Digital Commerce Empowerment Ecosystem (DCEE)

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Contents

Abstract

The Digital Commerce and Empowerment for Entrepreneurs (DCEE) project supports small and local Indian businesses by offering digital solutions that boost operational efficiency, customer trust, and compliance. Through a user-friendly platform, DCEE provides tools for demand prediction, secure rural payment processing, and customer support. The project leverages the RoBERTa model for predictive analytics, enabling businesses to anticipate market trends and optimize inventory management. By addressing the unique challenges of rural and local entrepreneurs, DCEE bridges the digital gap, empowering them to thrive in a competitive digital landscape.
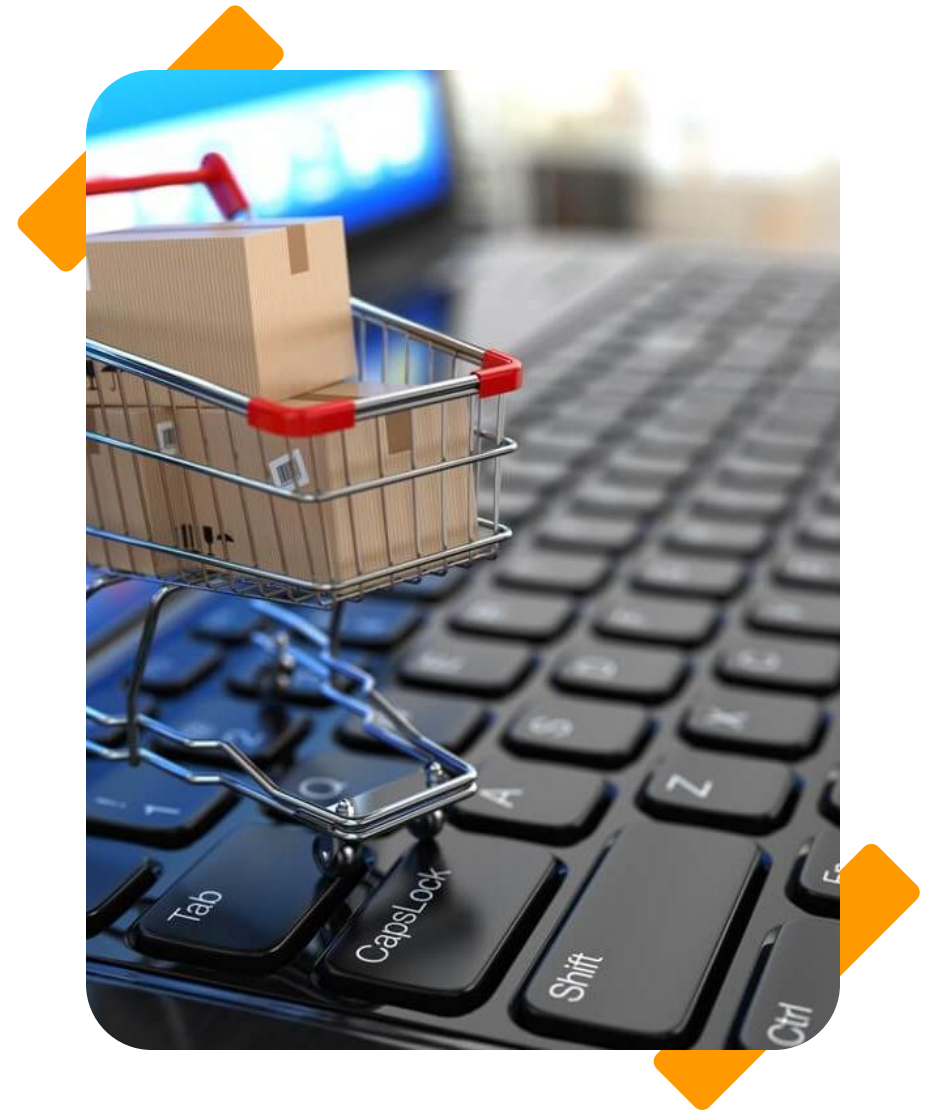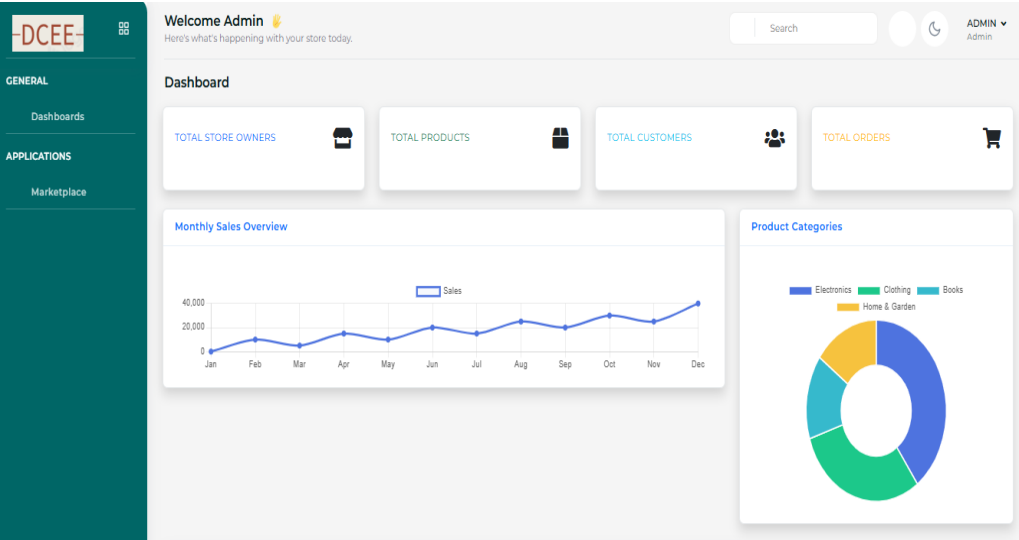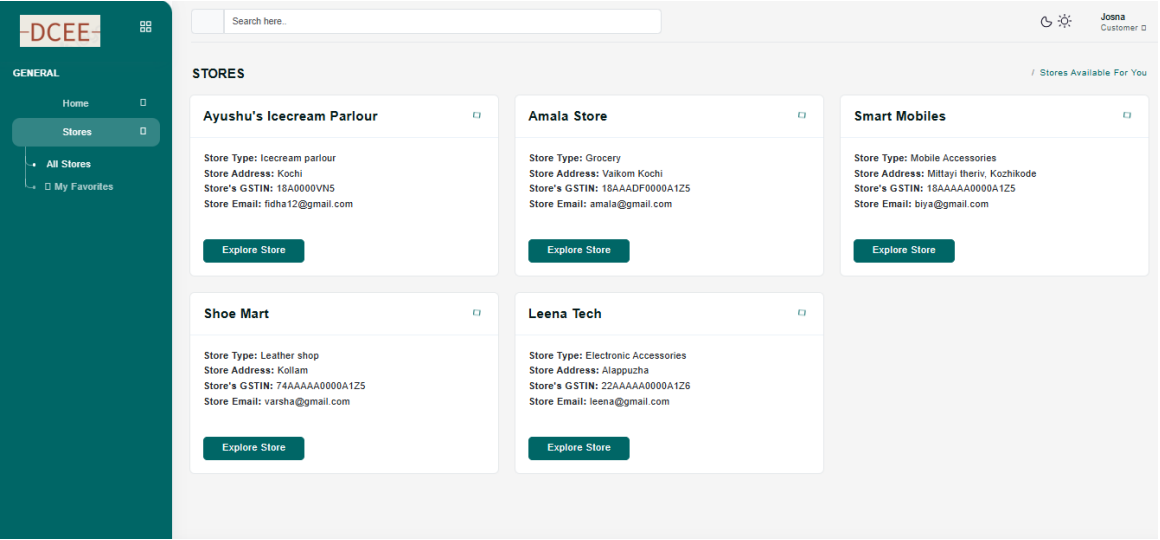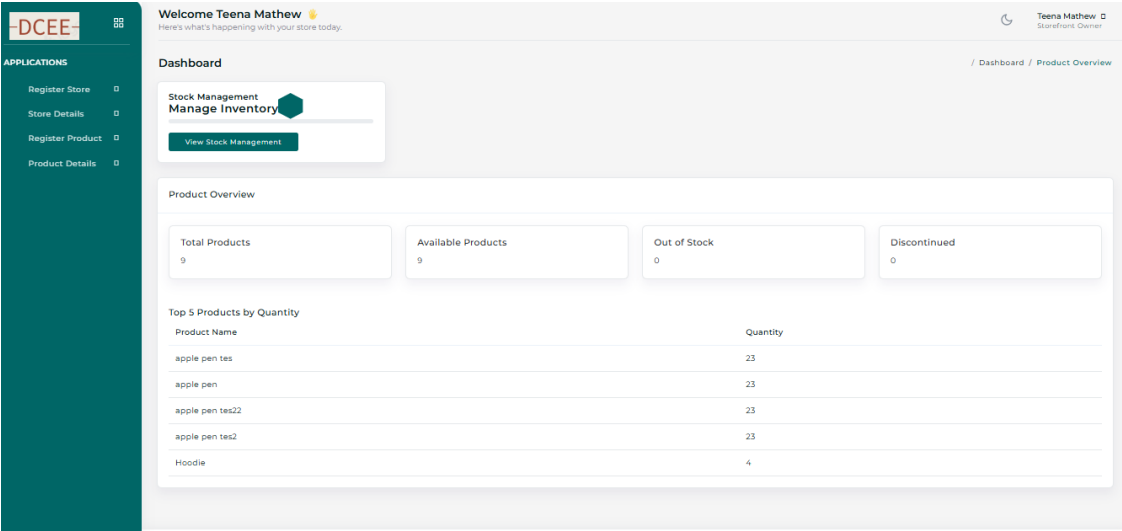
USERS

ADMIN

CUSTOMER

STOREFRONT OWNER

Admin

Customer

Storefront Owner

Screenshots

Dashboard

Login

Screenshots

Register

Customer Dashboard

Screenshots
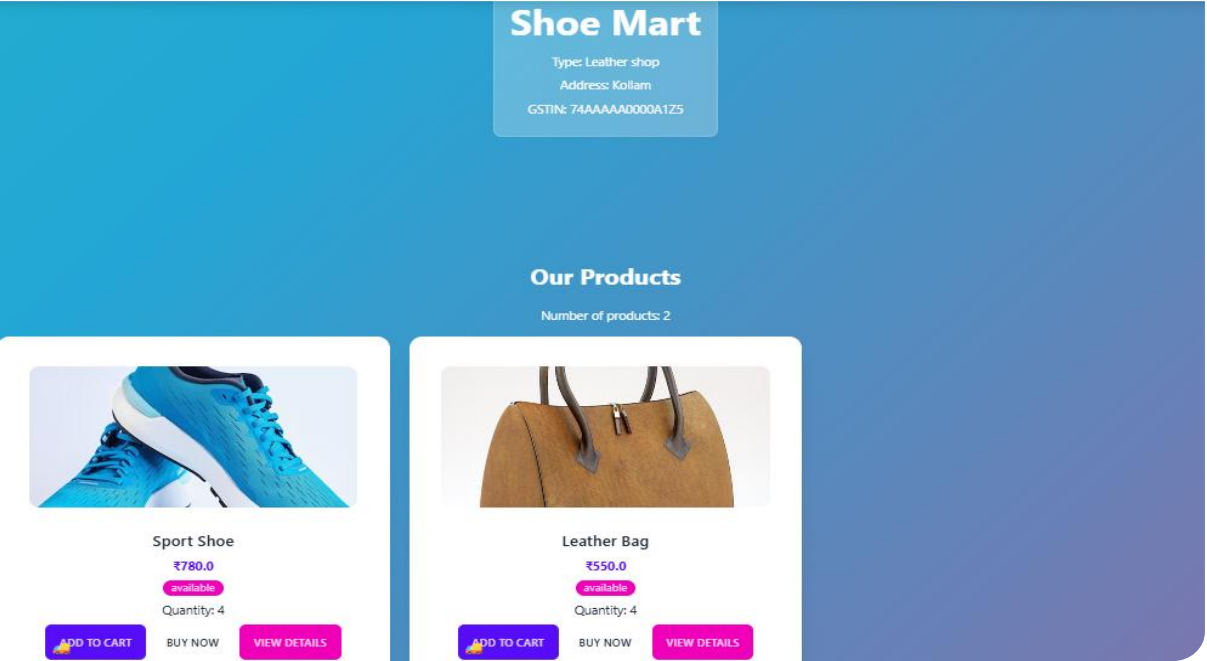
Product View
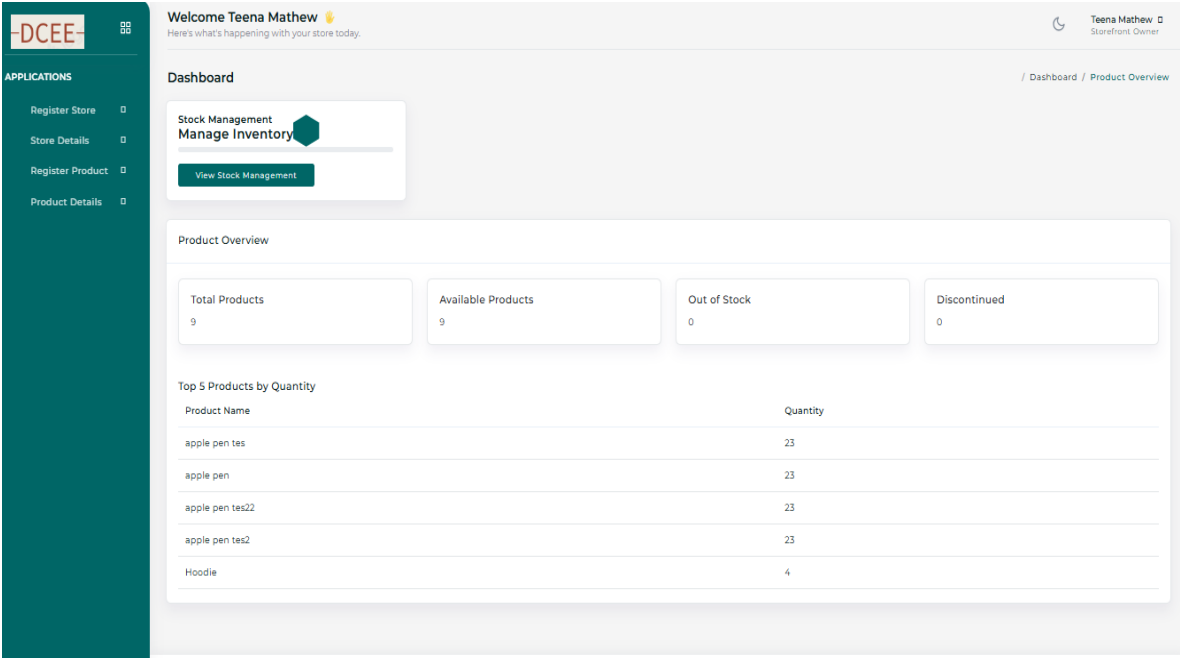
Storeowner Dashboard

Screenshots

Product List

Admin Dashboard

Screenshots
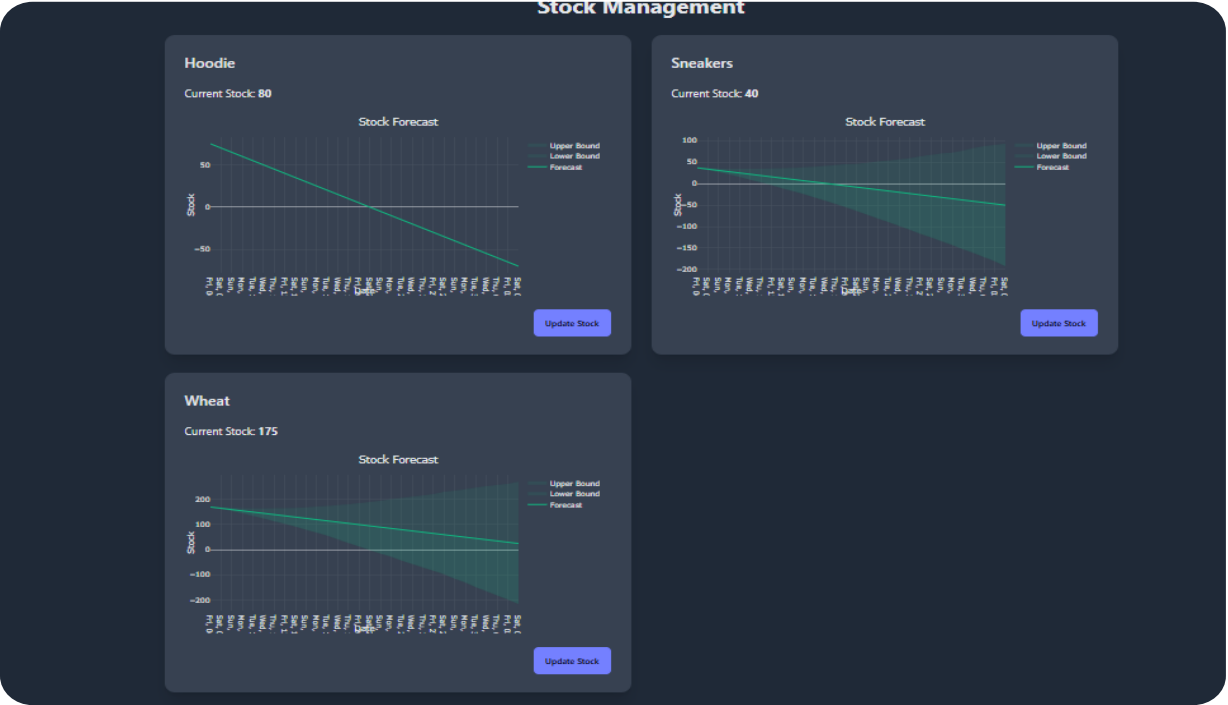
Stock Prediction - ML

Cart

Screenshots
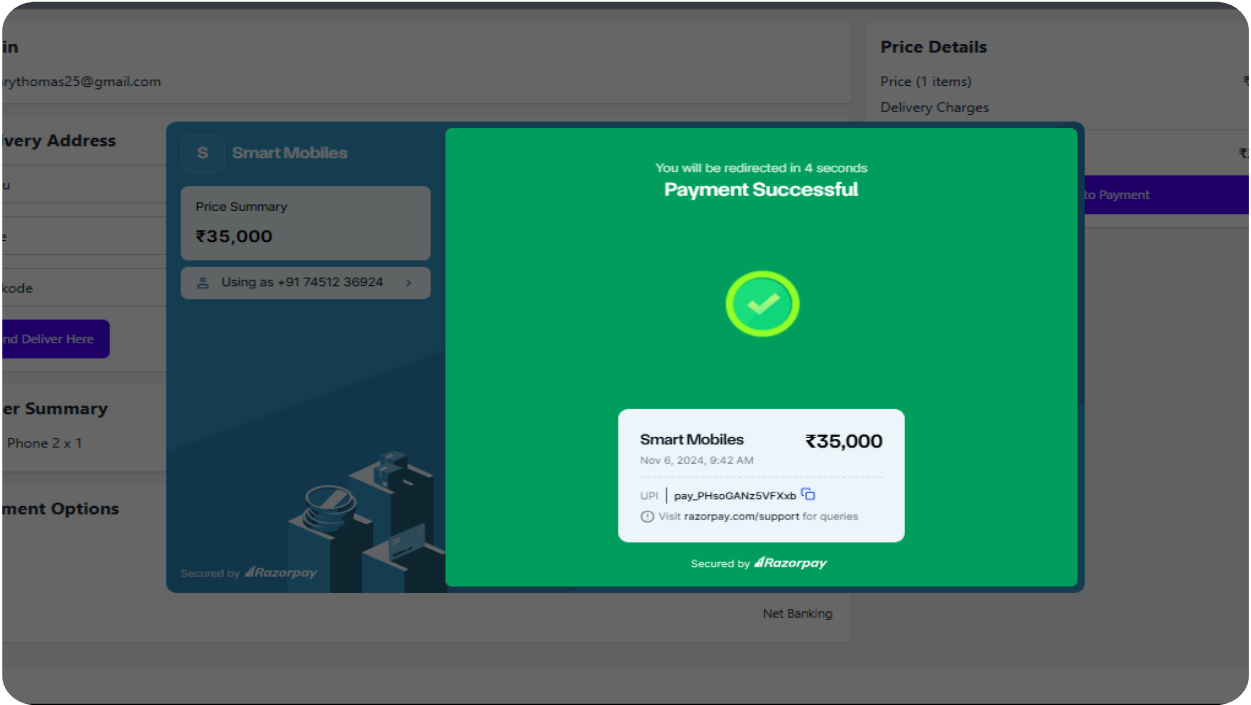
Payment
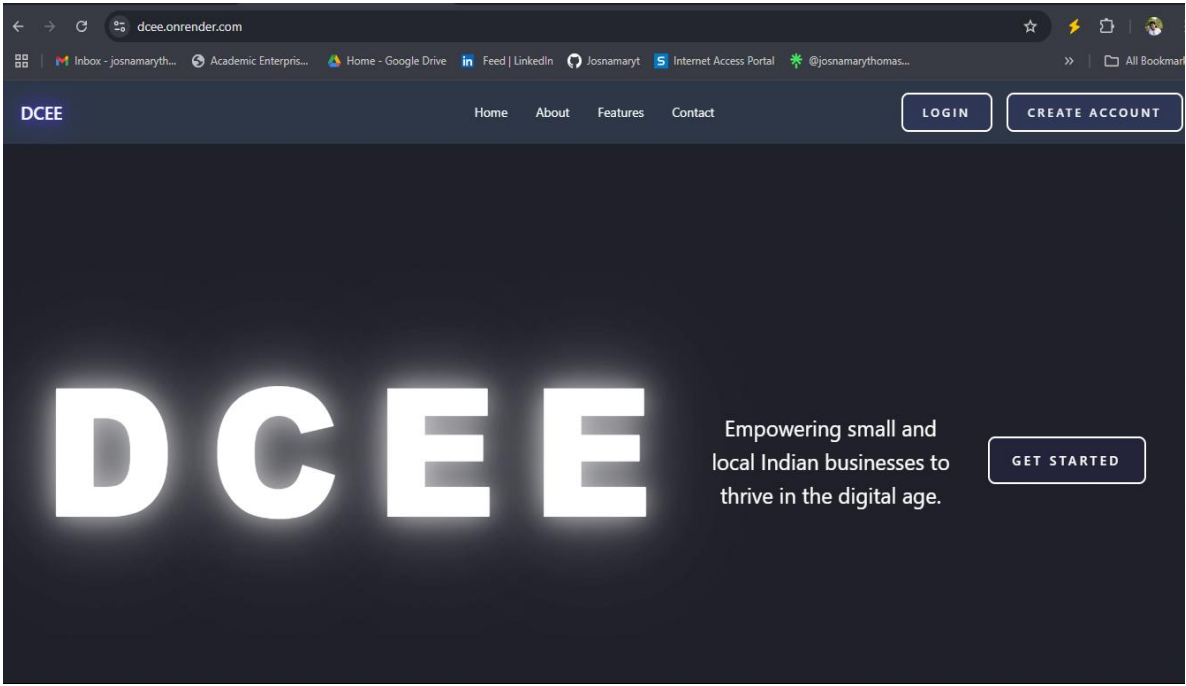
Hosted Site

Implementation

Stock Prediction
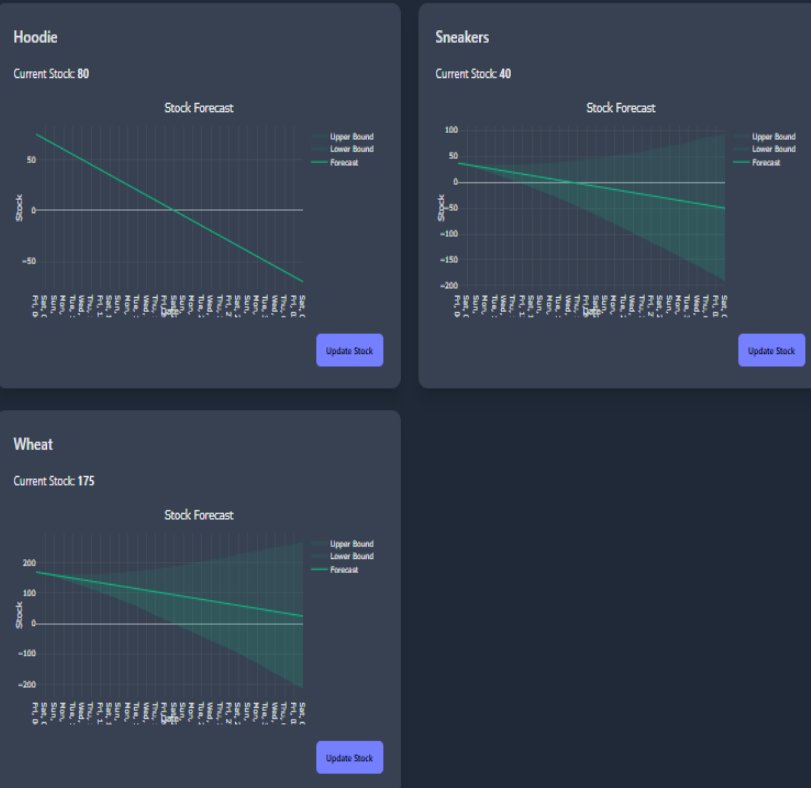
Modules

Auth Module

The Auth module handles all user authentication and access-related features. It manages user registration and login to ensure secure access. Additionally, it provides password recovery options through "Forgot Password" and password updates for user account security. Users can also request a reset email for verification, ensuring only authorized access to accounts.

Platform Module

The Platform module is the main operational area of the application, providing users with personalized dashboards and managing user profiles for Owners, Admins, and Customers. It includes the Storefront feature, where owners can register new stores, add resources (such as products or services), and delete items as necessary.

Payment Module

The Payment module facilitates secure money transactions, allowing users to send and receive payments. This module integrates with various payment gateways to ensure a smooth, reliable, and safe experience for processing financial transactions within the platform. It supports multiple payment methods, contributing to user convenience and increasing customer trust.

UML Diagrams

Use Case Diagram
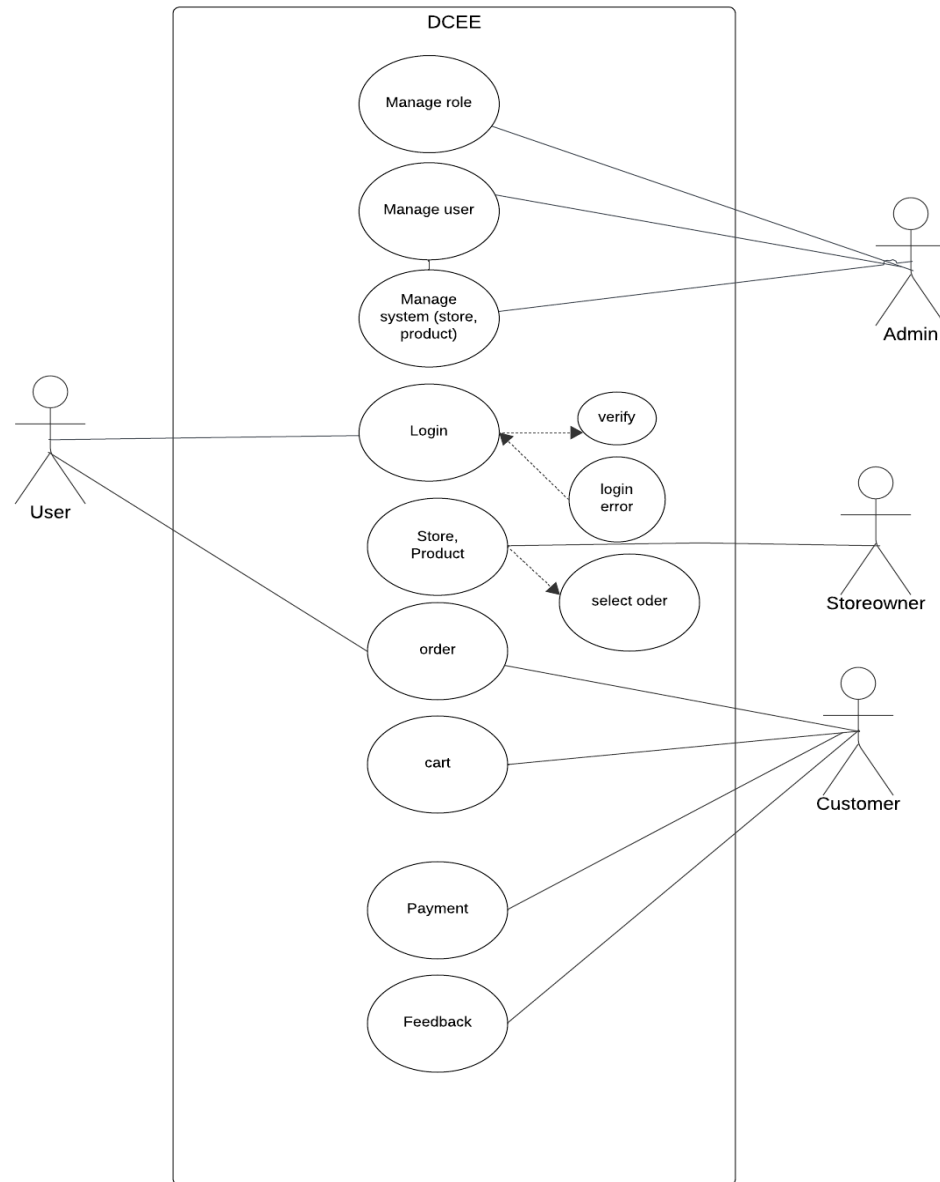
UML Diagrams

Sequence Diagram
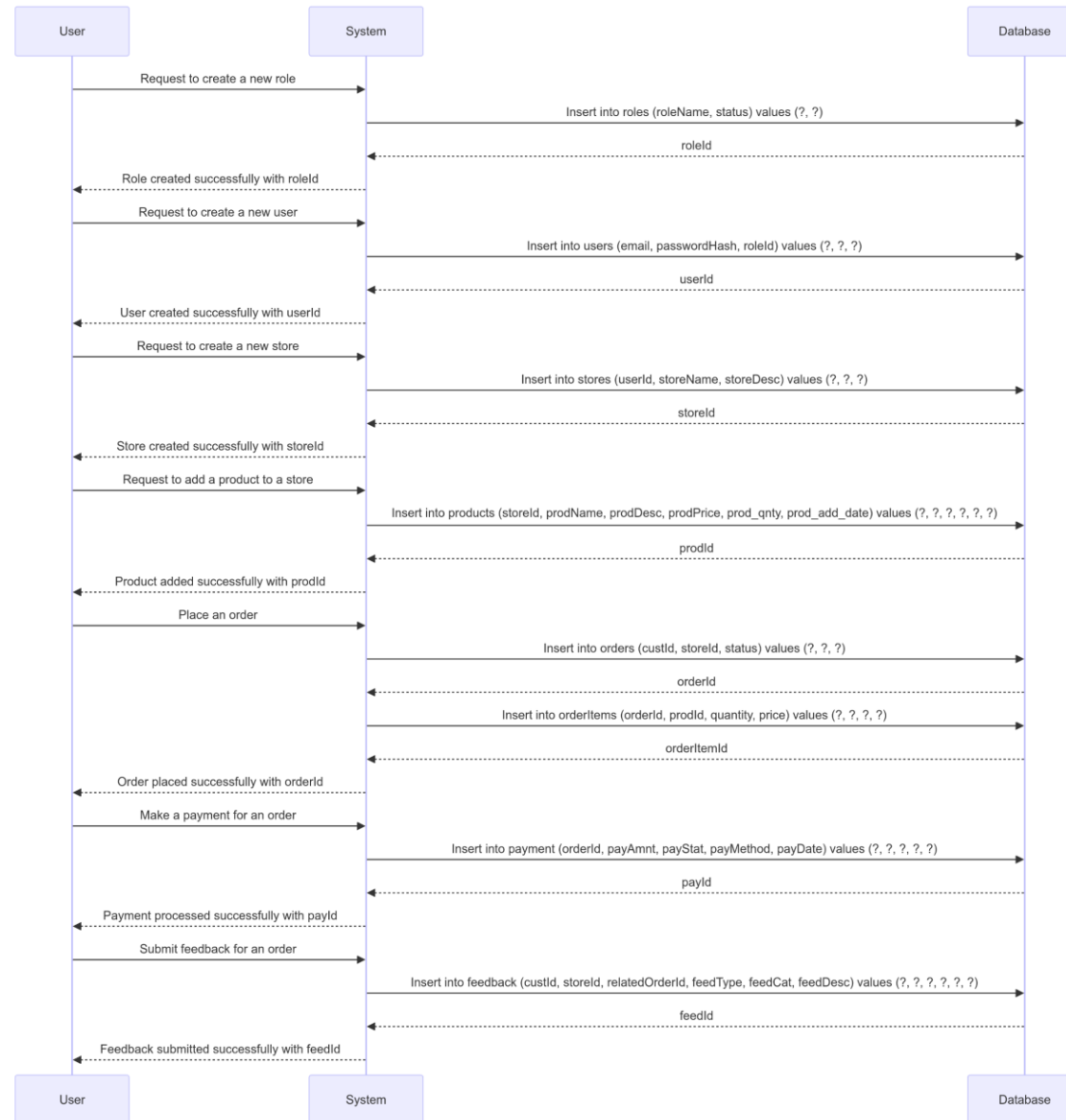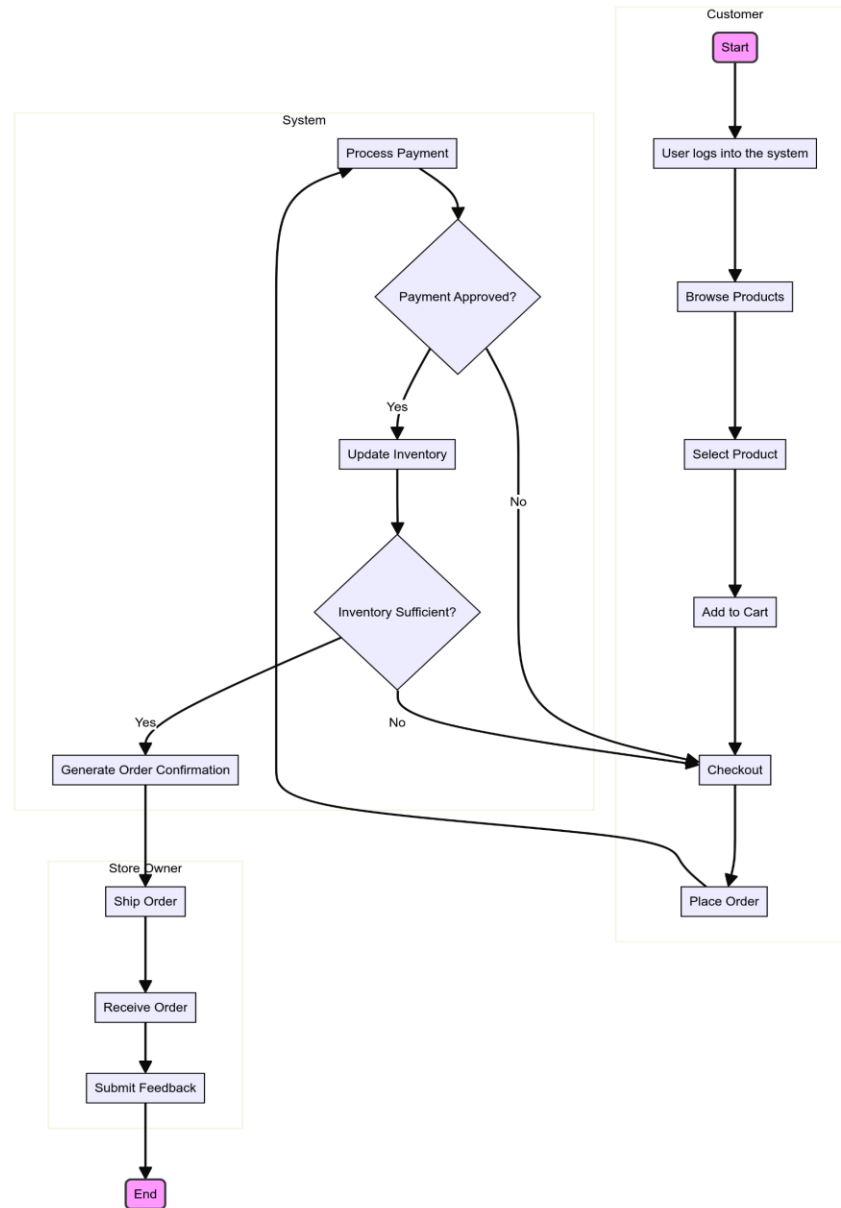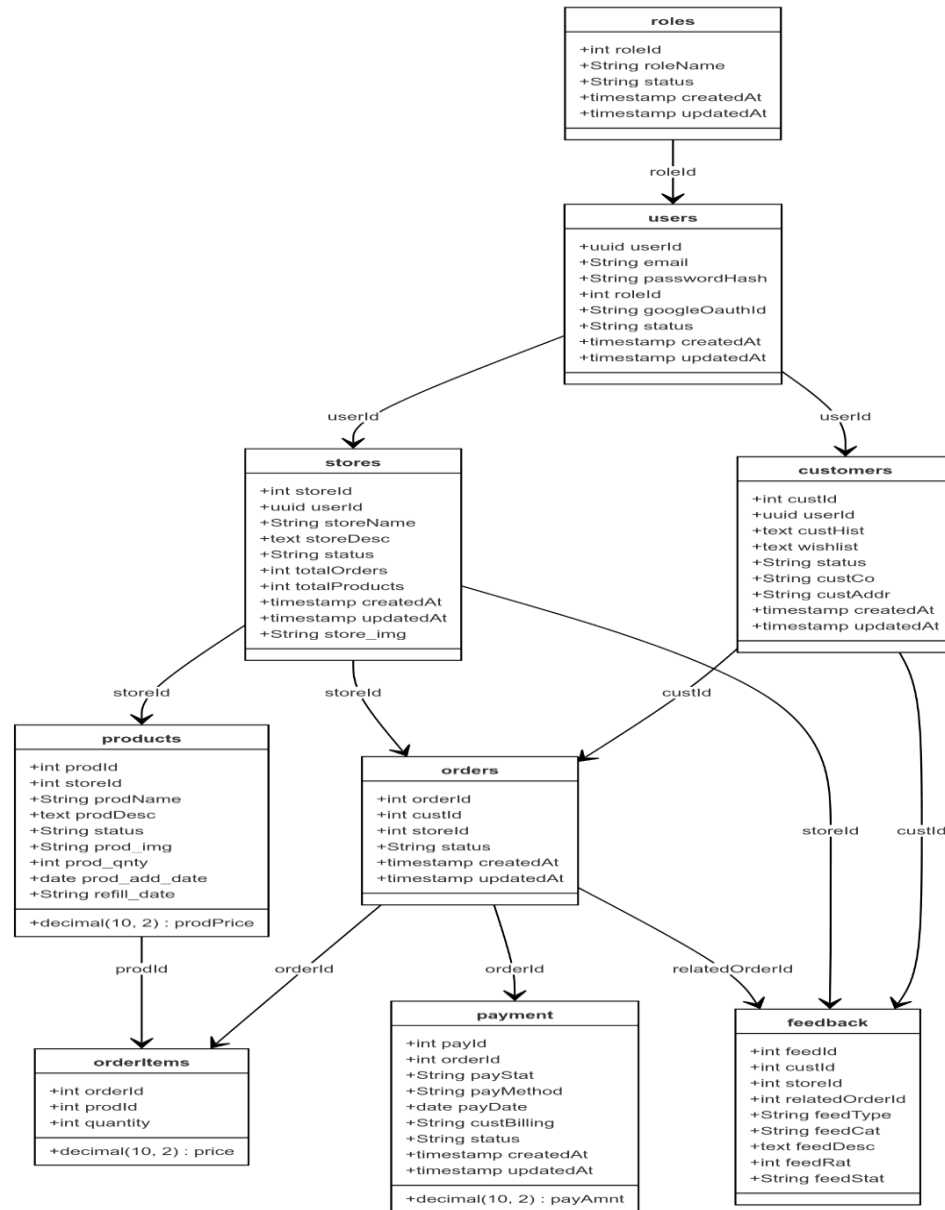
UML Diagrams
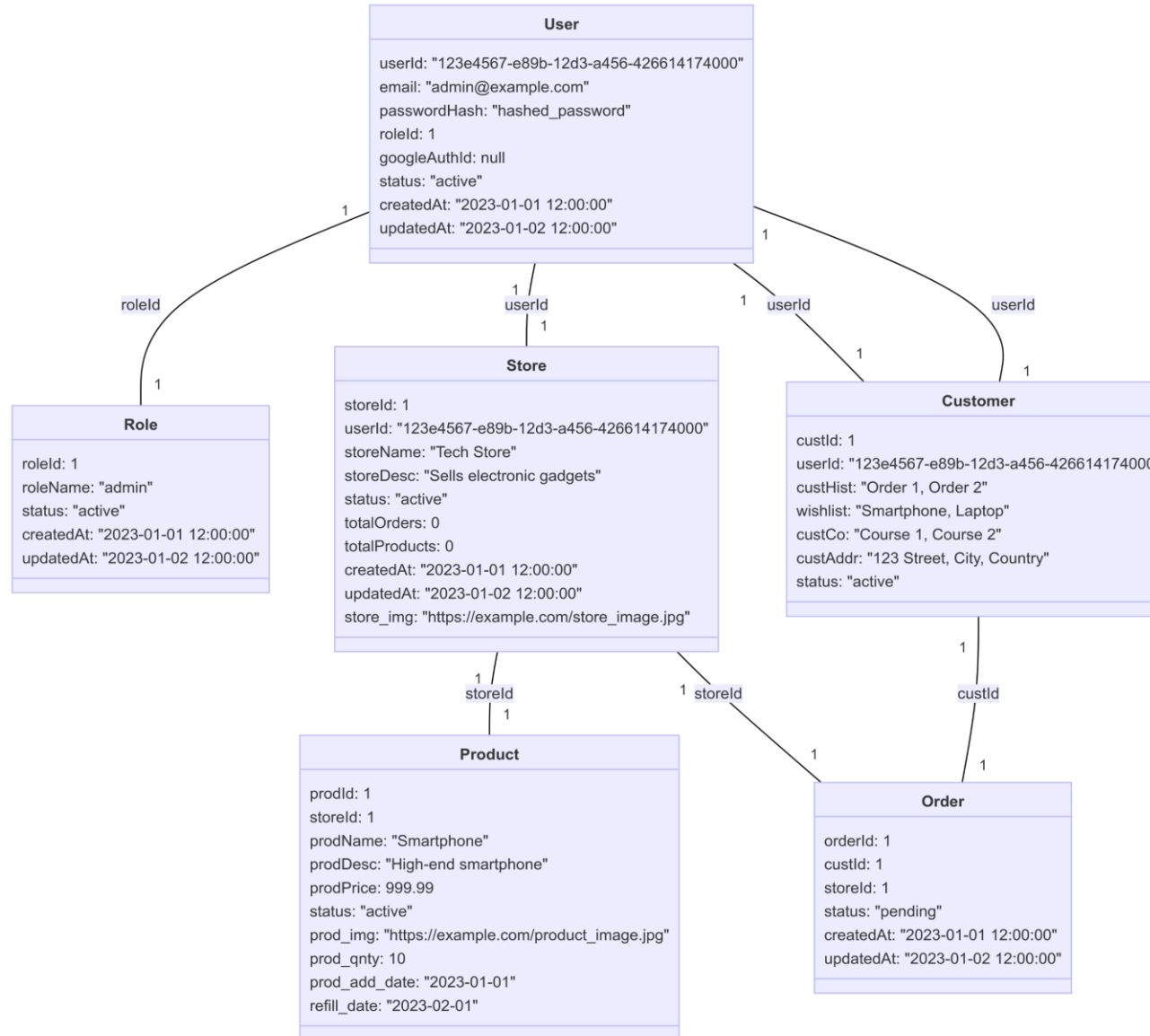
Activity Diagram

UML Diagrams

Class Diagram

UML Diagrams

Object Diagram

Conclusion

The project successfully addresses the critical needs of small businesses in today's digital landscape by offering a robust platform that combines user-friendly features with essential tools for managing digital storefronts. By integrating modules for secure authentication, dynamic storefront management, and reliable payment processing, the system provides a comprehensive solution for business owners and customers alike. This project not only streamlines operational tasks but also strengthens digital accessibility and security, making it a valuable asset for enhancing business efficiency and customer engagement. The platform's potential for scalability and adaptability ensures its relevance as businesses continue to evolve and adapt to digital transformation trends.

thanks!