

Project Report

Title: E-Commerce Site for Local Sellers

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Introduction

This project is about creating an online shopping platform for local sellers. The main goal is to help small shop owners and sellers who normally sell their products offline to bring their business onto the internet. Many local sellers face challenges in competing with big e-commerce companies, and this project focuses on giving them a simple, affordable, and reliable solution. The system allows sellers to add their products, manage their store, and reach customers online. Customers, on the other hand, can browse the catalog, select products, add them to their cart, and place orders. This project bridges the gap between local businesses and modern digital commerce in a way that feels approachable and easy to use.

Objectives

- To create a user-friendly online shopping platform for local sellers.
- To provide sellers with the ability to add, update, and remove their products without technical knowledge.
- To allow customers to easily search, filter, and view products before purchasing.
- To develop a simple and secure cart system that handles product addition and removal.
- To make sure that the order management process is smooth, starting from order placement to delivery confirmation.
- To use modern technologies like React, Spring Boot, and MySQL to ensure reliability and scalability.

Technology Stack

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|-------------|---|
| Frontend | React.js - Used for building the user interface. |
| Backend | Spring Boot - Provides a strong and secure backend framework. |
| Database | MySQL - Used for storing product details, seller information, customer orders |
| Other Tools | REST APIs for communication, Authentication libraries for security. |

System Modules

Seller Portal: The Seller Portal is where shop owners can register, login, and manage their store. They can add new products, update details like price or stock, and remove products that are no longer available. This gives sellers full control over their inventory without depending on others.

Customer Module: The Customer Module allows buyers to register, browse products, and place orders. They can create an account, maintain their profile, and view their past orders. The design ensures that even first-time users find it simple and easy.

Product Catalog: The Product Catalog is a central space where all products are displayed. Customers can search, filter, and sort products based on categories, price, or relevance. This makes shopping more convenient and efficient.

Cart & Checkout: The Cart allows customers to add products they like and review them before placing an order. They can increase or decrease quantities, remove items, and see the final total cost. Once they are satisfied, they can confirm their order, which is then stored in the system for the seller to process.

Use Case

The E-Commerce site is mainly designed for small local sellers such as grocery shops, clothing stores, stationery shops, or household item providers. Many of these sellers do not have the resources to join large online marketplaces. With this system, they can easily create an account and start selling online. Customers living in nearby areas can order products directly from them, which ensures faster delivery and better trust. For example, a small grocery store owner can list daily essentials, and customers from the same town can order them through this platform. This saves time for customers and increases sales for sellers.

Evaluation Parameters

- How smoothly the cart system works when customers add, remove, or update products.
- Whether the order workflow is simple and user-friendly from selection to confirmation.
- How well sellers can manage their products using CRUD operations (Create, Read, Update, Delete).
- The security of login and registration, ensuring customer and seller data is safe.
- The clarity of the product catalog in helping customers make purchasing decisions.

Conclusion

This project shows how technology can support local businesses in a very practical way. By giving sellers a simple tool to digitize their shop, it reduces their dependency on large corporations and helps them grow independently. At the same time, it benefits customers by providing them with the comfort of online shopping while still staying connected to local markets. The project uses modern technologies to ensure it is reliable, scalable, and easy to maintain. It highlights that even with limited resources, local sellers can step into the digital world and serve customers effectively. Overall, this project combines academic learning with real-life needs, making it both educational and impactful.