

DATABASE MANAGEMENT SYSTEM

E-COMMERCE PLATFORM

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ABOUT OUR PROJECT :

- 1 . Secure Scalable Database System
- 2 . Searching Optimization
- 3 . Shopping Cart and Orders
- 4 . Secure Transactions
- 5 . User Friendly Shopping Experience



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Project Scope :

Technology Stack:



Backend

- Python - Django

Frontend

- HTML
- Tailwind CSS



Database

- MySQL

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PROJECT SCOPE :

PROJECT KEY FEATURES



01

User Account

Allow users to register, log in, view their profile, and securely manage their information.

02

Product Listings

Display product information, categorized and searchable by different attributes (e.g., category, price).

03

Cart Functionality

Enable users to add items to a cart, view contents, and proceed to checkout.

04

Purchases and Order History

Users can complete purchases and view a history of transactions.

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DATA MANAGEMENT :



- Data Consistency and Integrity



- Efficient Data Retrieval and Storage



- Scalable and Modular Schema Design



- Data Security and Confidentiality

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Security Measures :

- Data Encryption
- Secure Authentication
- Access Control
- Data Validation and Sanitization
- Error Handling and Logging



Data Encryption



Error Handling and Logging



Secure Authentication

Thank You

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Conclusion :

This project creates a secure, scalable e-commerce database system, enabling essential functions like user accounts, product management, and secure transactions. Reflecting real-world e-commerce needs, it emphasizes data integrity, security, and efficiency, providing a robust foundation for online retail platforms to deliver reliable, user-friendly shopping experiences.

ANY
QUESTIONS?

