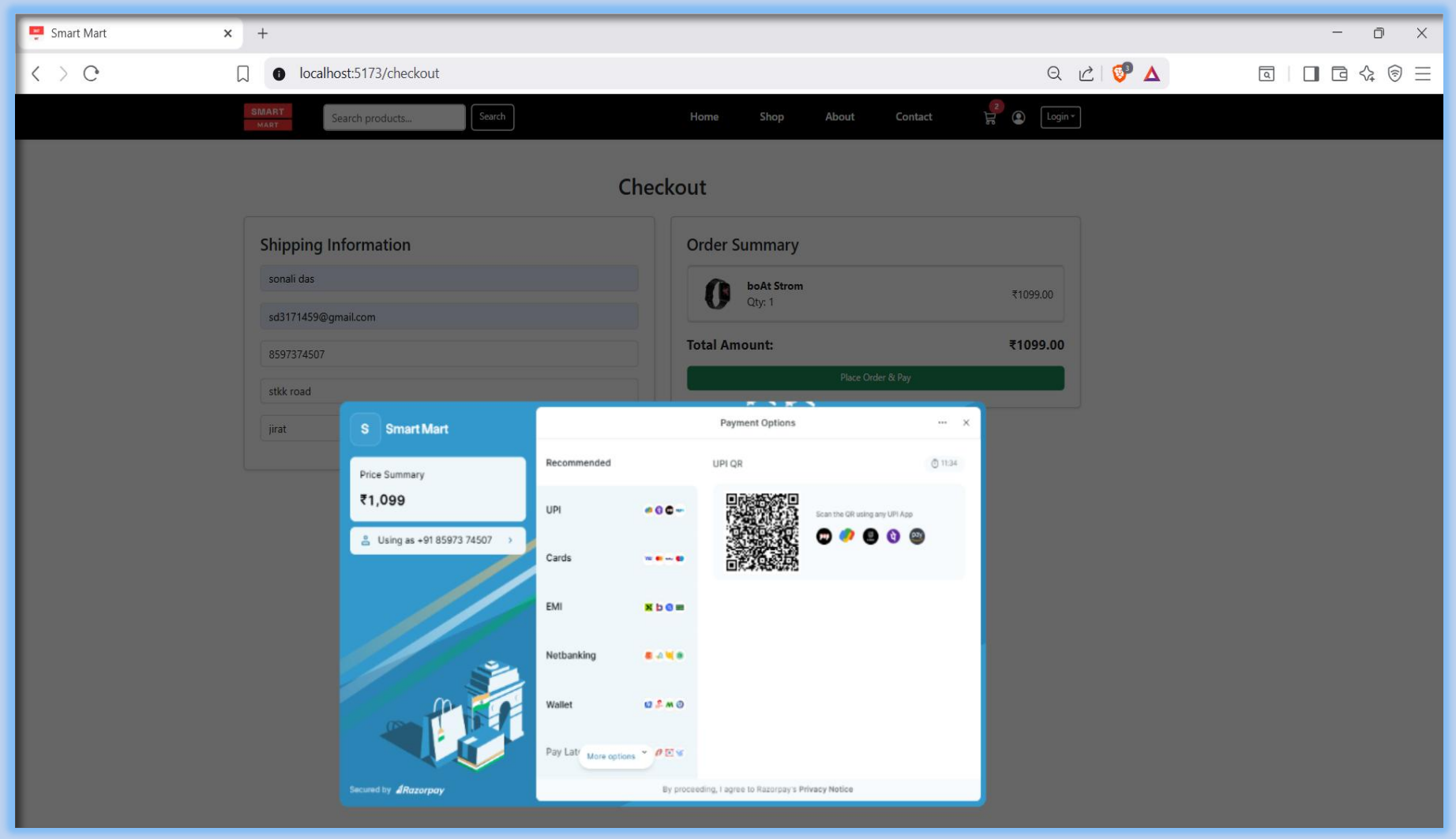
PAYMENT USING RAZORPAY PAGE



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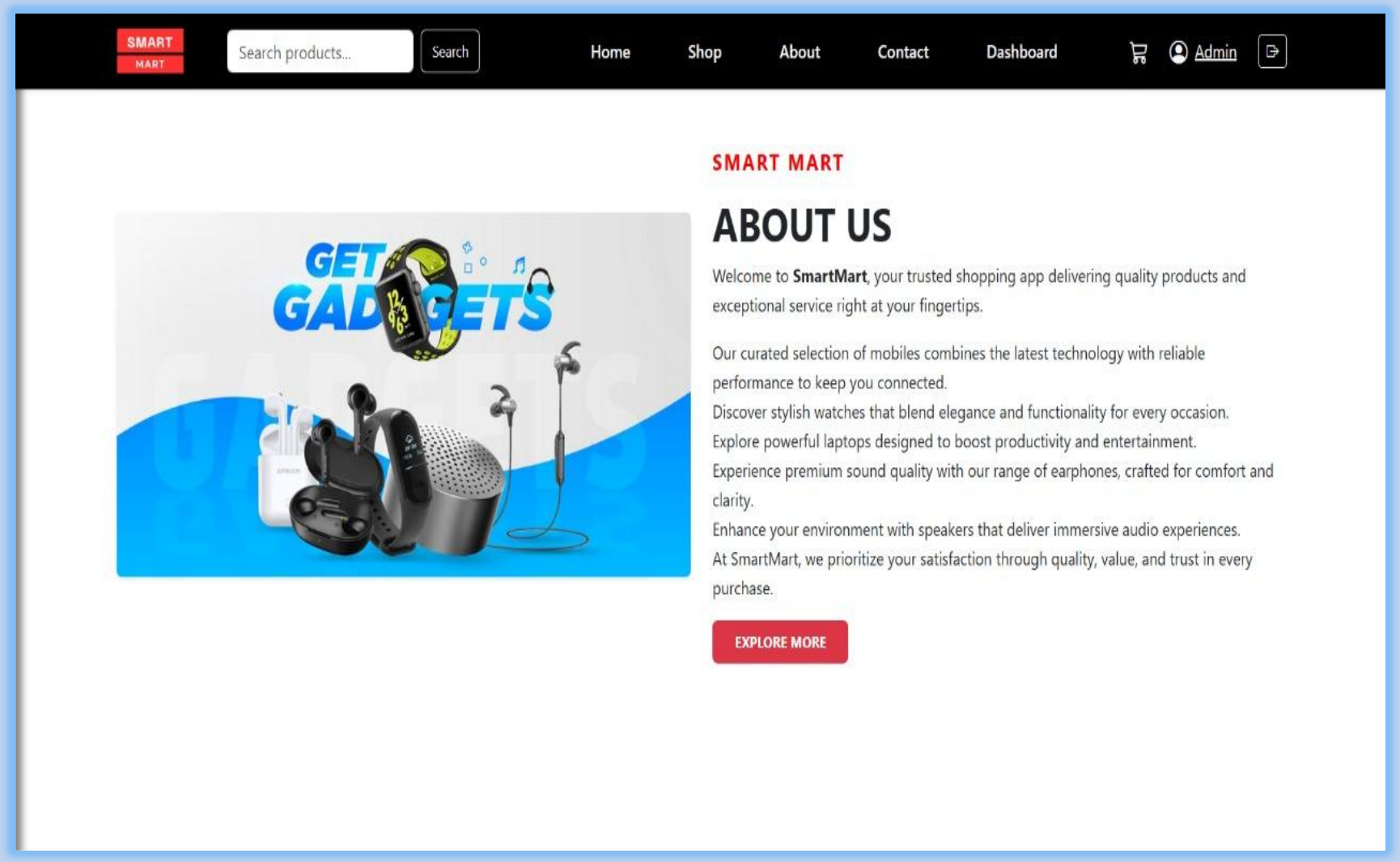
ABOUT PAGE



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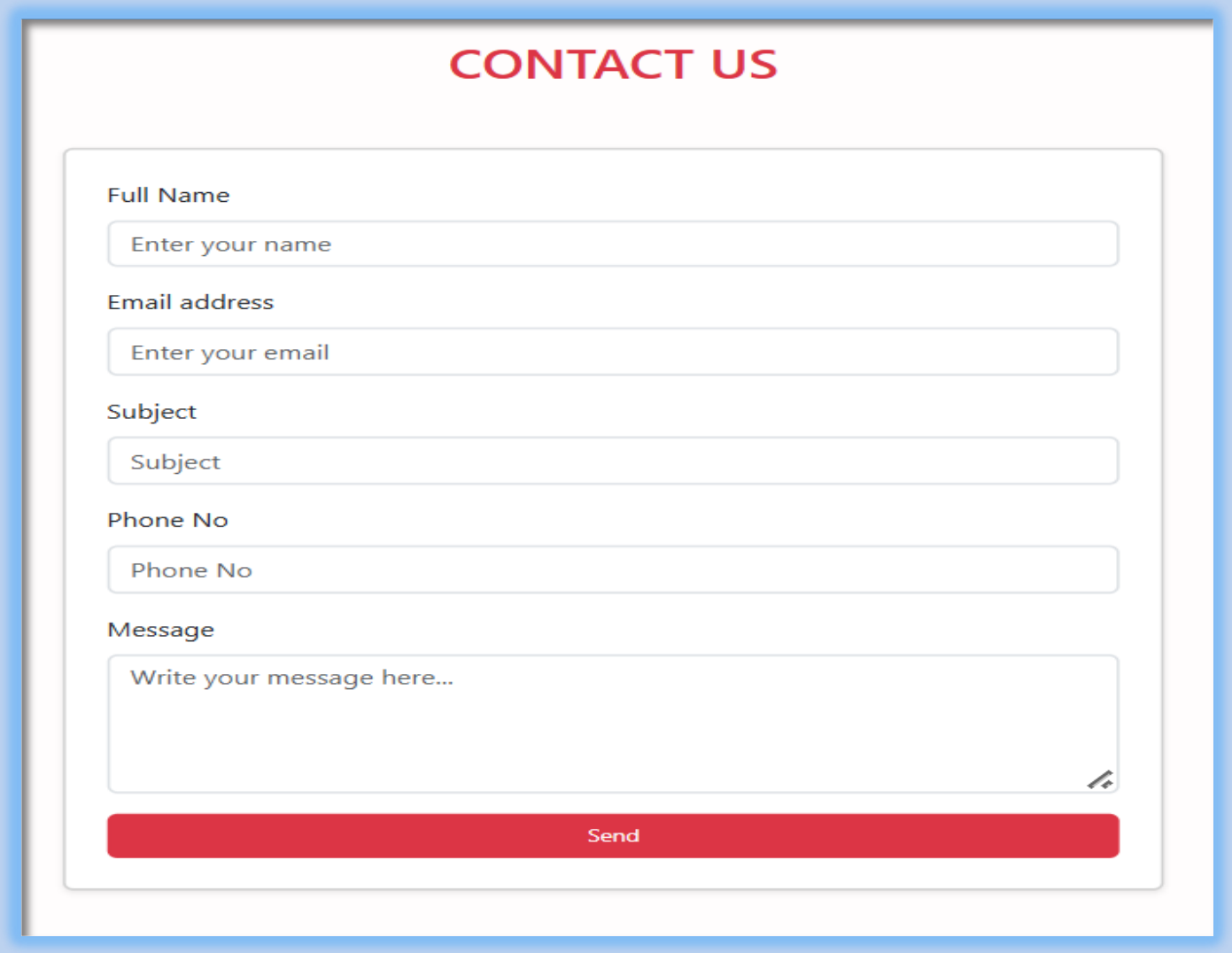
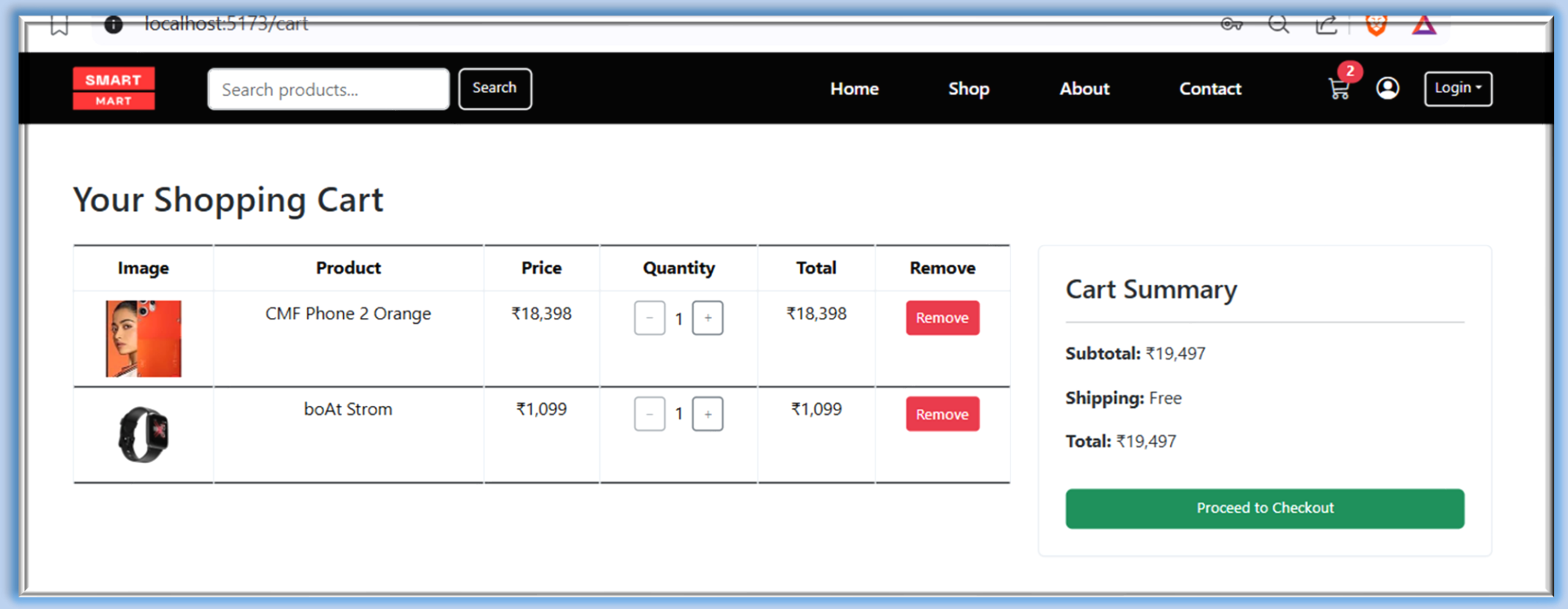
CONTACT PAGE



ADD TO CART



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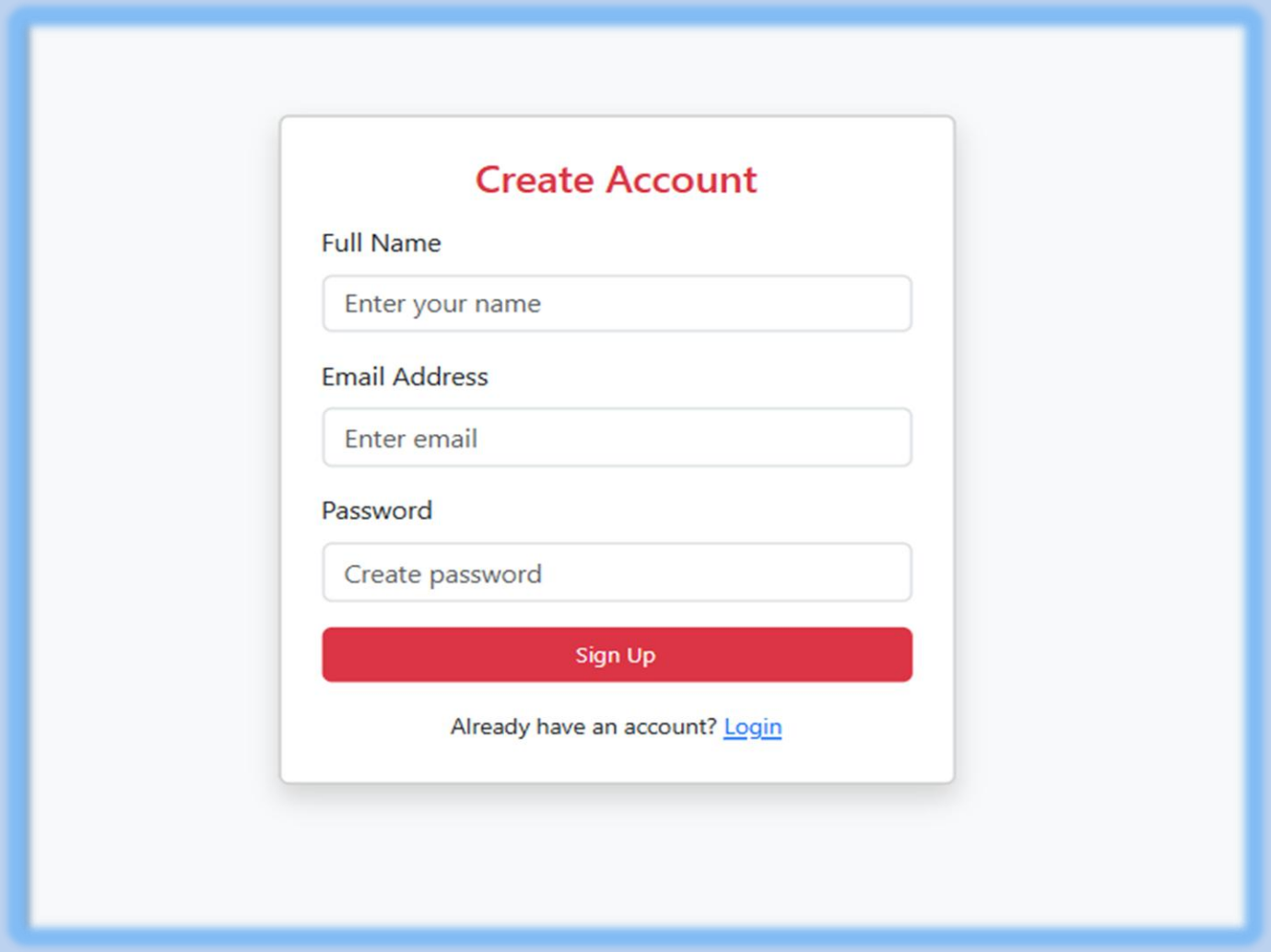
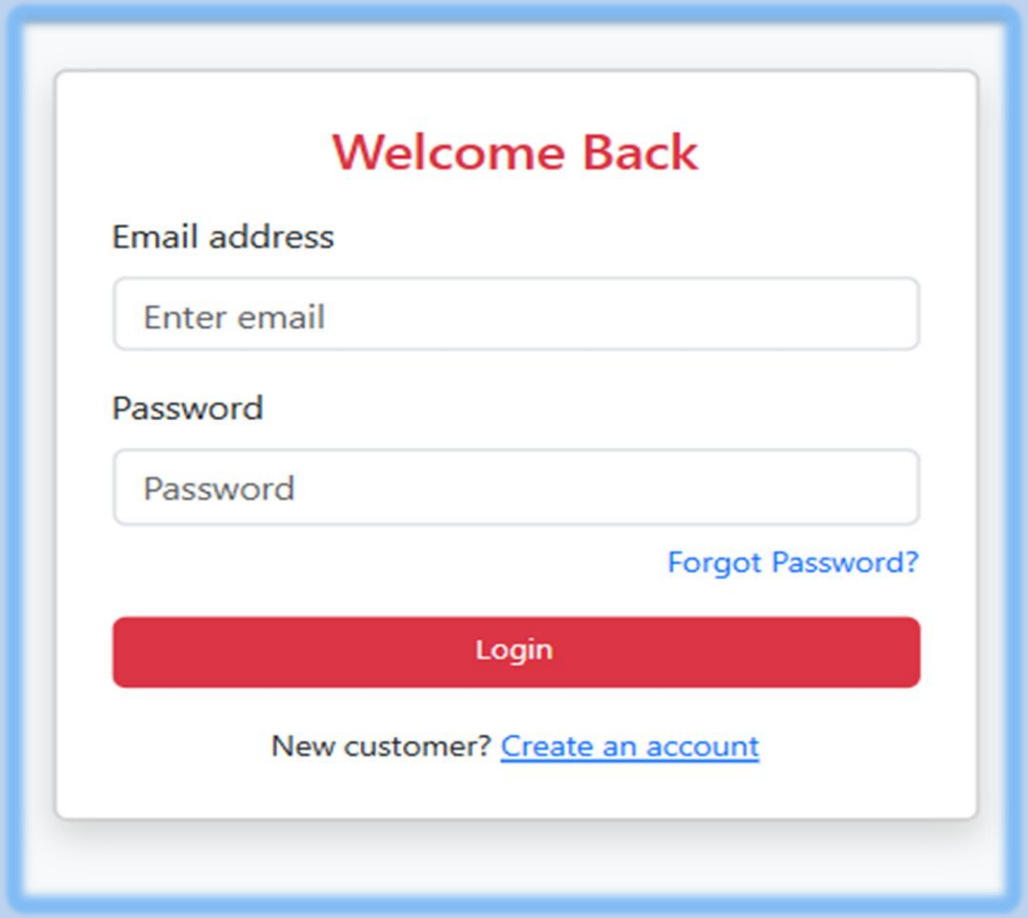
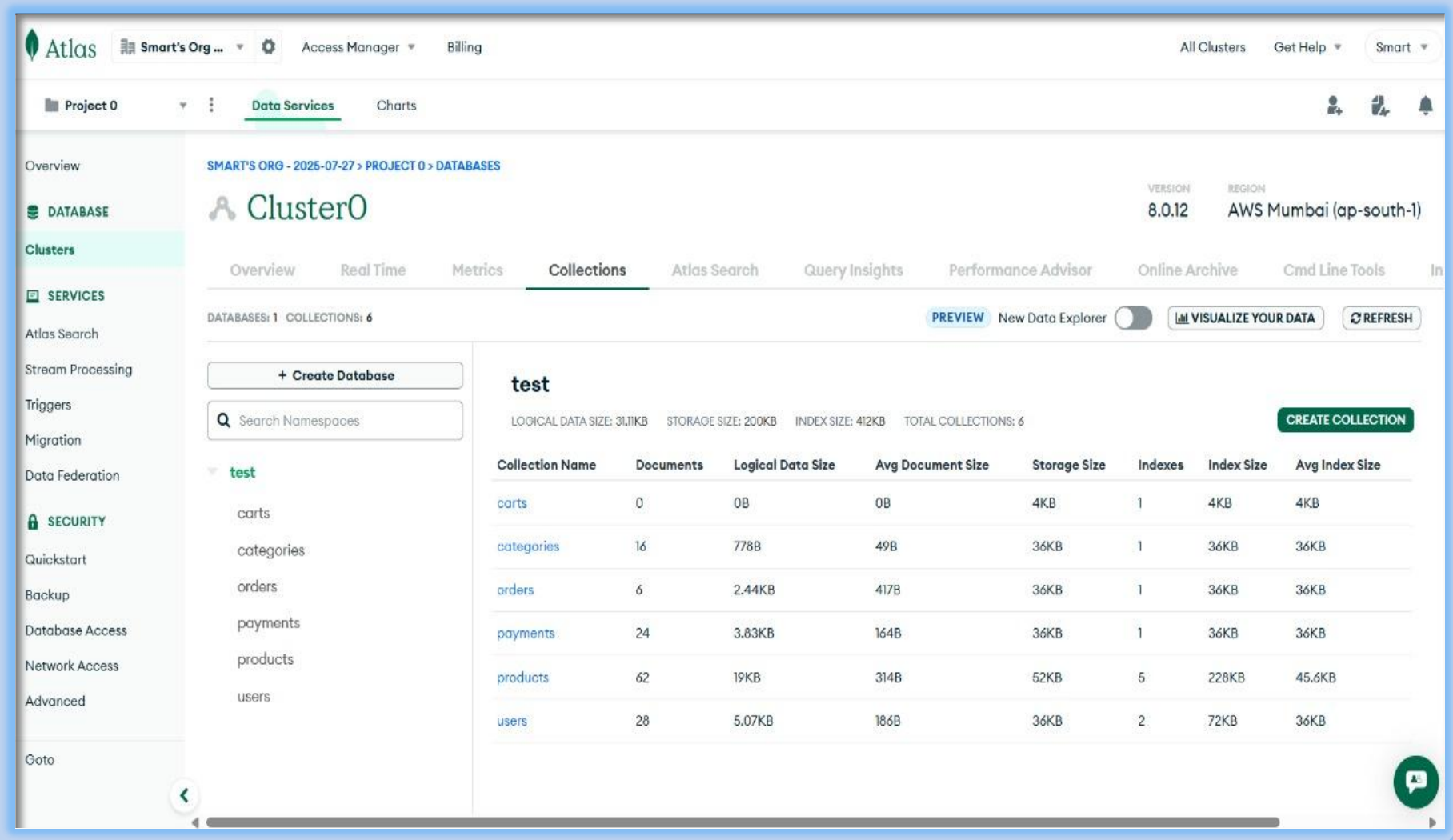
SIGN UP PAGE


Create Account
Full Name
Enter your name
Email Address
Enter email
Password
Create password
Sign Up
Already have an account? Login

LOGIN PAGE


Welcome Back
Email address
Enter email
Password
Password
Forgot Password?
Login
New customer? Create an account

DATABASE



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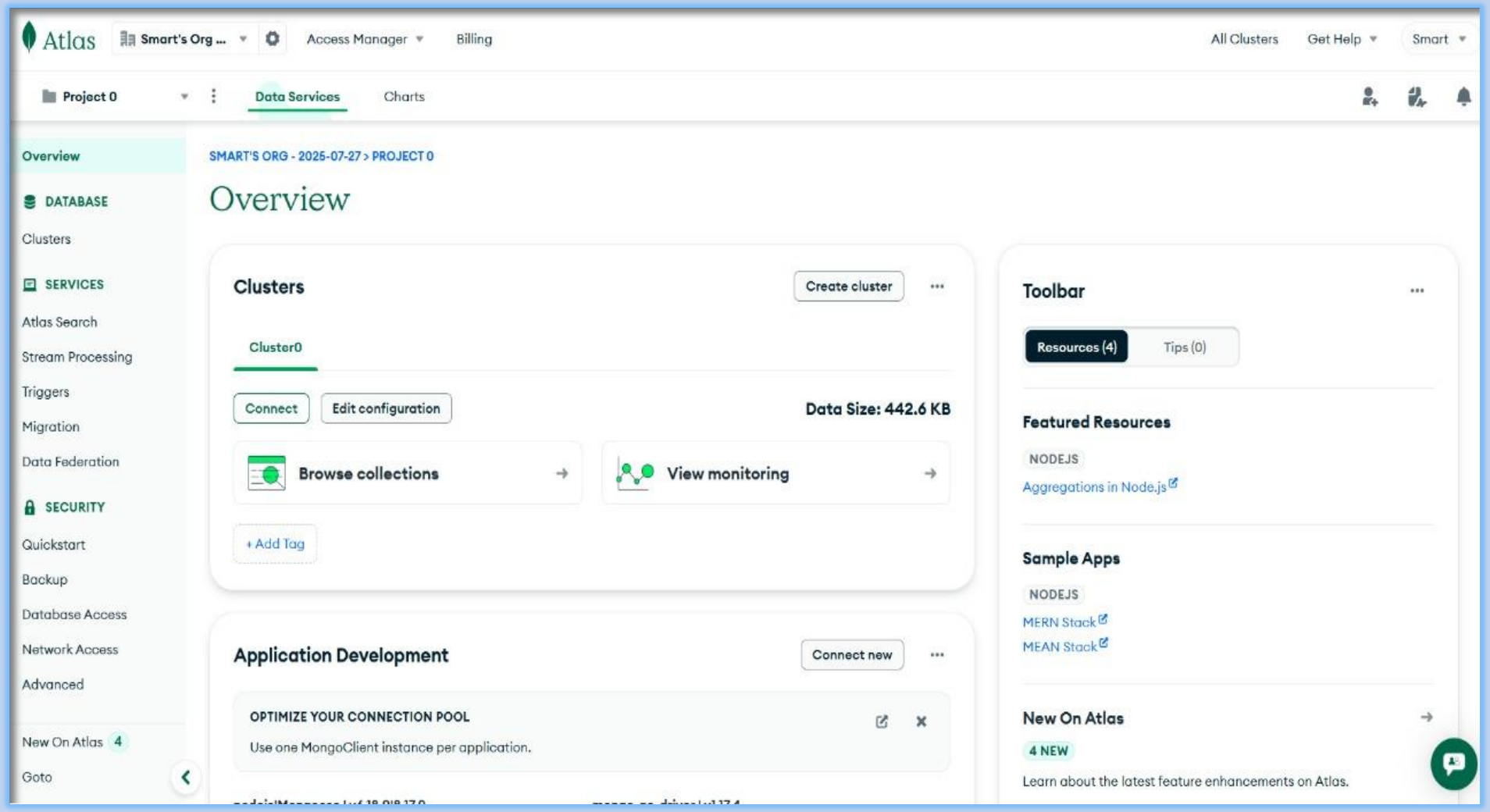
DATABASE



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CONCLUSION

In conclusion, the development of an E-Commerce website using the MERN stack demonstrates the effectiveness of modern web technologies in building scalable, responsive, and user-friendly applications. By leveraging Mongo DB for efficient data storage, Express.js and Node.js for robust backend services, and React.js for a dynamic and interactive frontend, this project successfully showcases a full-stack solution capable of handling real-time user interactions, order management, and secure user authentication. This project not only fulfills the basic requirements of an E-Commerce system—such as browsing products, viewing details, placing orders, and tracking deliveries—but also provides a foundation for future enhancements like online payment integration, real-time chat support, and delivery partner tracking. The modular structure and API-driven approach ensure maintainability and scalability, making it well-suited for real-world deployment. Ultimately, this project highlights the potential of MERN stack applications in solving everyday problems and creating a seamless shopping experience for users.

24/7

24/7

THANK YOU

END