

# **SEMESTER II 2024/2025**

# CSE3023 WEB-BASED APPLICATION DEVELOPMENT

## TITLE: ONLINE SHOPPING SYSTEM

# **GROUP 1**

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#### Introduction

The Online Shopping System is a digital platform designed to revolutionize the e-commerce experience by providing a seamless, secure, and user-friendly marketplace. It caters to both customers and businesses by addressing common challenges in online retail such as accessibility, inventory management, and payment security. By leveraging modern web technologies the system aims to enhance convenience for shoppers while offering robust tools for sellers to manage their products and orders efficiently. This project aligns with the growing demand for digital shopping solutions, ensuring scalability and adaptability to future trends in the e-commerce industry.

#### **Problem Statement**

Traditional shopping methods and outdated online platforms often struggle with inefficiencies, including limited accessibility, manual inventory tracking, and insecure payment options. Customers face difficulties comparing products while sellers grapple with stock management and order processing errors. The lack of a centralized automated system leads to poor user experiences and operational bottlenecks. This project aims to address these issues by introducing an integrated Online Shopping System that streamlines product discovery, order management, and secure transactions, ultimately benefiting both end-users and administrators.

#### **System Objectives**

- To analyze the current challenges in online shopping systems such as limited
  accessibility, inefficient inventory management, and insecure payment options, by
  studying user behavior and industry trends to establish key requirements for an
  improved e-commerce platform.
- To design a user-friendly and responsive interface for the Online Shopping System
  that enhances product discovery through advanced search filters, personalized
  recommendations, and seamless navigation, while ensuring secure and intuitive
  checkout processes for customers.

3. **To develop** a robust and scalable Online Shopping System with integrated modules for user management, product cataloging, and order processing, incorporating secure payment gateways and real-time inventory tracking to provide a reliable and efficient shopping experience for both customers and administrators.

## **System Scopes**

- **In Scope:** User registration, product catalog management, order processing, and role-based access control (Admin/Customer).
- Out of Scope: Physical logistics, third-party vendor integrations, and advanced AI recommendations.
- Target Users: Customers and administrators.

## **System Significance**

The system bridges gaps in the e-commerce ecosystem by combining usability with robust backend functionality. For customers, it offers convenience and trust; for businesses, it reduces operational overhead through automation. By addressing pain points like inventory mismanagement and payment security the platform fosters growth for small/medium retailers while elevating the shopping experience. Its modular design ensures scalability for future enhancements like AI-driven recommendations or multi-vendor support.

# **System Design**

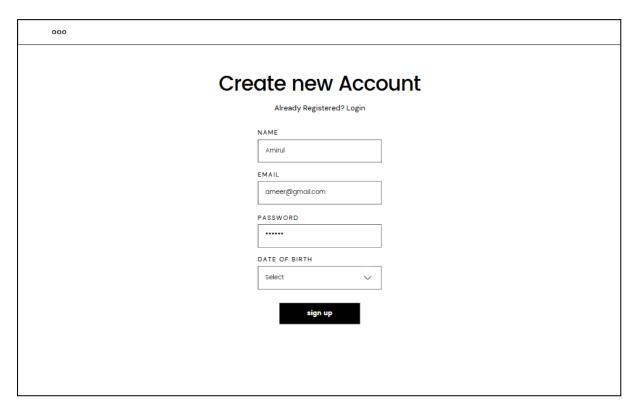


Figure 1: Sign-up page

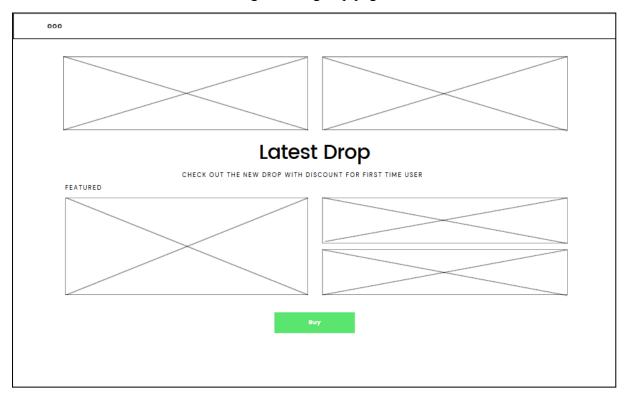


Figure 2: Home page

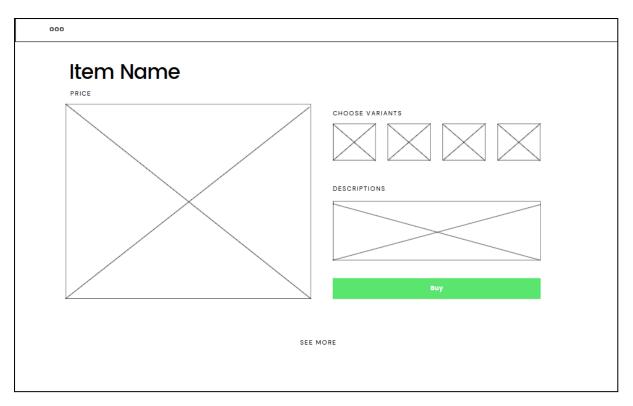


Figure 3: Product details page

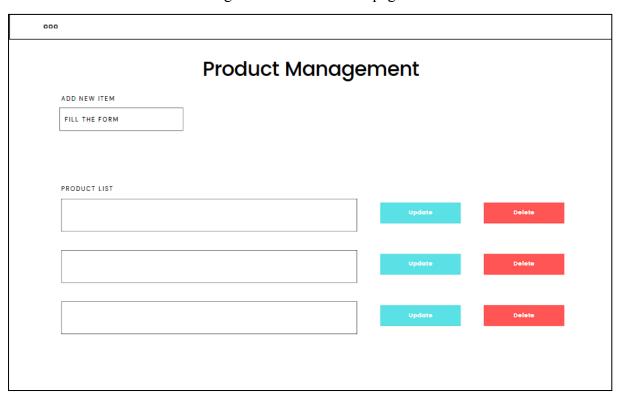


Figure 4: Product management page for admin

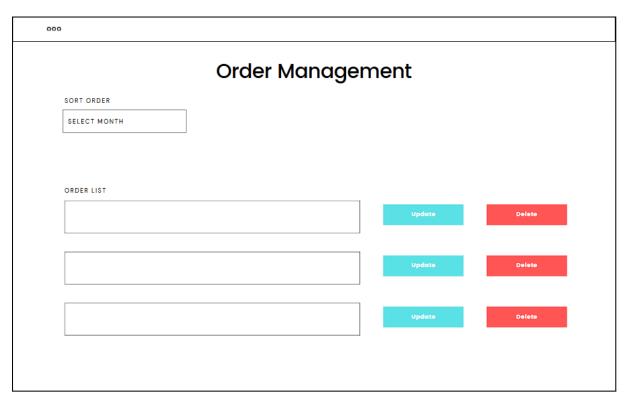


Figure 5: Order management page for the customer

#### Conclusion

The Online Shopping System represents a comprehensive solution to modern e-commerce challenges, balancing user needs with technical feasibility. Automating critical processes and prioritizing security sets a foundation for sustainable digital retail operations. Future iterations could expand its capabilities but the current scope delivers immediate value to all stakeholders proving that efficiency and customer satisfaction can coexist in the digital marketplace.

## **Appendix**

Figure 6: Code for home page

Figure 7: Code for login page

Figure 8: Code for admin to edit products