

Project Proposal

1. Project Title

E-Commerce System

2. Overview

The E-Commerce System is a web-based platform designed to facilitate online buying and selling. It provides a seamless user experience, secure transactions, and efficient order management for both customers and vendors.

3. Problem Statement

Traditional shopping methods lack convenience and accessibility. Many small businesses struggle with managing their online presence, while customers face difficulties in discovering and purchasing products efficiently. This system aims to provide a robust online marketplace where vendors can list products, and customers can browse, purchase, and track their orders seamlessly.

4. Objectives

- Develop a user-friendly platform for browsing and purchasing products.
- Implement a secure payment gateway for transactions.
- Provide vendors with a dashboard to manage inventory and sales.
- Enable order tracking and real-time notifications for customers.

5. Scope

In-Scope:

- User authentication and role-based access (Customer, Vendor, Admin).
- Product management (Adding, Editing, Removing products).
- Shopping cart and checkout system.
- Payment gateway integration (PayPal, Stripe, etc.).
- Order tracking and customer notifications.
- Review and rating system for products.

Out of Scope:

- AI-based recommendation system (future implementation).
- Multi-vendor marketplace with automated dispute resolution (future expansion).

6. Technology Stack

- **Frontend:** React.js / Angular / Blazor
- **Backend:** ASP.NET Core / .NET MVC
- **Database:** SQL Server / MySQL / PostgreSQL
- **Hosting:** Azure / AWS / Local Server
- **Payment Integration:** Stripe / PayPal / Razorpay

7. Expected Deliverables

- Fully functional e-commerce web application.
- Source code hosted on GitHub.
- Documentation (User Manual, Technical Docs).
- Deployment guide and API documentation.

8. Conclusion

The E-Commerce System aims to create a scalable, secure, and user-friendly online shopping experience that benefits both customers and vendors.