

SMART MART

Ardent Computech Computer Science &
Technology

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CONTENT

I. INTRODUCTION -----	XIV. PAYMENT USING STRIPE PAGE -----
-----3	-----20
II. OBJECTIVE -----	XV. ABOUT PAGE -----
-----4	-----21
III. ADVANCED FEATURES -----	XVI. CONTACT PAGE -----
-----5	-----22
IV. UNIQUE FEATURES -----	XVII.ADD TO CART -----
-----6	-----23
V. SCHEMA DIAGRAM -----	XVIII.SIGN UP PAGE -----
-----7	-24
VI. LEVEL 0 DFD STRUCTURE -----	XIX. LOGIN PAGE -----
-----8	-----25
VII. SEQUENCEDIAGRAM -----	XX. DATABASE -----
-----9	-----26 – 27
VIII. USE CASE DIAGRAM -----	
-----10	
IX. HOME PAGE -----	XXI. CONCLUSION -----
-----11	-----28
X. CATEGORY -----	XXII.24/7 -----
-----12	-----29
XI. PRODUCTS -----	
----- 13 – 17	
XII. FOOTER -----	XXIII.THANK YOU -----
-----18	-----30
XIII. SHOP PAGE -----	
-----19	

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.





OBJECTIVE

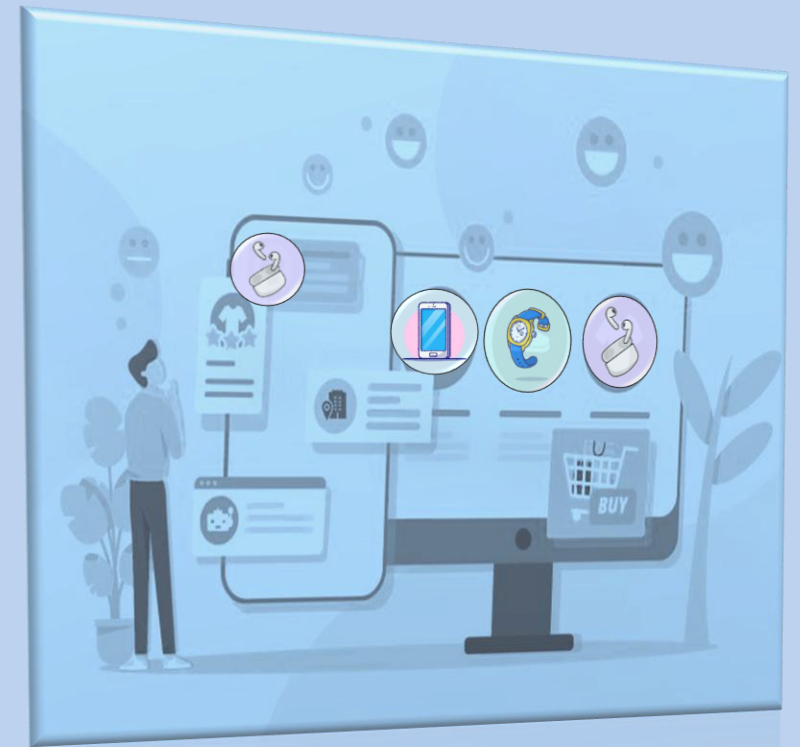
The objective of building this e-commerce website using the MERN stack (MongoDB, Express.js, React, Node.js) is to create a dynamic, user-friendly web application that allows users to purchase products. Key goals include :

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).



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.





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.

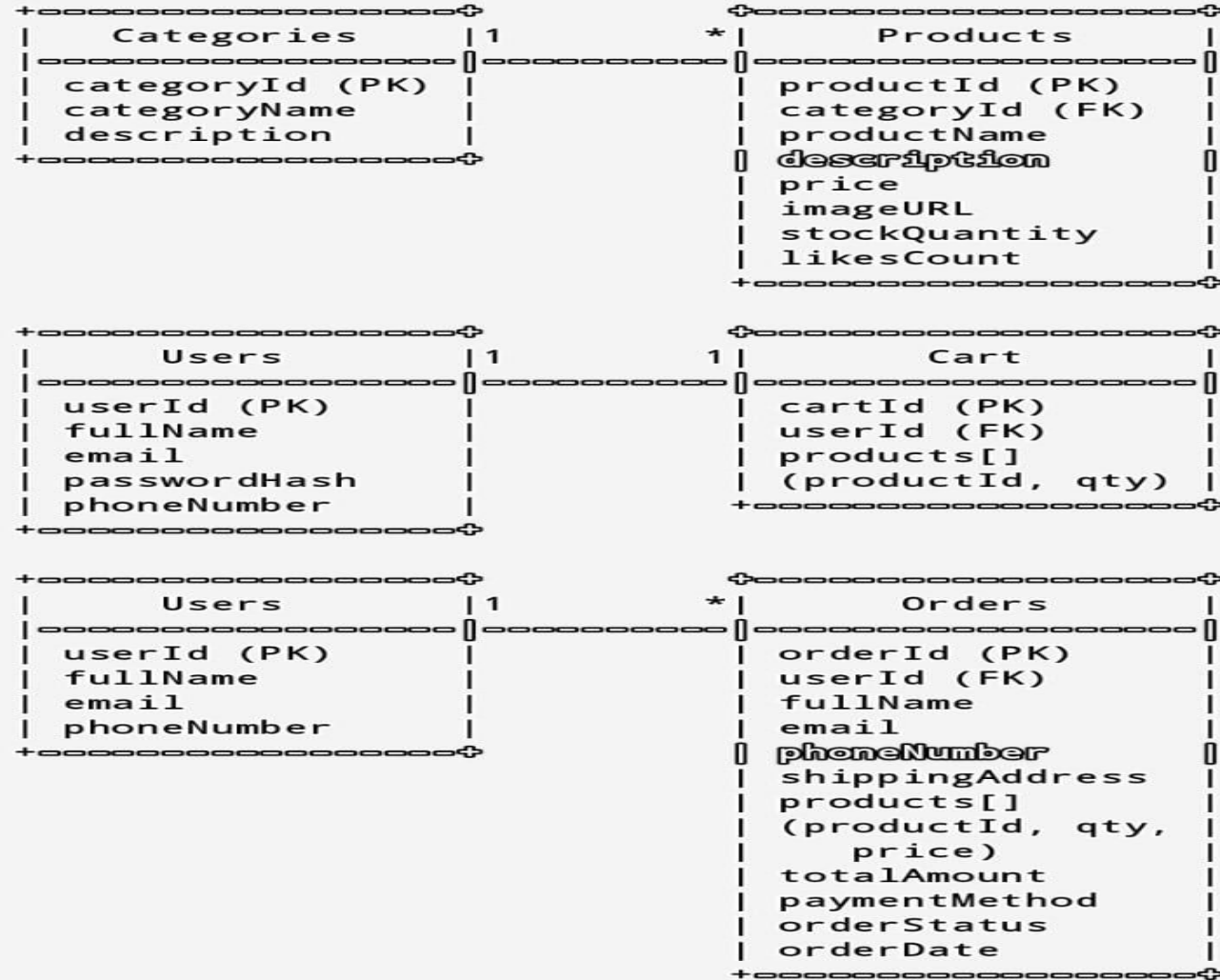
3.AI-Powered Chatbot for Support –

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

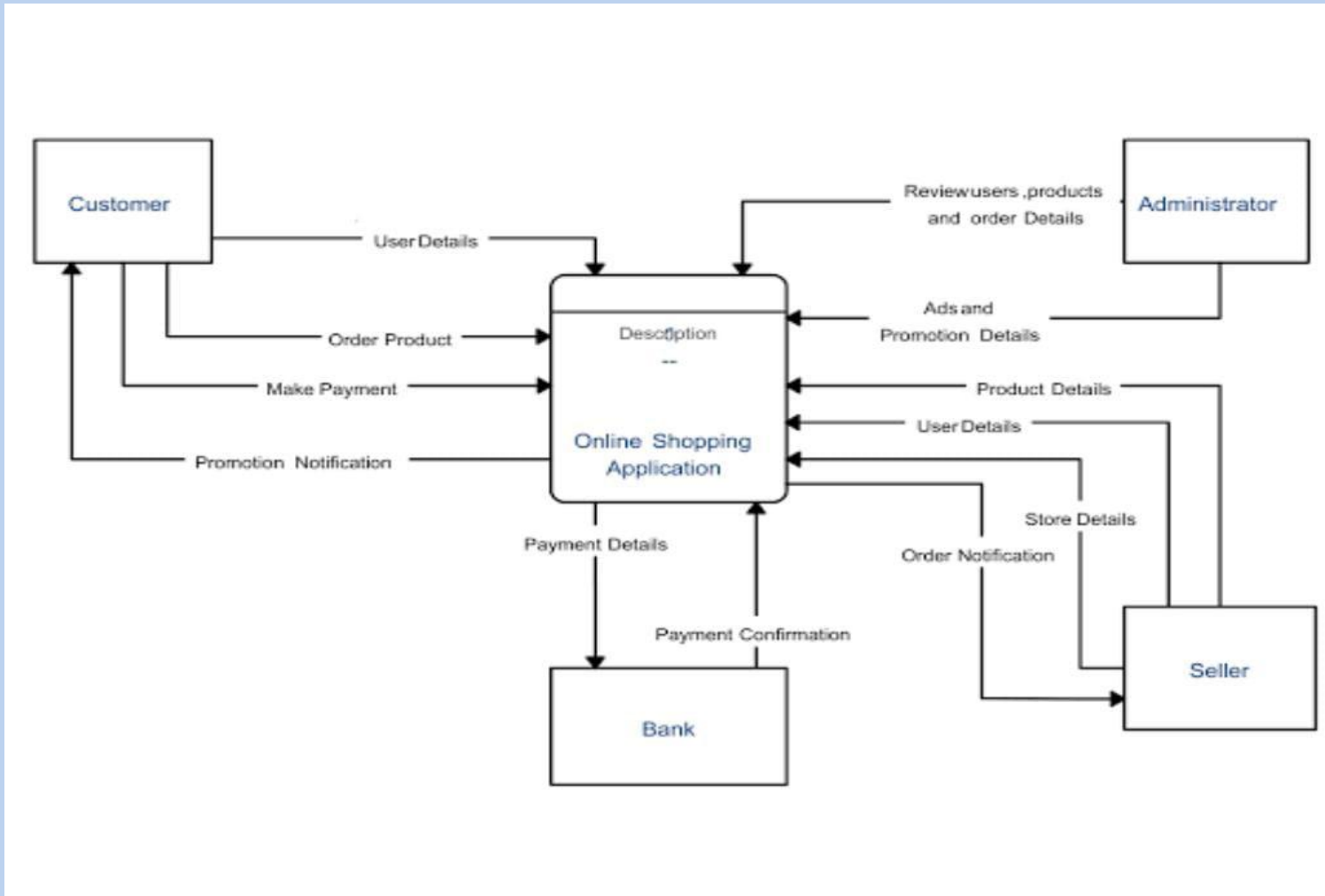
4. Wishlist & Price Drop Alerts –

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

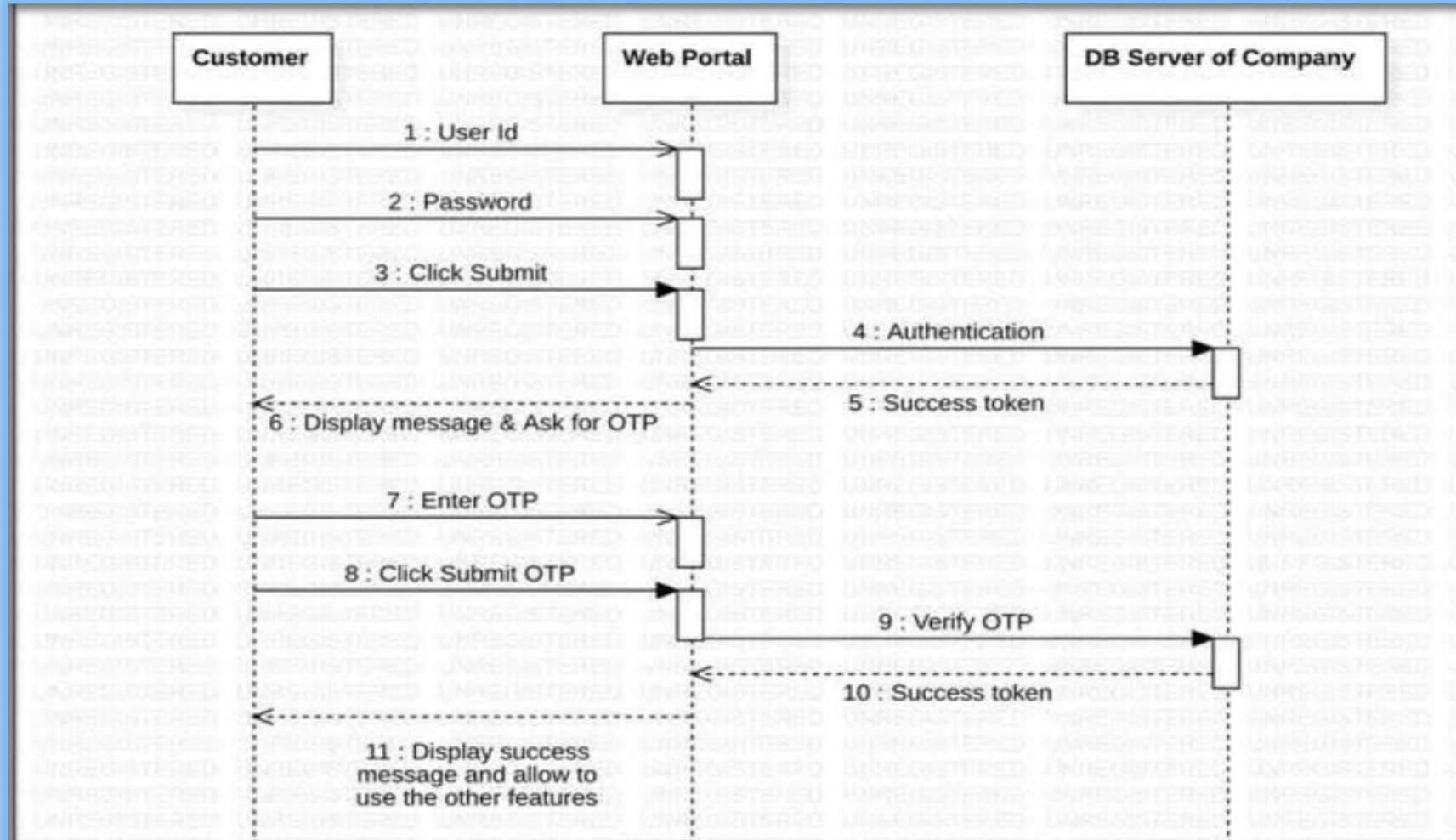
SCHEMA DIAGRAM



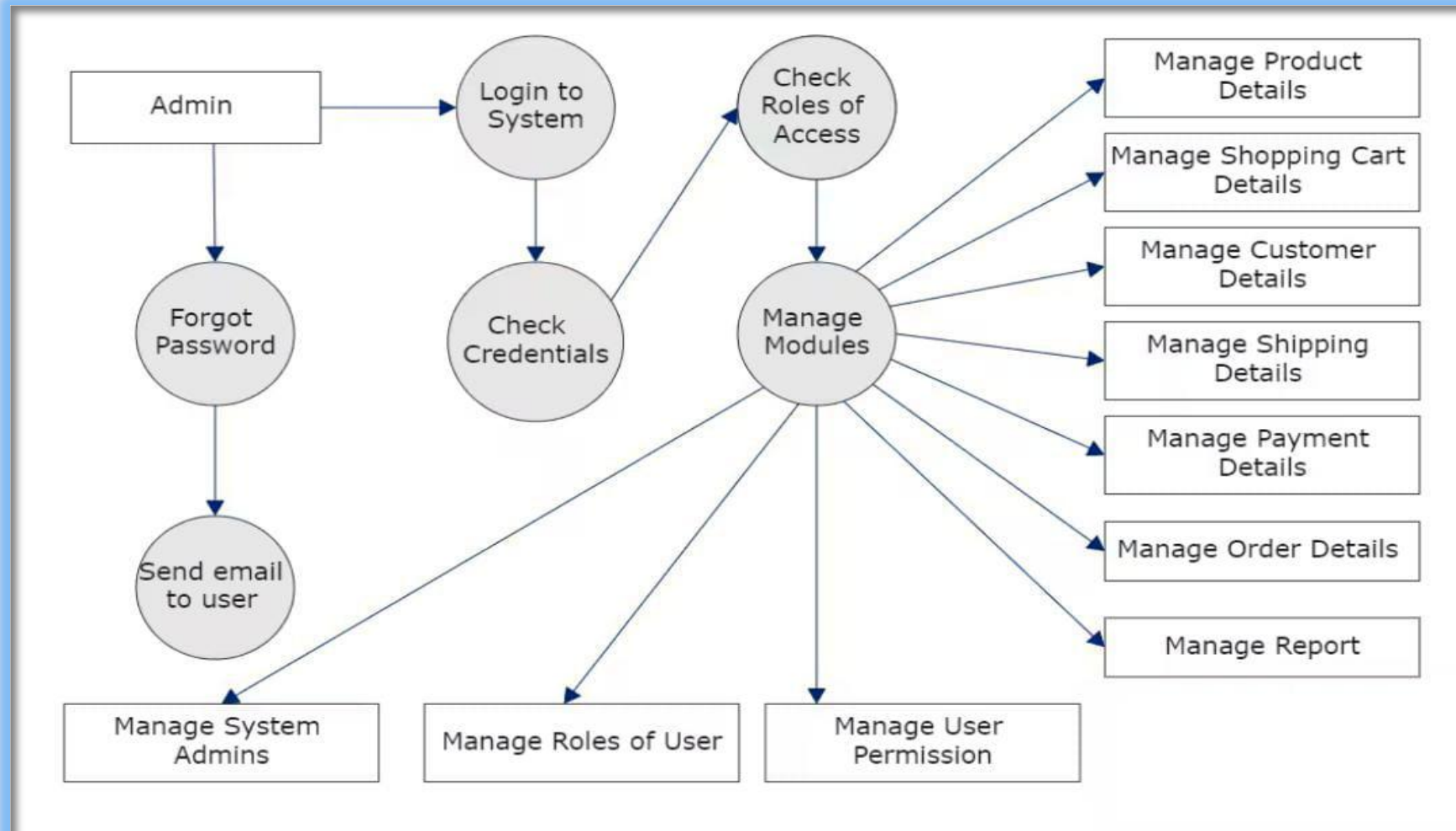
LEVEL 0 DFD STRUCTURE



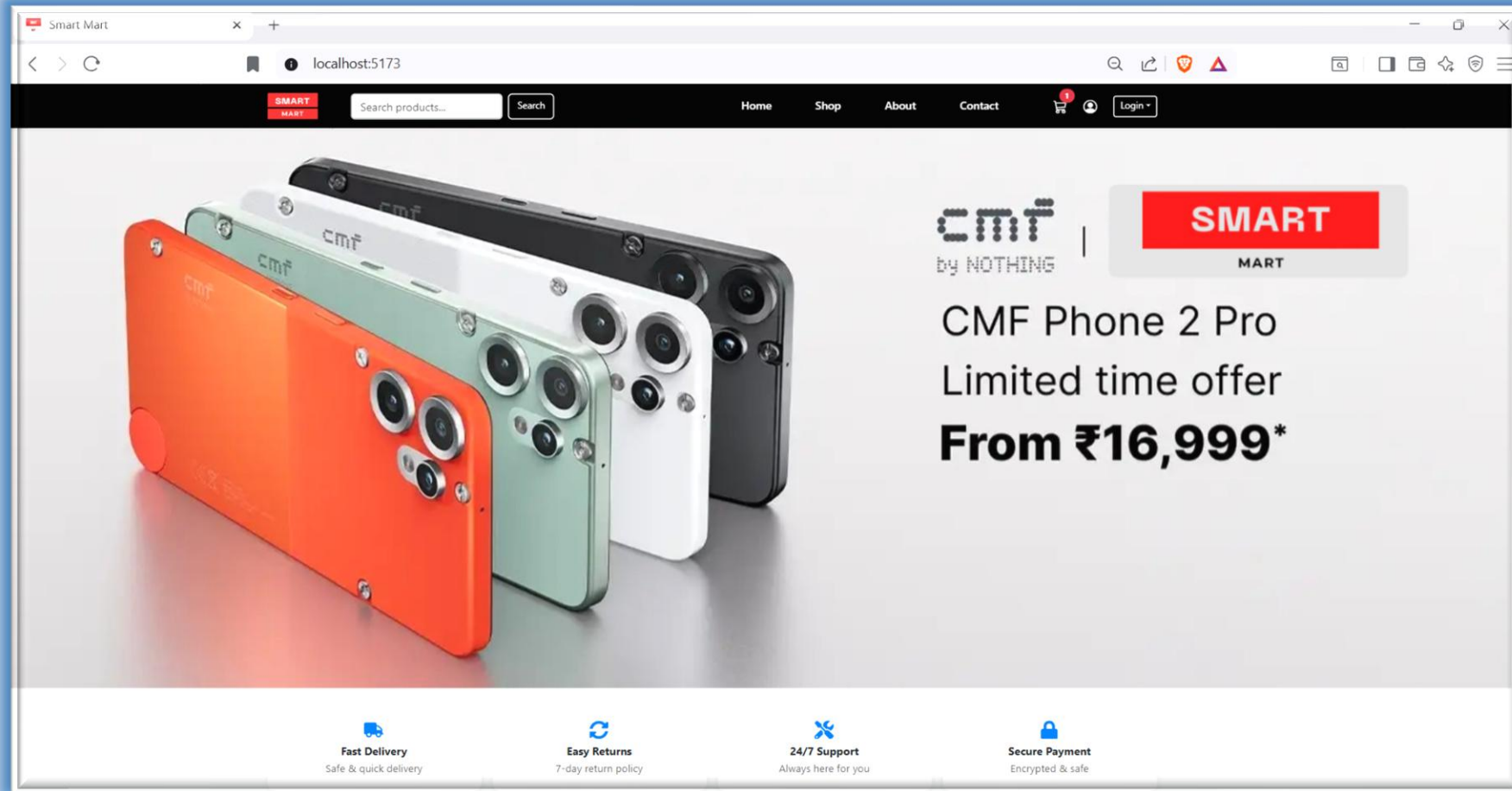
SEQUENCE DIAGRAM



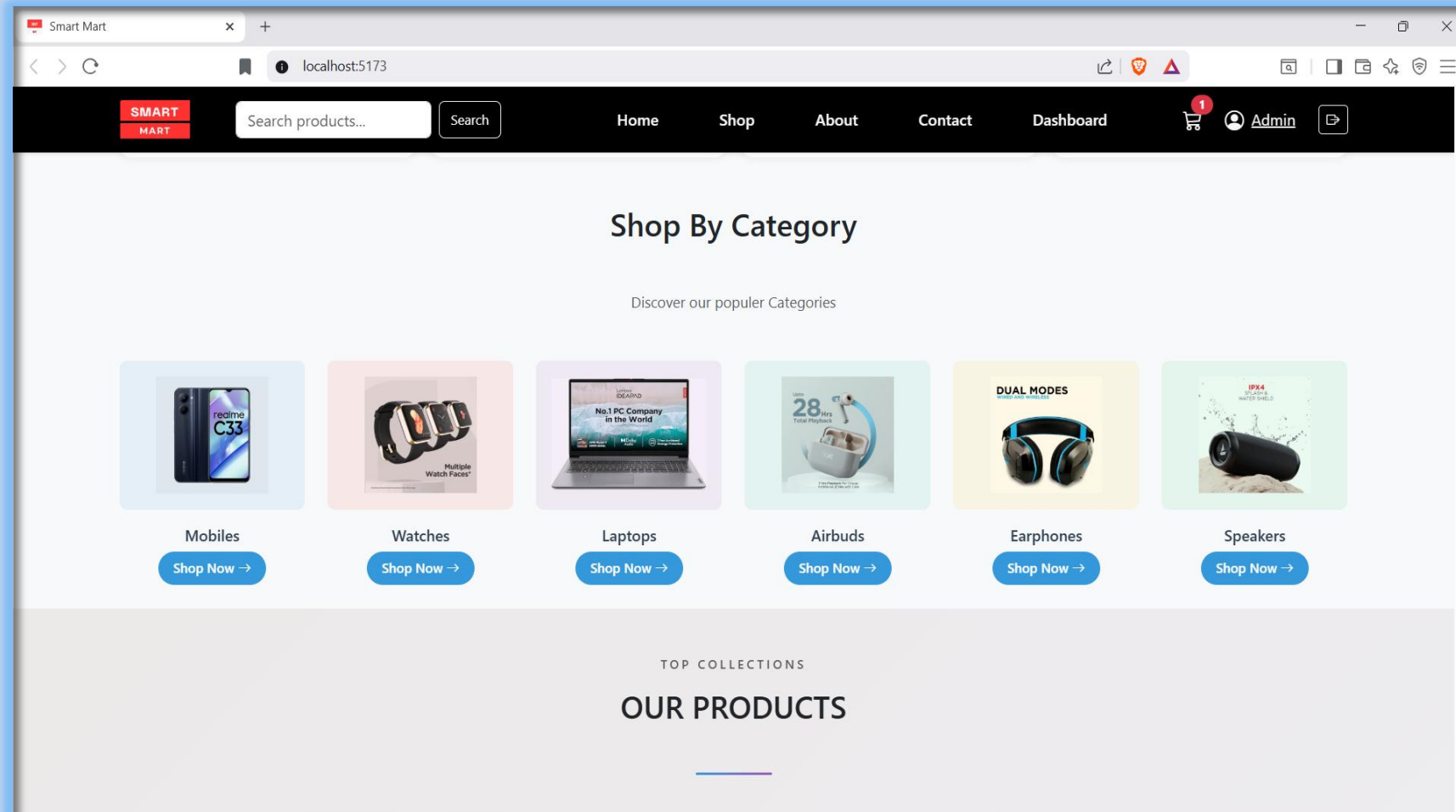
USE CASE DIAGRAM



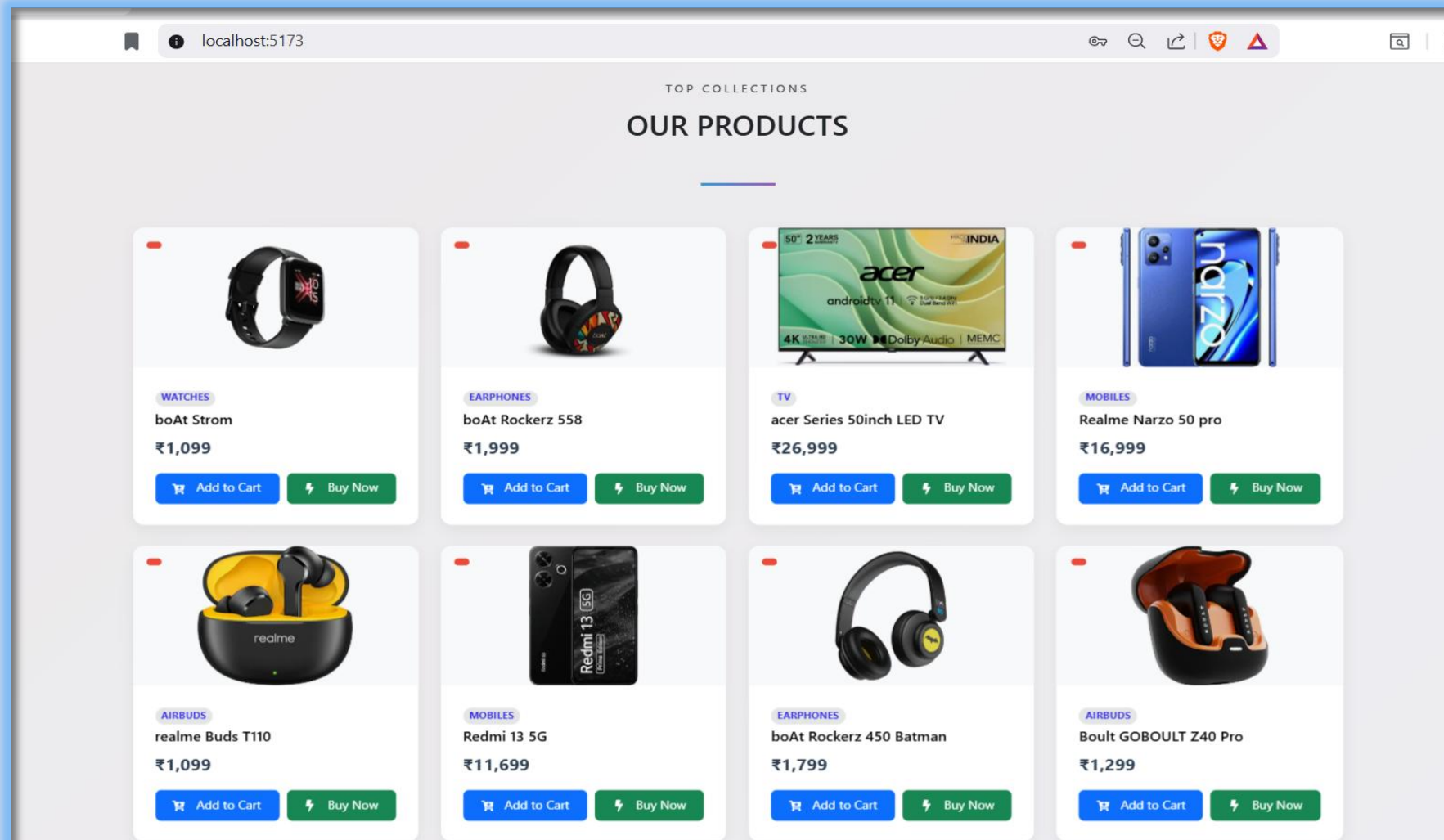
HOME PAGE















CATEGORY















PRODUCTS















PRODUCTS

 <p>TV Xiaomi (43 inch) LED TV ₹25,499</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS HP 15 ₹53,990</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS Apple MacBook Air Laptop ₹54,990</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS ASUS Vivobook 16 ₹57,990</p> <p>Add to Cart Buy Now</p>
 <p>MOBILES iQOO Z10x 5G ₹16,498</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES OnePlus Nord CE4 Lite 5G ₹16,999</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES realme P1 Speed 5G ₹14,990</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES VIVO T4x ₹14,490</p> <p>Add to Cart Buy Now</p>
 <p>WATCHES Fire-Boltt Ninja Call Pro Plus ₹999</p> <p>Add to Cart Buy Now</p>	 <p>WATCHES Fastrack Astor FS2 Pro ₹3,299</p> <p>Add to Cart Buy Now</p>	 <p>WATCHES Noise Pulse 2 Max ₹999</p> <p>Add to Cart Buy Now</p>	 <p>WATCHES boAt Lunar ₹1,299</p> <p>Add to Cart Buy Now</p>













PRODUCTS

 <p>AIRBUDS Noise Buds N1 Pro ₹1,499</p> <p>Add to Cart Buy Now</p>	 <p>AIRBUDS OnePlus Nord Buds 3 ₹1,899</p> <p>Add to Cart Buy Now</p>	 <p>AIRBUDS GOBOULT Z20 ₹799</p> <p>Add to Cart Buy Now</p>	 <p>AIRBUDS boAt Airdopes 172 ₹999</p> <p>Add to Cart Buy Now</p>
 <p>EARPHONES boAt Bassheads 102 ₹349</p> <p>Add to Cart Buy Now</p>	 <p>EARPHONES realme Buds 3 ₹599</p> <p>Add to Cart Buy Now</p>	 <p>EARPHONES boAt Bassheads 242 ₹499</p> <p>Add to Cart Buy Now</p>	 <p>EARPHONES OnePlus Nord Wired Headphones ₹499</p> <p>Add to Cart Buy Now</p>
 <p>EARPHONES boAt Rockerz 450 ₹1,599</p> <p>Add to Cart Buy Now</p>	 <p>EARPHONES Noise Two Wireless ₹1,299</p> <p>Add to Cart Buy Now</p>	 <p>EARPHONES boAt Rockerz 558 ₹1,999</p> <p>Add to Cart Buy Now</p>	 <p>EARPHONES JBL Tune 510BT ₹1,999</p> <p>Add to Cart Buy Now</p>

PRODUCTS

 <p>SPEAKER boAt Stone 352 Pro ₹1,399</p> <p>Add to Cart Buy Now</p>	 <p>SPEAKER JBL Go 3 ₹2,299</p> <p>Add to Cart Buy Now</p>	 <p>SPEAKER Mivi Play Bluetooth Speaker ₹799</p> <p>Add to Cart Buy Now</p>	 <p>SPEAKER boAt Stone 352 ₹1,199</p> <p>Add to Cart Buy Now</p>
 <p>LAPTOPS acer AspireGo14 ₹55,999</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS ASUS TUF Gaming A15 ₹63,990</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS Apple 2025 MacBook Air ₹91,990</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS HP Pavilion x360 ₹63,990</p> <p>Add to Cart Buy Now</p>
 <p>LAPTOPS HP Victus, 13th Gen Intel Core i5-13420H ₹64,990</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS Dell Inspiron 3530, Intel Core i5-1334U ₹54,990</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS ASUS Vivobook 16X 13th Gen ₹64,990</p> <p>Add to Cart Buy Now</p>	 <p>LAPTOPS HP OmniBook 5 OLED ₹67,990</p> <p>Add to Cart Buy Now</p>

PRODUCTS

 <p>MOBILES</p> <p>iPhone 16 128 GB: 5G</p> <p>₹72,300</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES</p> <p>OnePlus 13</p> <p>₹62,999</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES</p> <p>Redmi Note 14 Pro+ 5G</p> <p>₹32,999</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES</p> <p>Samsung Galaxy A55 5G</p> <p>₹24,999</p> <p>Add to Cart Buy Now</p>
 <p>MOBILES</p> <p>Infinix Note 50s 5G+</p> <p>₹14,999</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES</p> <p>iQOO Z10x 5G</p> <p>₹16,498</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES</p> <p>CMF Phone 2 Orange</p> <p>₹18,398</p> <p>Add to Cart Buy Now</p>	 <p>MOBILES</p> <p>Nothing Phone (3a) 5G</p> <p>₹25,750</p> <p>Add to Cart Buy Now</p>
 <p>TRIMMERS</p> <p>Braun Beard Trimmer for Men</p> <p>₹1,817</p> <p>Add to Cart Buy Now</p>	 <p>TRIMMERS</p> <p>ZLADE Ballistic Pro Full Body Trimmer</p> <p>₹1,599</p> <p>Add to Cart Buy Now</p>	 <p>TRIMMERS</p> <p>Bombay Shaving Company 11 in 1</p> <p>₹1,135</p> <p>Add to Cart Buy Now</p>	 <p>TRIMMERS</p> <p>Philips OneBlade Turbo2X</p> <p>₹1,691</p> <p>Add to Cart Buy Now</p>

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

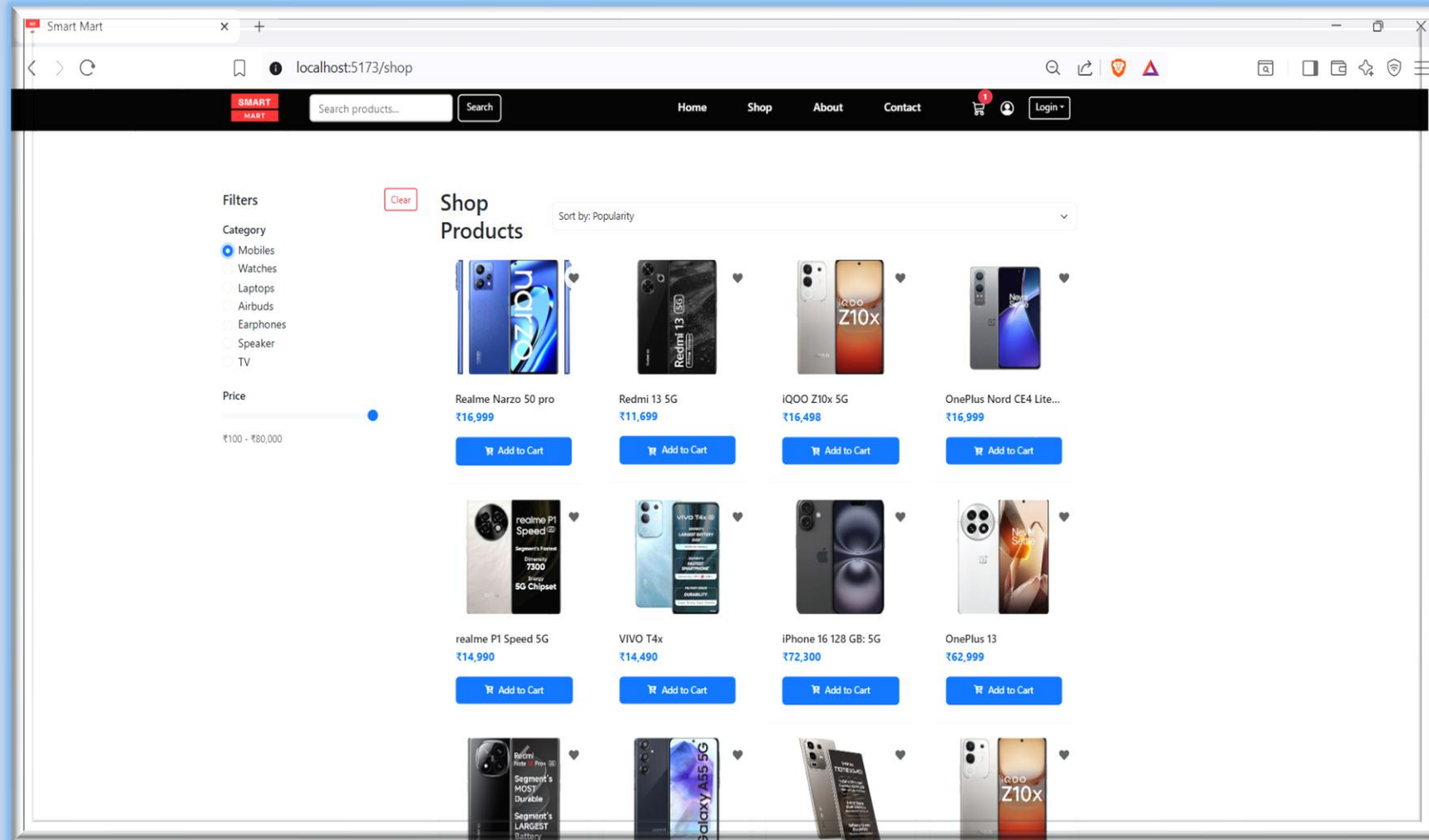
Home
Shop
About Us
Contact Us

Contact

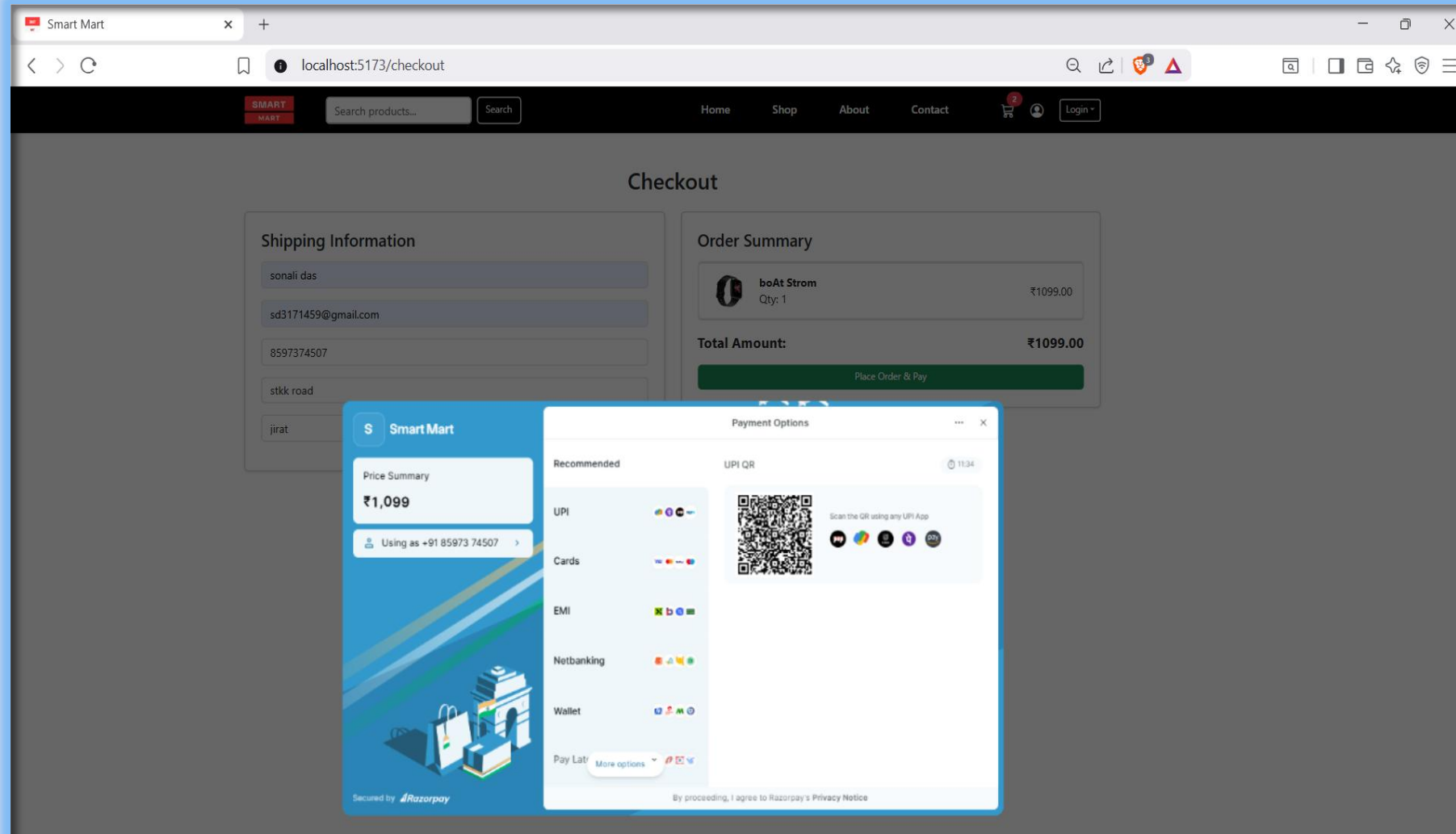
✉ smartmart674@gmail.com

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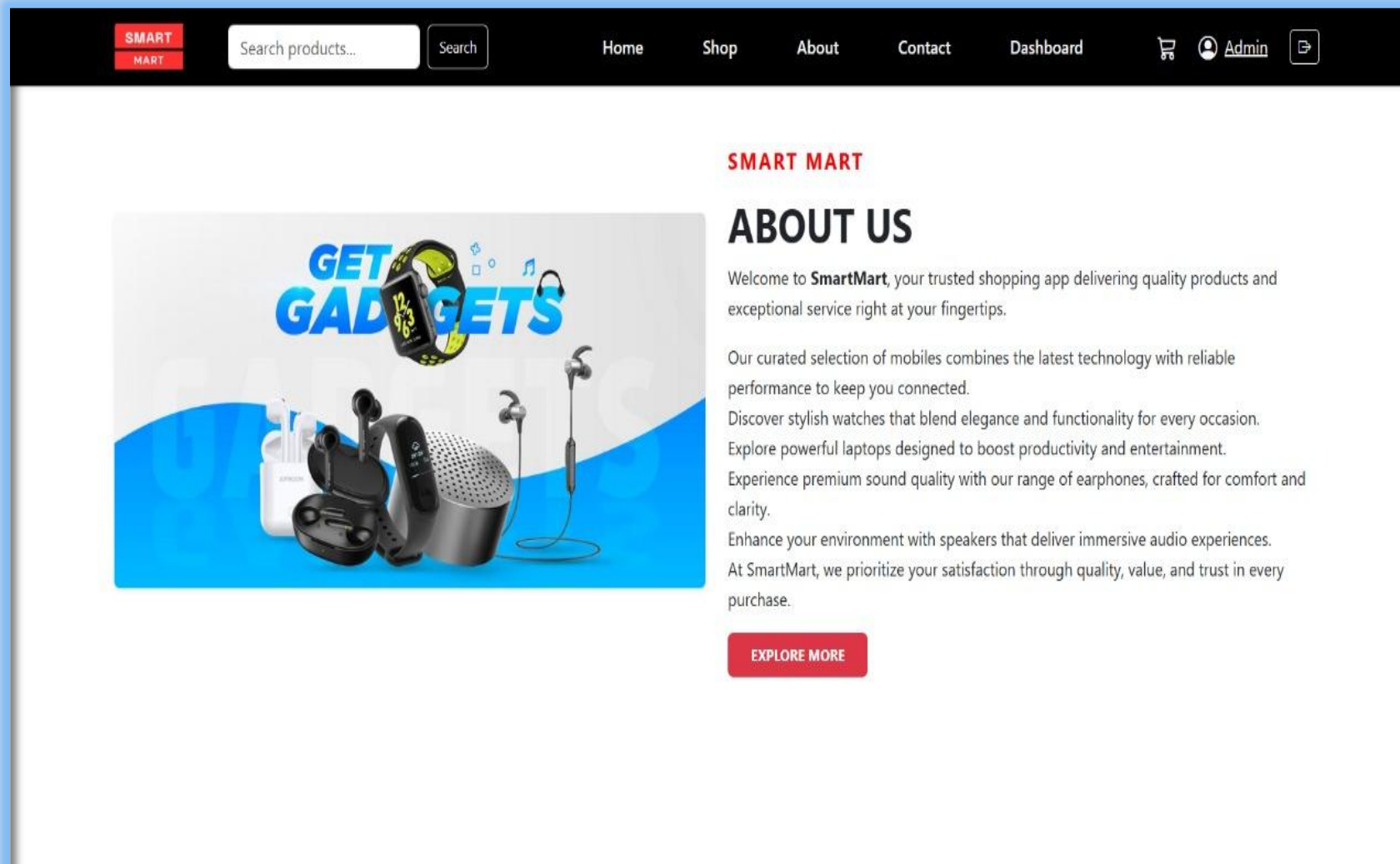
SHOP PAGE



PAYMENT USING RAZORPAY PAGE



ABOUT PAGE



CONTACT PAGE

CONTACT US

Full Name


Email address



Subject

Phone No



Message

ADD TO CART



[Home](#) [Shop](#) [About](#) [Contact](#)  

Your Shopping Cart

Image	Product	Price	Quantity	Total	Remove
	CMF Phone 2 Orange	₹18,398	<input type="button" value="-"/> 1 <input data-bbox="1184 706 1235 749" type="button" value="+"/>	₹18,398	<input type="button" value="Remove"/>
	boAt Strom	₹1,099	<input type="button" value="-"/> 1 <input data-bbox="1184 849 1235 892" type="button" value="+"/>	₹1,099	<input type="button" value="Remove"/>

Cart Summary

Subtotal: ₹19,497

Shipping: Free

Total: ₹19,497

SIGN UP PAGE

Create Account

Full Name

Email Address

Password

Sign Up

Already have an account? [Login](#)

LOGIN PAGE

Welcome Back

Email address

Password

[Forgot Password?](#)

Login

New customer? [Create an account](#)

DATABASE

Atlas

Smart's Org ...

Access Manager

Billing

All Clusters

Get Help

Smart

Project 0

Data Services

Charts

Overview

DATABASE

Clusters

SERVICES

Atlas Search

Stream Processing

Triggers

Migration

Data Federation

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

Goto

SMART'S ORG - 2025-07-27 > PROJECT 0 > DATABASES

Cluster0

VERSION 8.0.12

REGION AWS Mumbai (ap-south-1)

OverviewReal TimeMetricsCollectionsAtlas SearchQuery InsightsPerformance AdvisorOnline ArchiveCmd Line ToolsIn

DATABASES: 1COLLECTIONS: 6

PREVIEWNew Data Explorer

VISUALIZE YOUR DATA

REFRESH

+ Create Database

Search Namespaces

test

- carts
- categories
- orders
- payments
- products
- users

test

LOGICAL DATA SIZE: 31.1KBSTORAGE SIZE: 200KBINDEX SIZE: 412KBTOTAL COLLECTIONS: 6

CREATE COLLECTION

Collection Name	Documents	Logical Data Size	Avg Document Size	Storage Size	Indexes	Index Size	Avg Index Size
carts	0	0B	0B	4KB	1	4KB	4KB
categories	16	778B	49B	36KB	1	36KB	36KB
orders	6	2.44KB	417B	36KB	1	36KB	36KB
payments	24	3.83KB	164B	36KB	1	36KB	36KB
products	62	19KB	314B	52KB	5	228KB	45.6KB
users	28	5.07KB	186B	36KB	2	72KB	36KB

DATABASE

The screenshot displays the MongoDB Atlas web interface. At the top, the header includes the Atlas logo, the organization name 'Smart's Org', and navigation links for 'Access Manager' and 'Billing'. On the right, there are links for 'All Clusters', 'Get Help', and a user profile dropdown.

The left sidebar contains a navigation menu with sections: 'Overview' (selected), 'DATABASE', 'SERVICES', and 'SECURITY'. Under 'DATABASE', there are links for 'Clusters', 'Atlas Search', 'Stream Processing', 'Triggers', 'Migration', and 'Data Federation'. Under 'SECURITY', there are links for 'Quickstart', 'Backup', 'Database Access', 'Network Access', and 'Advanced'. At the bottom of the sidebar, there is a 'New On Atlas' section with a count of 4 and a 'Goto' button.

The main content area is titled 'Overview' and shows the path 'SMART'S ORG - 2025-07-27 > PROJECT 0'. It features a 'Clusters' section with a 'Create cluster' button and a 'Cluster0' tab. Below the tab, there are buttons for 'Connect' and 'Edit configuration', and a 'Data Size: 442.6 KB' indicator. There are also two action buttons: 'Browse collections' and 'View monitoring'. An '+ Add Tag' button is located below these.

Below the 'Clusters' section is an 'Application Development' section with a 'Connect new' button. It contains a card titled 'OPTIMIZE YOUR CONNECTION POOL' with the text 'Use one MongoClient instance per application.' and a close button.

On the right side, there is a 'Toolbar' section with 'Resources (4)' and 'Tips (0)' buttons. Below it is a 'Featured Resources' section with a 'NODEJS' tag and a link to 'Aggregations in Node.js'. There is also a 'Sample Apps' section with 'NODEJS', 'MERN Stack', and 'MEAN Stack' tags. At the bottom right, there is a 'New On Atlas' section with a '4 NEW' tag and a link to 'Learn about the latest feature enhancements on Atlas.'.

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 MongoDB 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

