



Datadash – an E-Commerce Database System

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PROBLEM

Existing database systems struggle with inefficiencies, data security issues, handling large volumes of data, and integration challenges, leading to poor product inventory management, customer data, orders, and transactions. Some challenges included Inefficiency, data security issues, difficulty managing large data volumes, and lack of integration between system components.

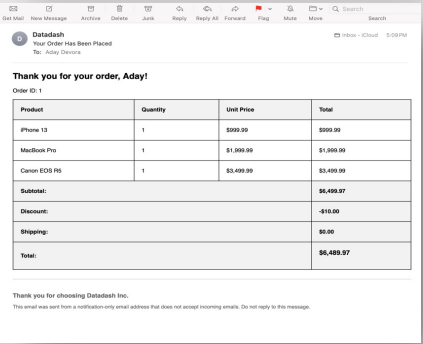
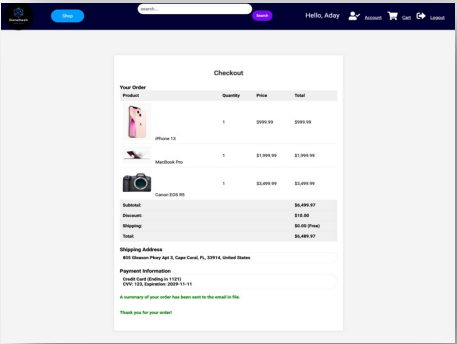
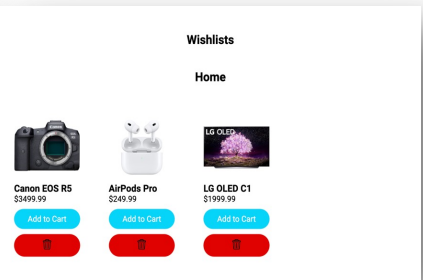
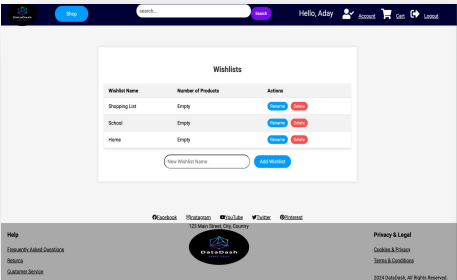
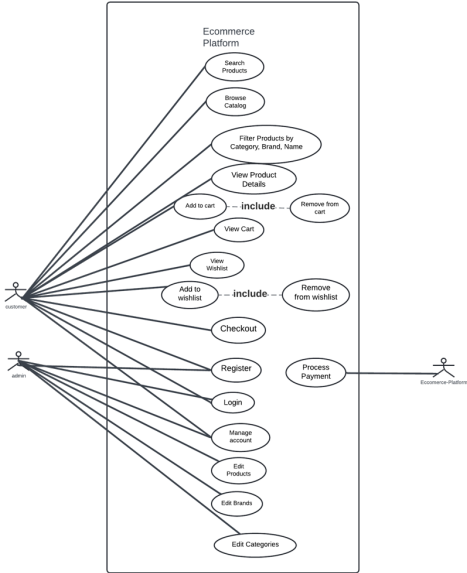
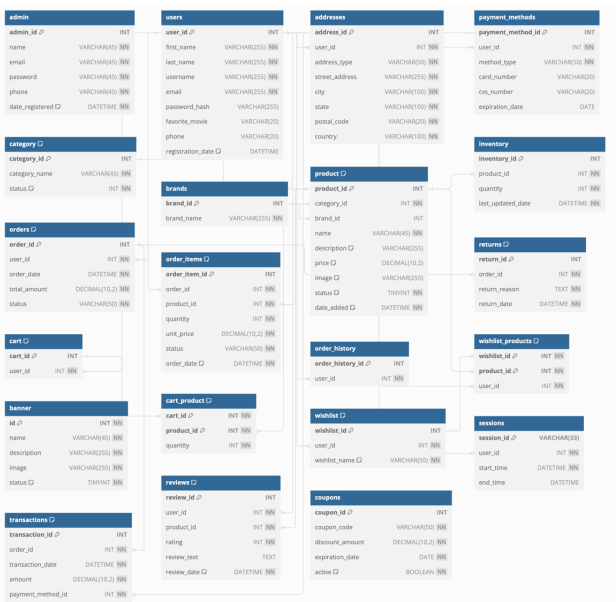
IMPLEMENTATIONS AND REQUIREMENTS

Functional: Handle orders, products, shipments, customer data, integrate with payments systems.

Non-Functional: Scalable, reliable, secure, and user-friendly.



SYSTEM DESIGN



CONTRIBUTIONS

I implemented a Wishlist page, enabling users to save, create, delete, and edit wishlists, with the ability to add products directly from the product details page.

I also implemented a discount feature allowing users to submit one-time-use coupons at checkout, which are deactivated after use.

Additionally, I implemented an email notification system, sending users a summary of their purchased orders. I was involved in both backend and frontend development, handling the logic, implementation, and design of these features.

SUMMARY

We've made significant progress by developing an e-commerce database system. Although incomplete, we've added key features such as user authentication, dynamic inventory, catalogs, wishlists, filtering, notifications, etc. Our future goal is to ensure the system meets all user needs efficiently. Our team is committed to thorough testing, incorporating user feedback, and ensuring compatibility across all devices.

ACKNOWLEDGMENTS

The material presented in this poster results from our teamwork and Masoud Sadjadi's support. We thank Masoud Sadjadi for the assistance and mentorship we received throughout the senior design project.