



# Digital Commerce Empowerment Ecosystem (DCEE)

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# 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

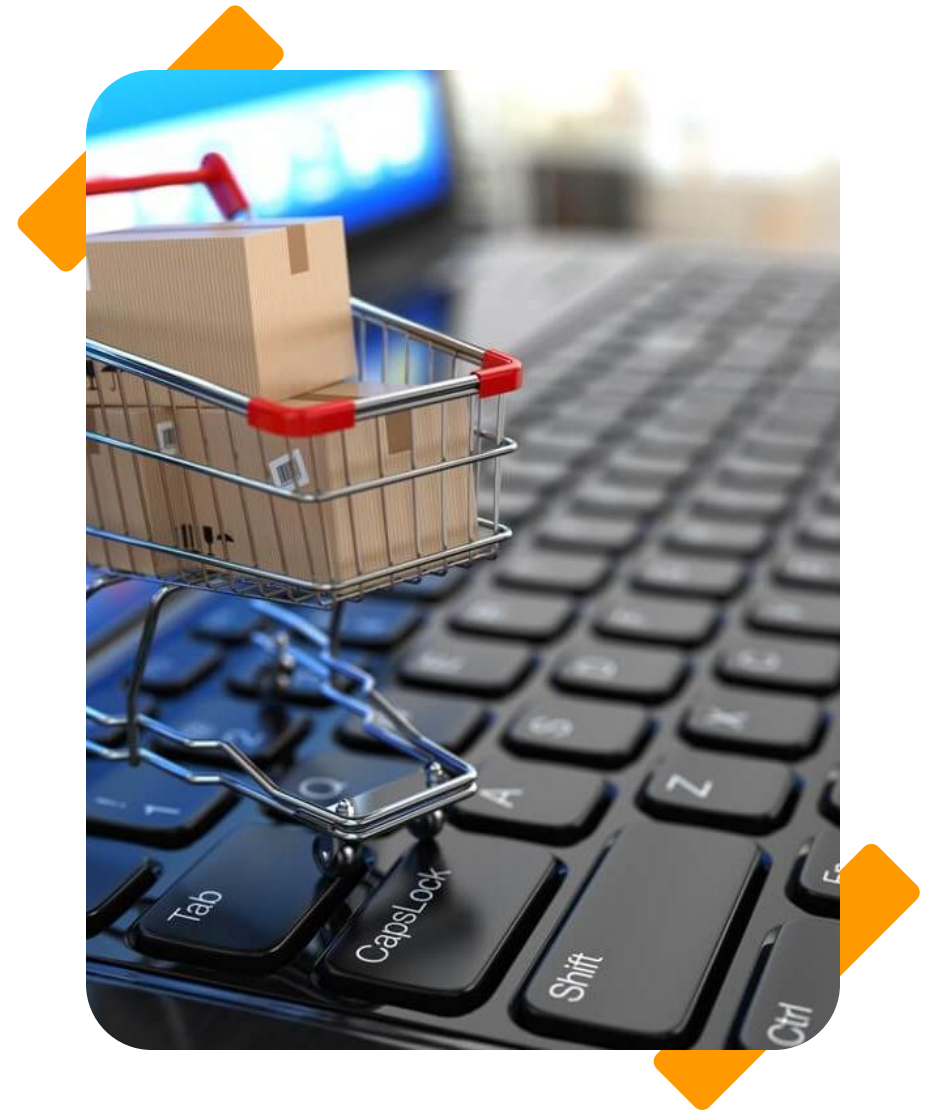
ADMIN



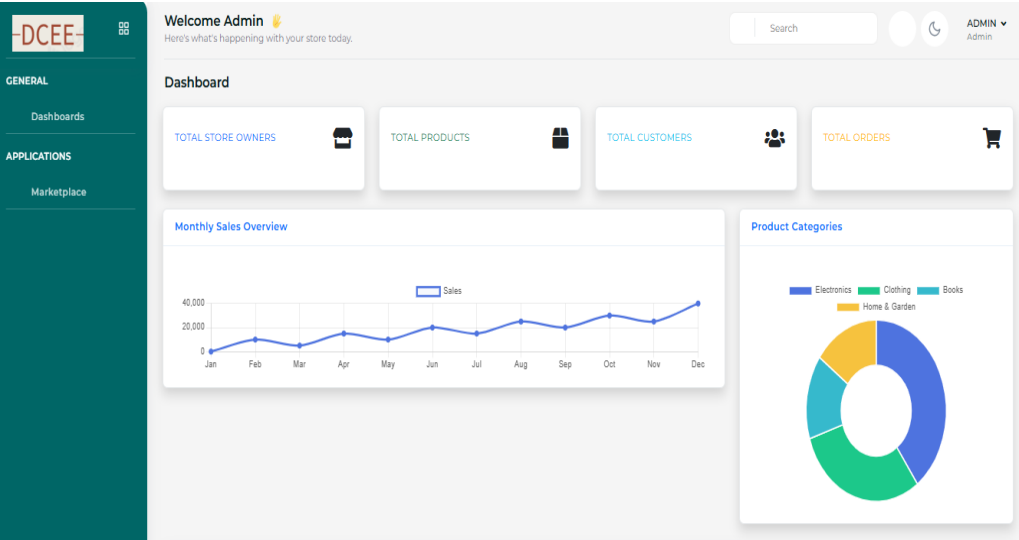
CUSTOMER



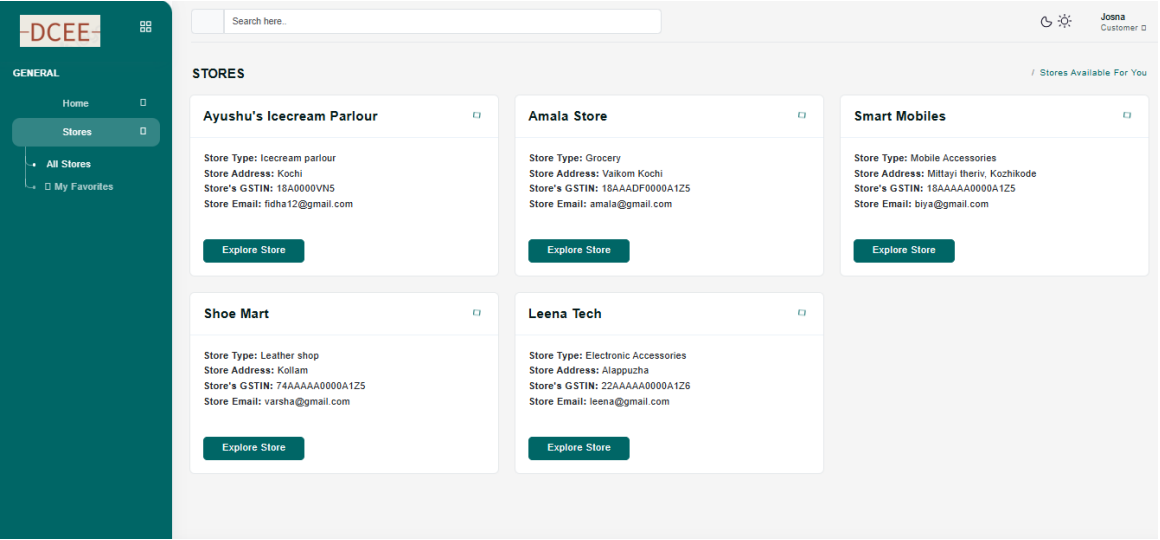
STOREFRONT  
OWNER



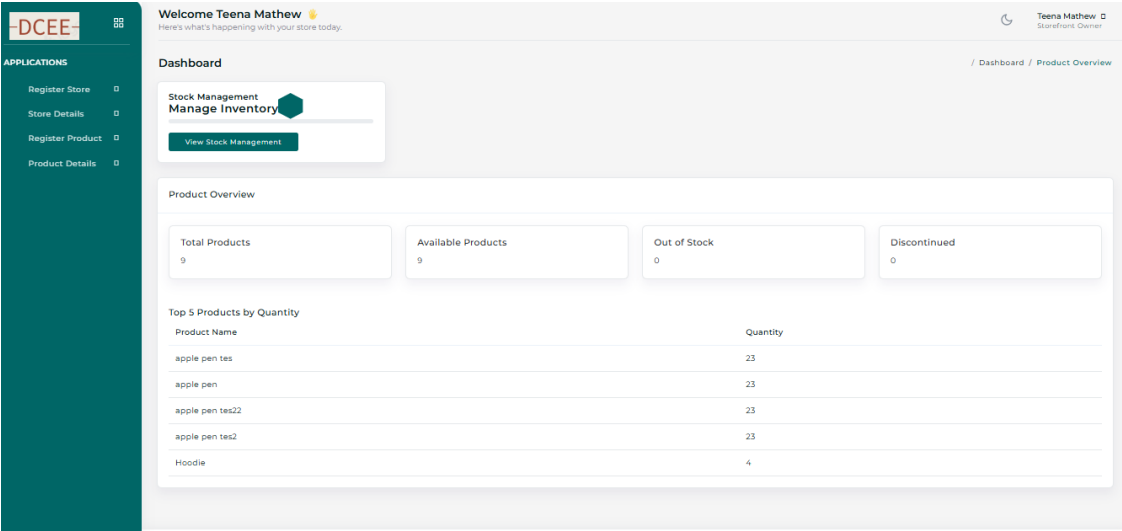
# Admin



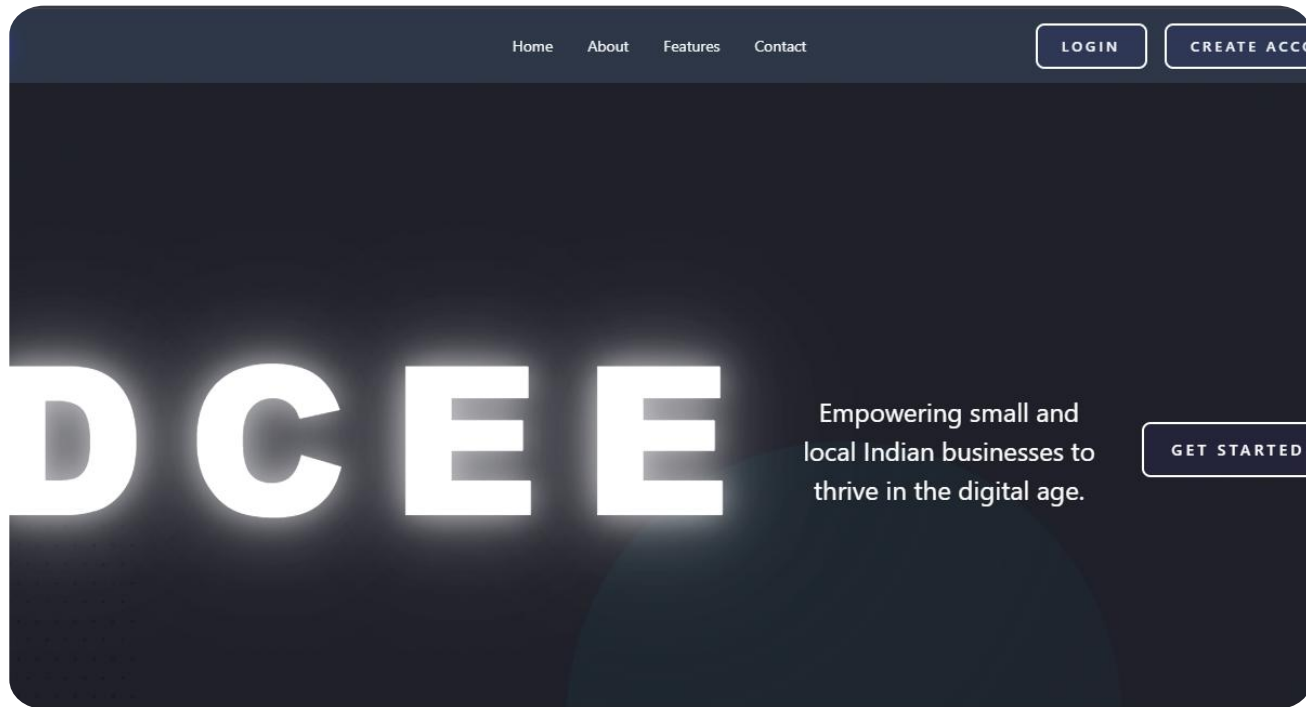
# Customer



# Storefront Owner



# Screenshots




Dashboard



Login

The screenshot shows the login page of the DCEE website. The header is light gray with the DCEE logo. The main content area is white. It features a 'Sign in to account' section with the text 'Enter your email & password to login'. Below this are input fields for 'Email Address' (with a placeholder 'email') and 'Password' (with a placeholder 'password' and a 'Show' button). There is a checkbox for 'Remember Me' and a 'Sign in' button. A link for 'Forgot Password?' is also present. Below the login section, there is a section for 'Or Sign in with' with a 'Google' button. At the bottom, there is a link for 'Don't have an account? Create Account'.

# Screenshots



DCEE

Create your account

Enter your personal details to create account

Your Name

First name

Last name

Email Address

Test@gmail.com

Role

Select your role

Password

show

Confirm Password

show

☐ Agree with Privacy Policy

Create Account

Or signup with

Google

Already have an account? Sign in

Register

DCEE

GENERAL

Home

Stores

All Stores

My Favorites

Search here

Josna Customer ID

STORES

Ayushu's Icecream Parlour

Store Type: Icecream parlour

Store Address: Kochi

Store's GSTIN: 18A0000VNS

Store Email: fidha12@gmail.com

Explore Store

Amala Store

Store Type: Grocery

Store Address: Vaikom Kochi

Store's GSTIN: 18AAADF0000A1Z5

Store Email: amala@gmail.com

Explore Store

Smart Mobiles

Store Type: Mobile Accessories

Store Address: Mittayi theriv, Kozhikode

Store's GSTIN: 18AAAAA0000A1Z5

Store Email: biya@gmail.com

Explore Store

Shoe Mart

Store Type: Leather shop

Store Address: Kollam

Store's GSTIN: 74AAAAA0000A1Z5

Store Email: varsha@gmail.com

Explore Store

Leena Tech

Store Type: Electronic Accessories

Store Address: Alappuzha

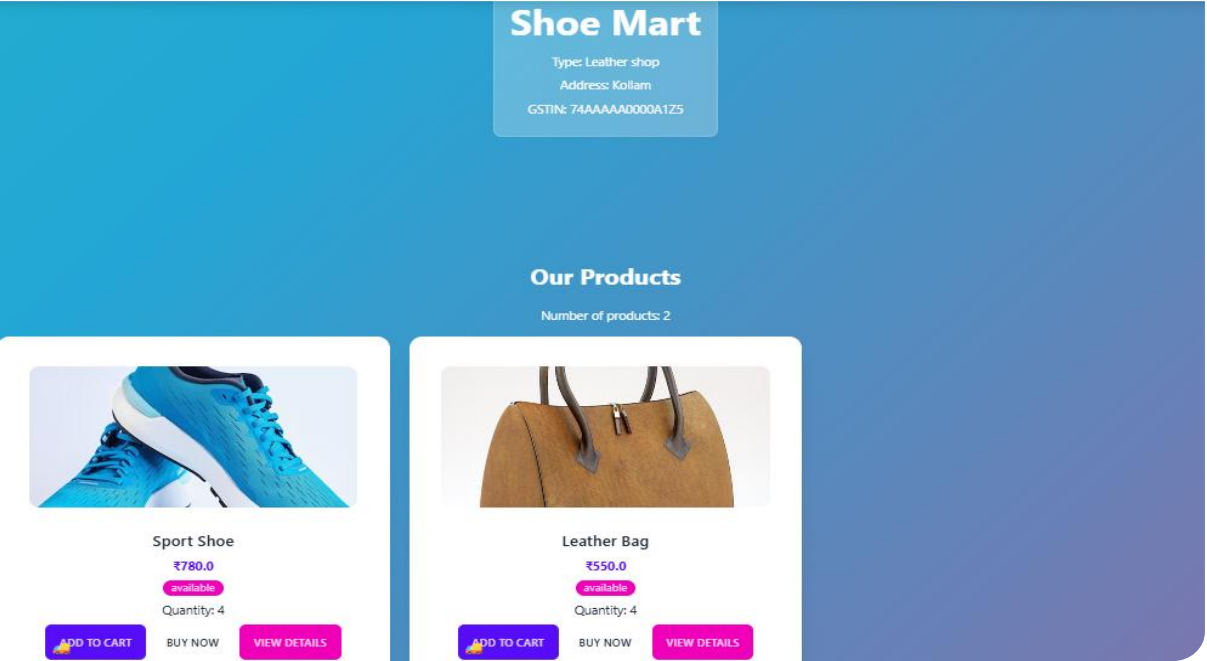
Store's GSTIN: 22AAAAA0000A1Z6

Store Email: leena@gmail.com

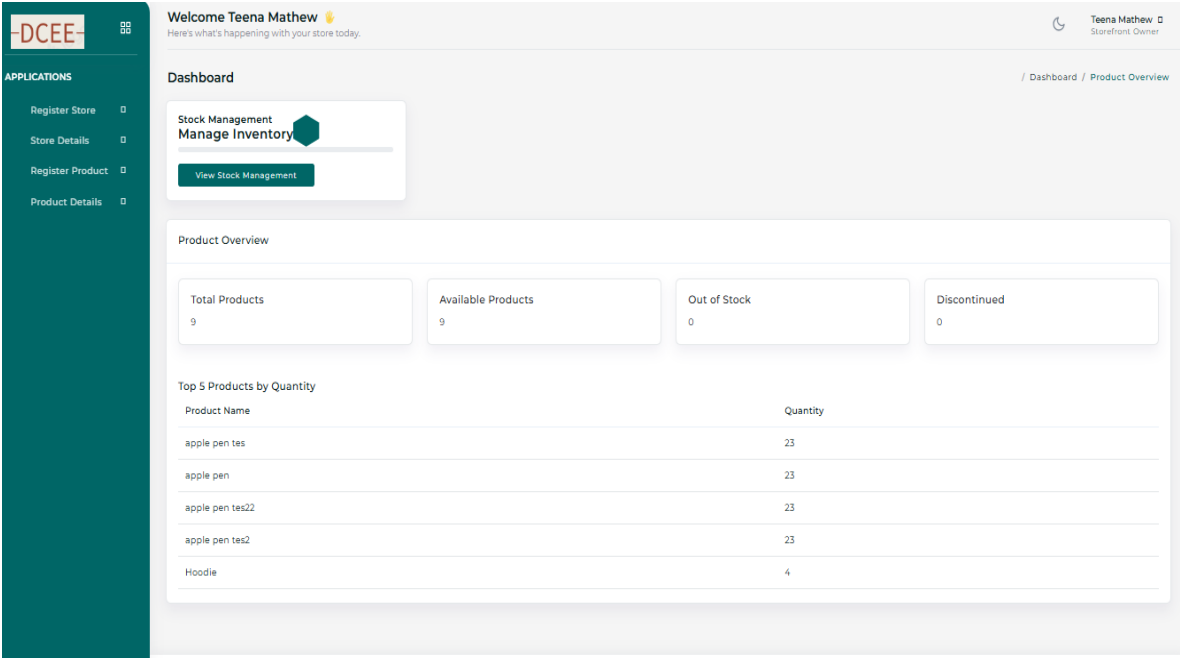
Explore Store

Customer Dashboard

# Screenshots



Product View



Storeowner Dashboard



# Screenshots

Product List

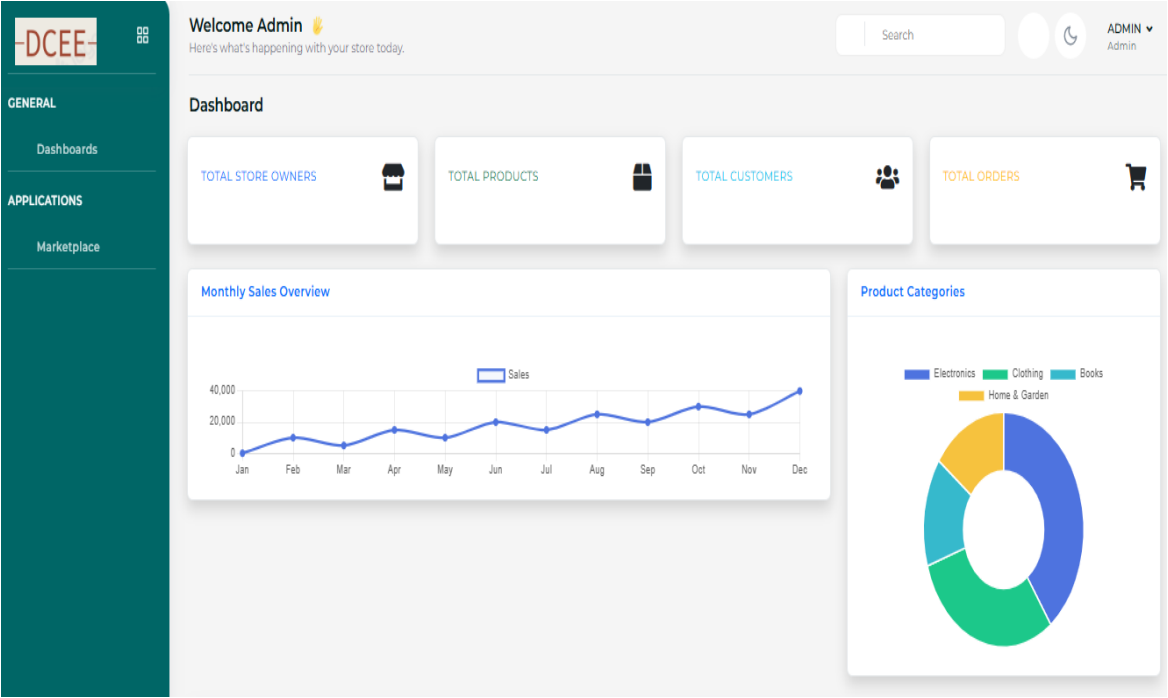
/ Products

Products List

View all Products.

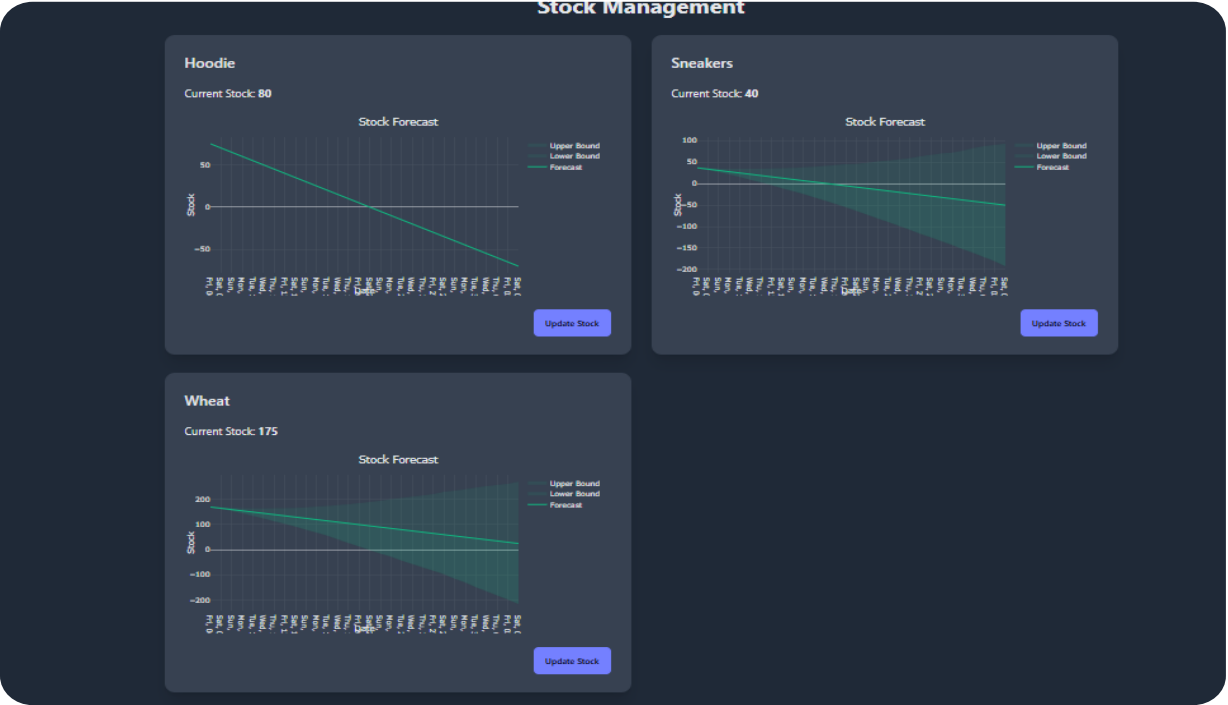
Product Name	Product Price	Product Status	Product Quantity	Product Added Date	Actions
Hoodie	\$450.00	available	4	2024-08-02	<div>Edit</div>
Saree	\$4500.00	available	3	2024-08-04	<div>Edit</div>
Crop Top	\$600.00	available	2	2024-08-09	<div>Edit</div>
Shirts	\$100.00	available	3	2024-08-10	<div>Edit</div>
Tops	\$120.00	available	2	2024-08-09	<div>Edit</div>
apple pen	\$120.00	available	23	2024-09-21	<div>Edit</div>
apple pen tes	\$120.00	available	23	2024-09-21	<div>Edit</div>
apple pen tes2	\$120.00	available	23	2024-09-21	<div>Edit</div>
apple pen tes22	\$120.00	available	23	2024-09-22	<div>Edit</div>

Product List



Admin Dashboard

# Screenshots



Stock Prediction - ML

**Dashboard**

← Back **Your Cart** Welcome, josnamarythomas25@gmail.com Logout

**Your Cart**

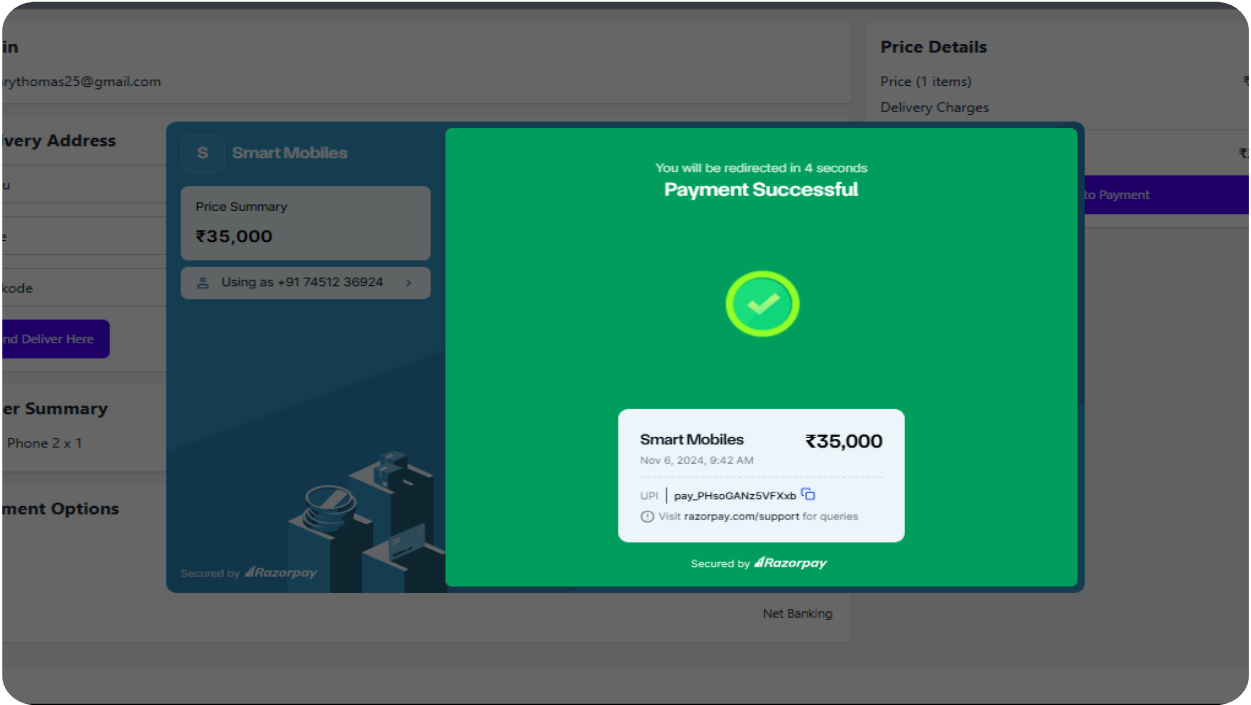
Product	Price	Quantity	Total	Actions
Sport Shoe	₹780.0	<div>- 1 +</div>	₹780.0	<div>Remove</div>

**Total: ₹780.0**

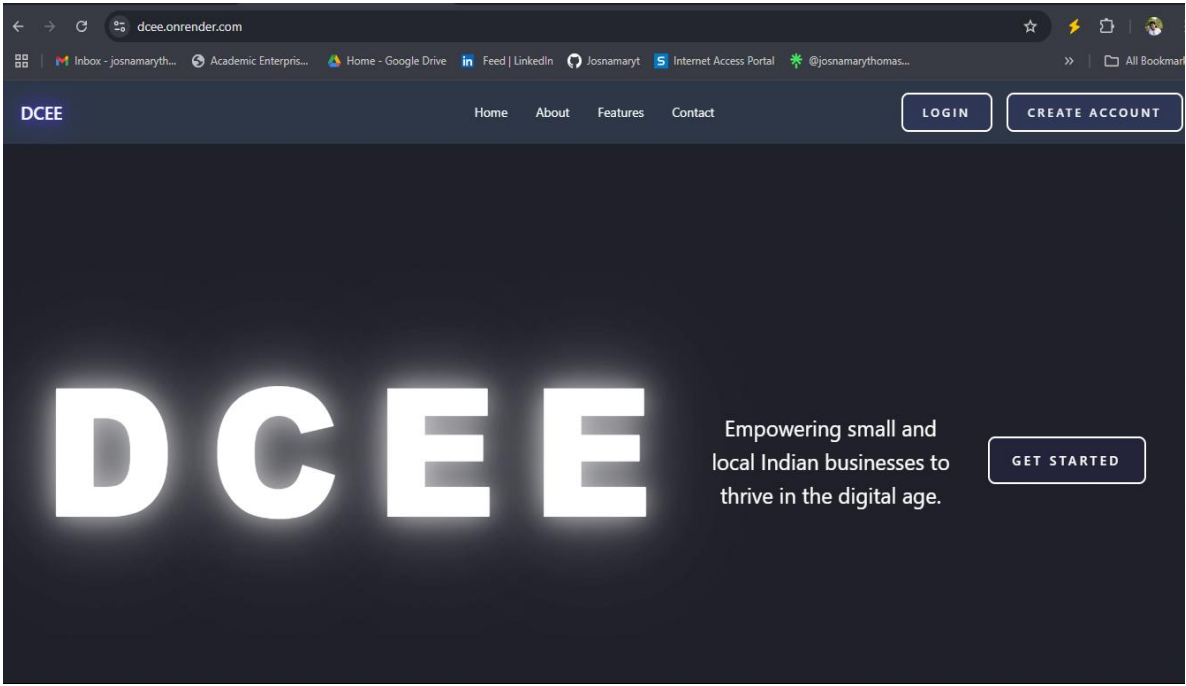
Proceed to Checkout

Cart

# Screenshots



Payment

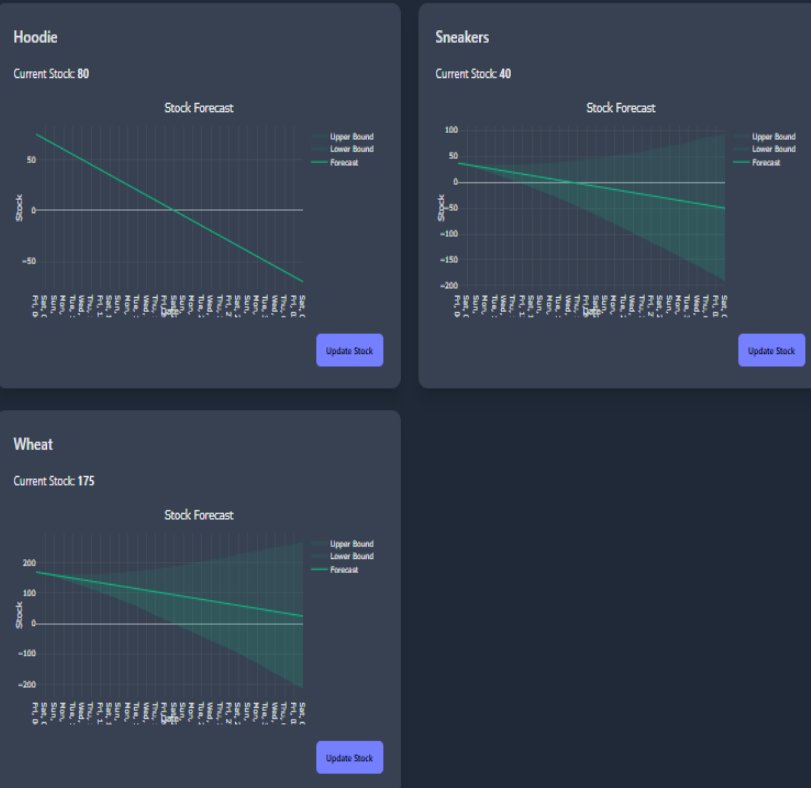


Hosted Site

# Implementation

## Stock Prediction

### Stock Management



Welcome Teena Mathew 🖐️  
Here's what's happening with your store today.

## Dashboard

Stock Management  
Manage Inventory 

[View Stock Management](#)

# 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

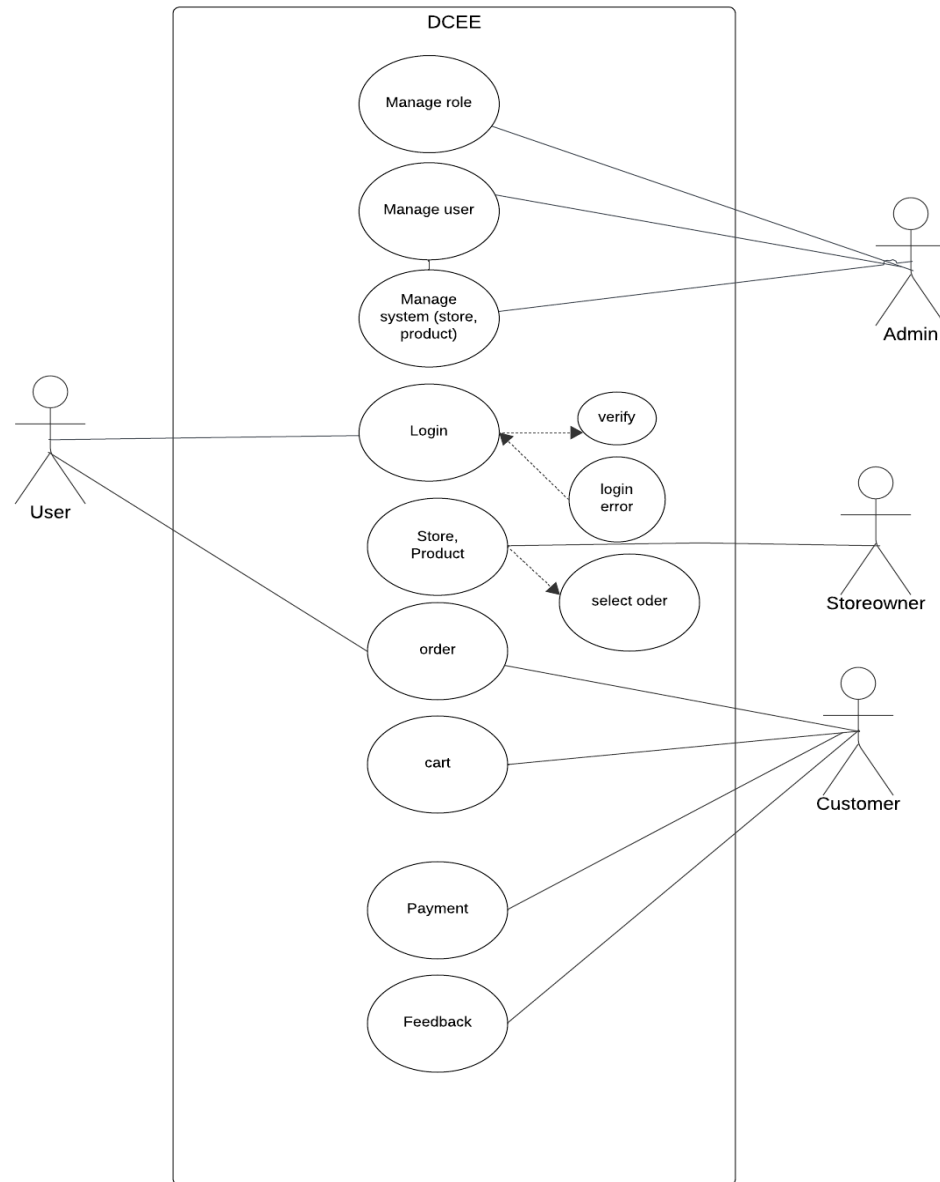
The Platform module is the main operational area of the application, providing users with personalized dashboards and managing user profiles for Owners, Admins, and Customers. It includes the Storefront feature, where owners can register new stores, add resources (such as products or services), and delete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

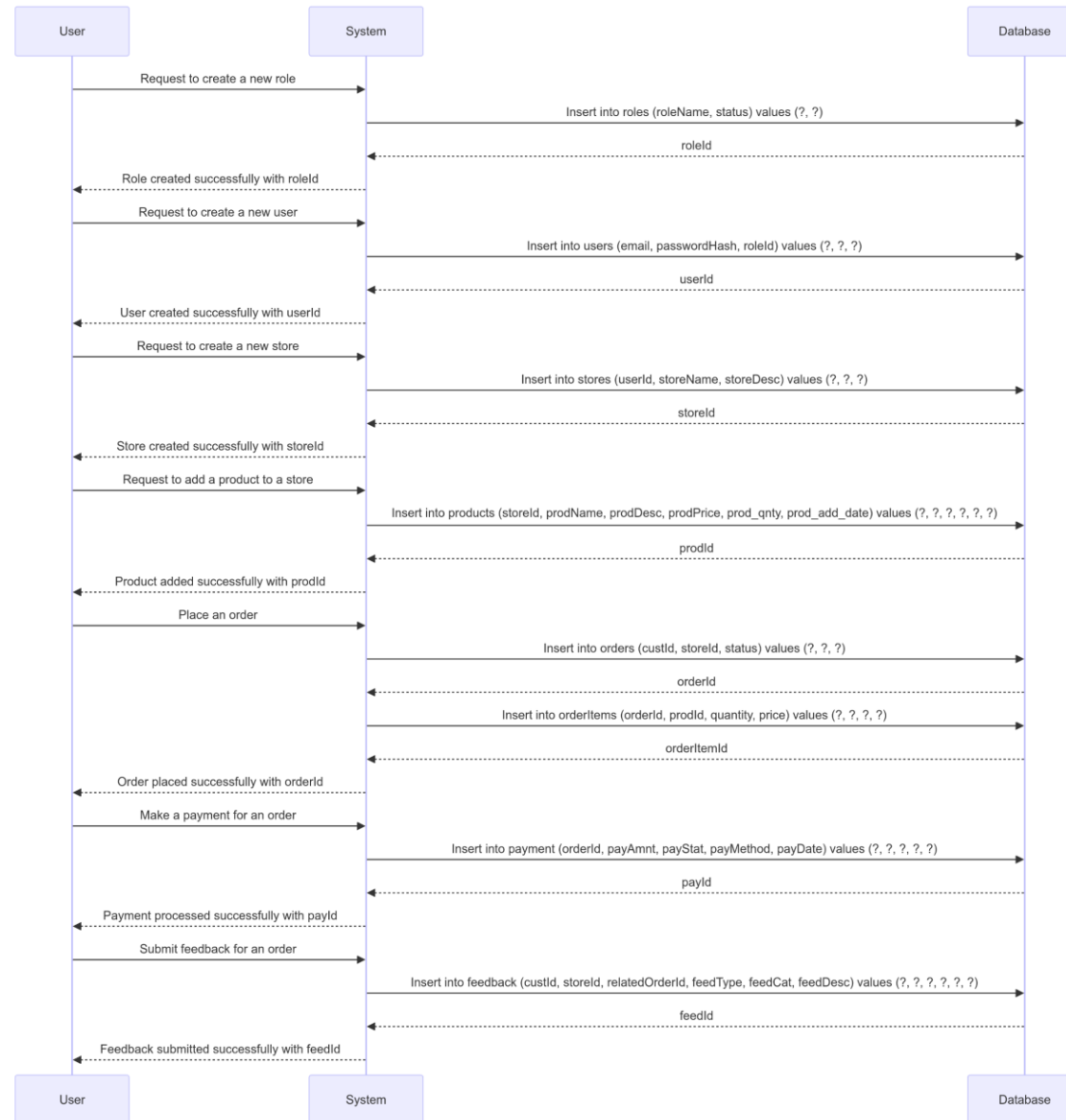
# UML Diagrams

## Use Case Diagram



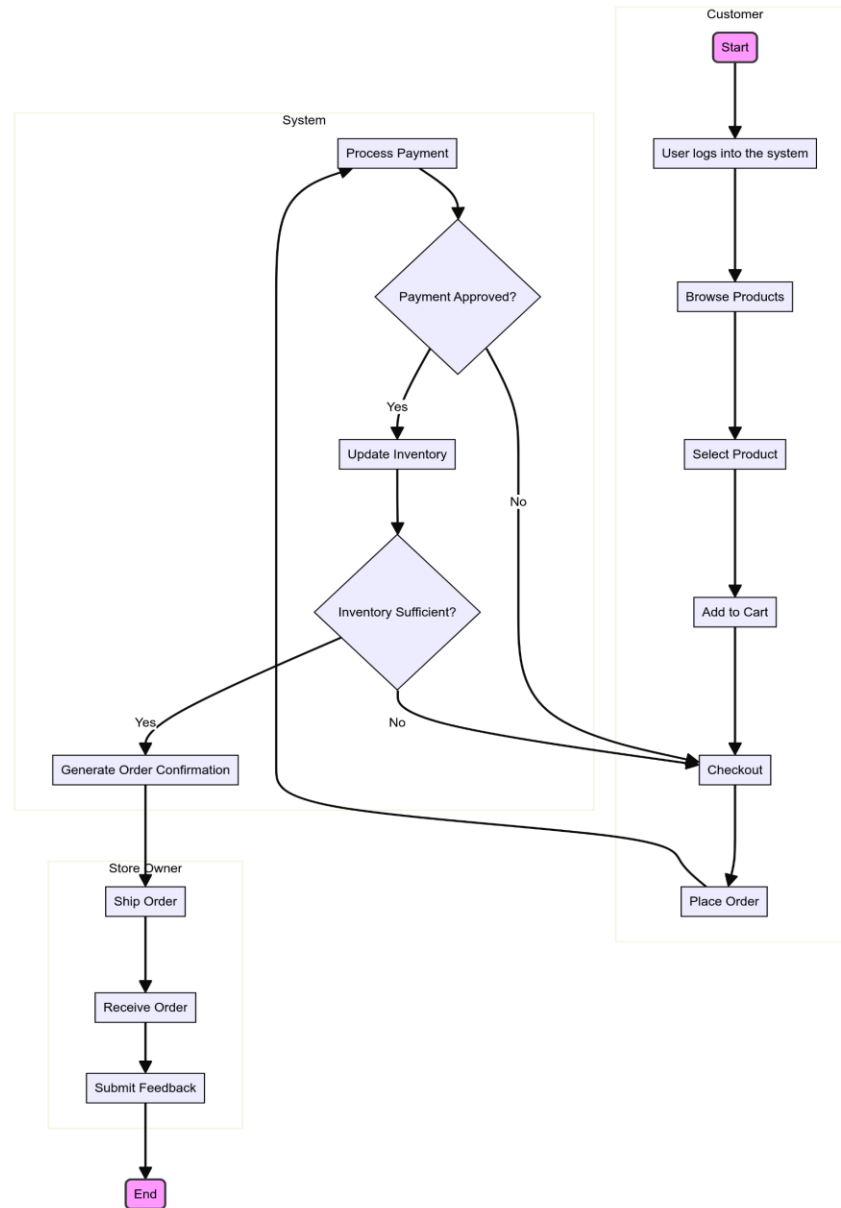
# UML Diagrams

## Sequence Diagram



# UML Diagrams

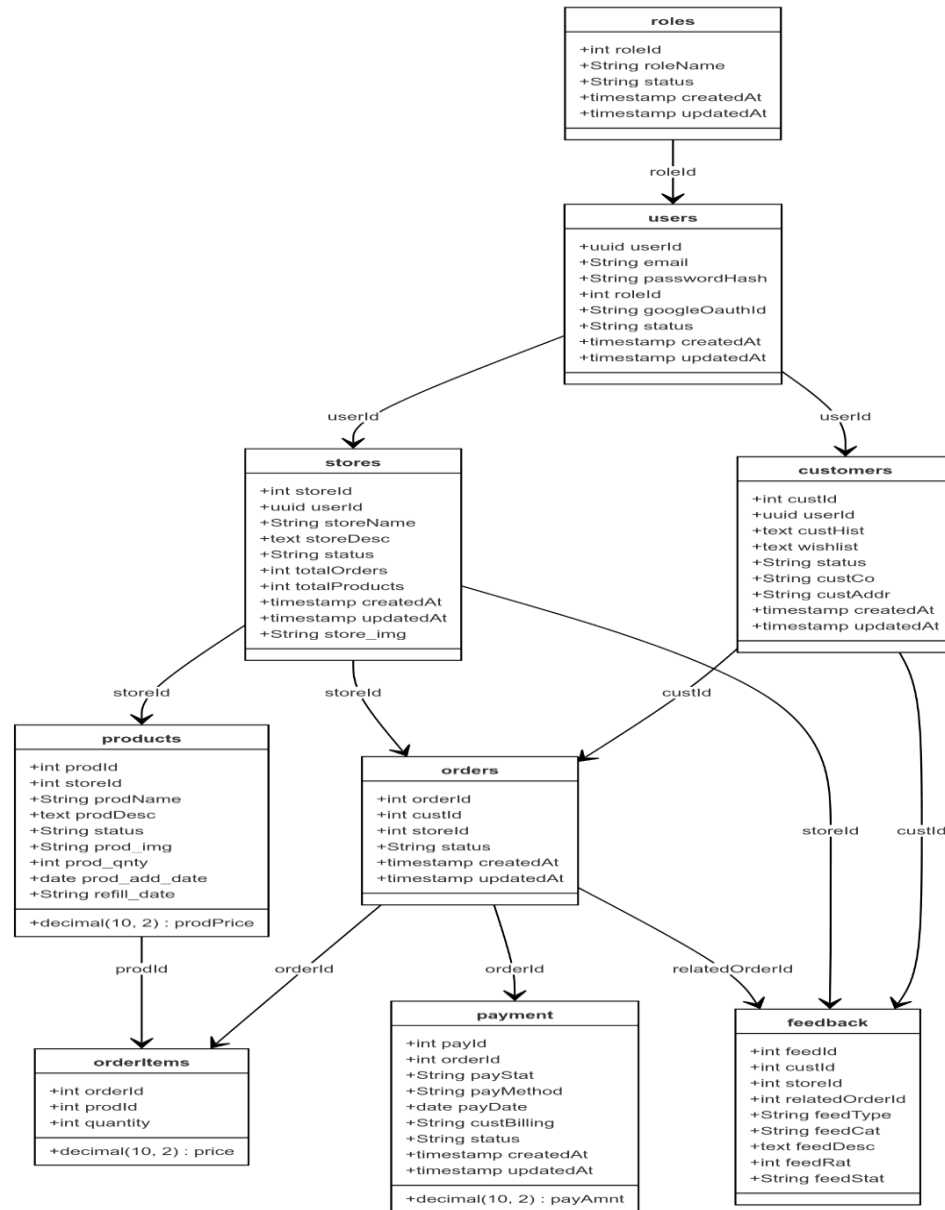
## Activity Diagram





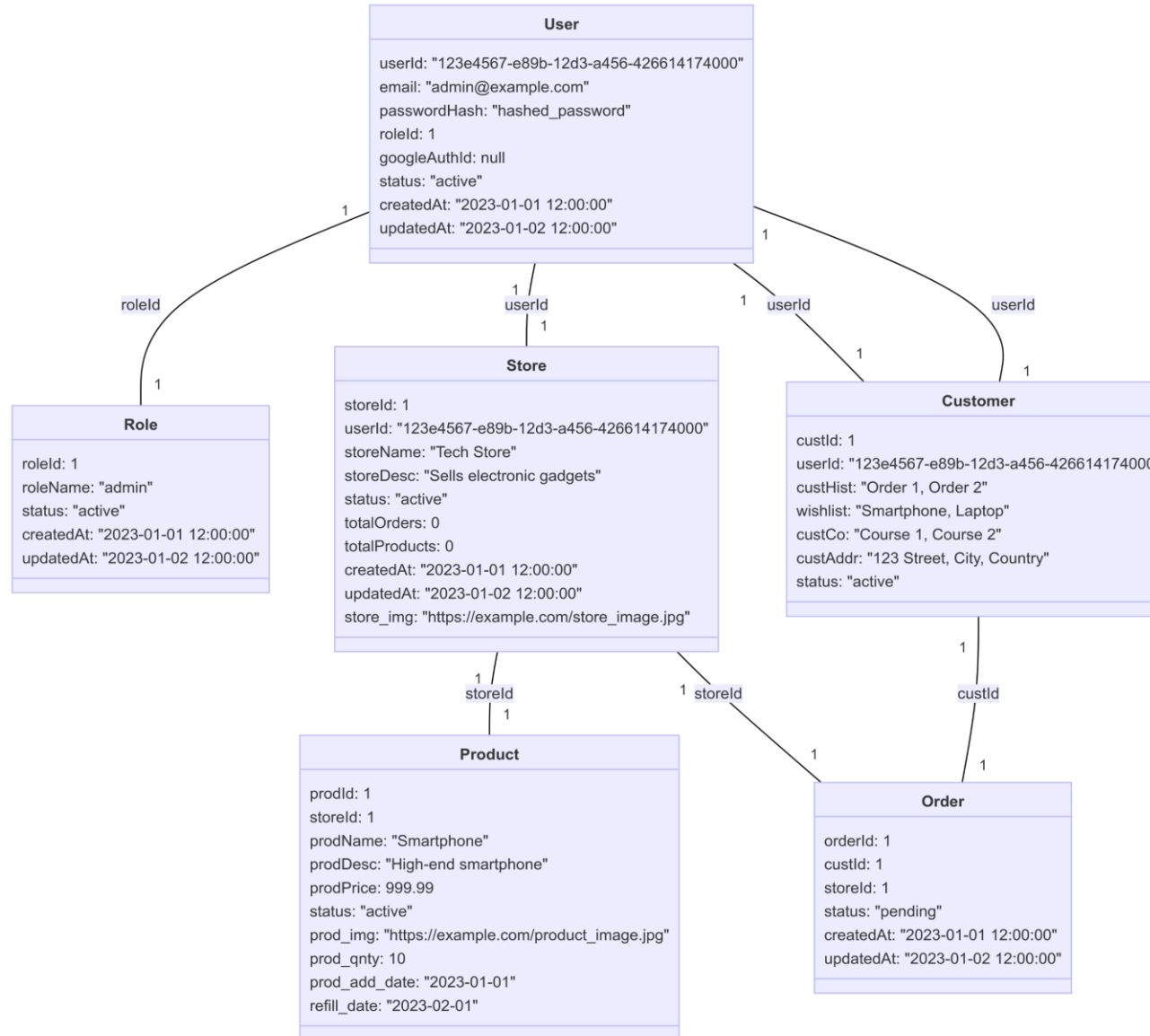
# UML Diagrams

## 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!**