# TechShop E-Commerce Project Proposal

## 1. Project Overview

TechShop is an e-commerce platform designed to sell electronic products, including smartphones, laptops, and tech accessories. The project aims to provide a seamless shopping experience while integrating a robust SQL database and an ERP system for efficient business operations. The platform will ensure user-friendly navigation, secure payment options, and a well-structured backend for smooth management of inventory and sales.

## 2. Objectives

The primary objectives of TechShop are:

* • Develop a professional and user-friendly e-commerce website.
* • Build a strong SQL database to manage products, orders, and users.
* • Integrate an ERP system to track inventory, sales, and shipping.
* • Implement secure and multiple payment methods.
* • Enhance user experience with a responsive design and fast loading times.

## 3. Scope of Work

### 3.1 Website Features

* • Attractive and user-friendly UI/UX.
* • User authentication system: Account management, order tracking, and wish lists.
* • Product management: Display products with detailed descriptions and images, including search and filtering options.
* • Shopping cart and online payment system: Supporting multiple payment gateways.
* • Order and delivery tracking: Real-time updates on order status.
* • Product reviews and rating system.

### 3.2 Database & ERP Integration

* • SQL database design: Includes tables for users, products, orders, inventory, and payments.
* • ERP system: Links inventory to sales and manages internal operations like shipping and invoicing.

## 4. Technology Stack

TechShop will be built using the latest technologies to ensure performance, scalability, and security. The technology stack includes:

* • Back-End: C# (ASP.NET Core) for a secure and scalable server-side application.
* • Front-End: HTML, CSS, JavaScript (React.js or Vue.js) for an interactive user experience.
* • Database: SQL Server for structured and efficient data storage.
* • ERP System: Custom-built using SQL and C# to manage inventory, orders, and sales.
* • Hosting & Deployment: Cloud-based hosting for reliability and performance.