



Project Overview

This document outlines the key features, technical requirements, operations, and budget for building a e-commerce platform.

This Marketplace Website will support two types of users: -

- Admin: List Products, Manage products, orders, customers, inventory, and content.
- Users: Register, browse, search, and purchase products.

Portal-Wise Operations and Features

Admin Portal:

- Log In: Secure login using email & password
- Product Management: Add, edit, delete product listings including images, price, stock, and descriptions
- Order Management: View all user orders, track status (pending, shipped, delivered), and manage refunds
- Inventory Management: Update stock, set alerts for low inventory
- User Management: View, block, or delete users
- Analytics Dashboard: Monitor sales, traffic, order trends, etc.
- Payment Management: Configure Razorpay/Stripe, view transactions
- Discounts/Coupons: Create and manage promotional codes
- Email/SMS Setup: Integrate SendGrid, Twilio; manage templates
- Notification Center: View user messages, alerts, and system logs

User (Customer Role):

- Register/Login: Create account using email/OTP or social login
- Product Browsing: View product categories, filter & sort
- Search: Search by name, category, price, etc.
- Wishlist: Add products to favorites
- Cart & Checkout: Add items to cart, apply coupons, make payment
- Payments: Pay using Razorpay (UPI/Cards) or Stripe (Cards)
- Order History: Track current and previous orders with invoice
- Ratings & Reviews: Rate products and write reviews





- Profile Settings: Edit name, contact info, address
- Notifications: Receive email/SMS for order confirmation, shipment, and delivery
- Contact/Support: Message admin via contact form or chat

Technology Stack and Architecture

Frontend:

- React.js + Tailwind CSS (Responsive UI)

Backend:

- Node.js + Express.js (REST API)
- JWT for Authentication
- Multer for file uploads- Socket.IO for real-time chat

Database:

- MongoDB (Product Listings, Orders, Users)
- Redis (Session and Cache)
- Firebase Storage or AWS S3 for mediaOthers:
- Payment Gateway: Razorpay/Stripe
- Email: SendGrid
- SMS: Twilio/MSG91
- Hosting: AWS EC2 / Vercel / Hostinger VPS





E-Commerce Website Proposal

HarIT Tech Solution

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Budget Estimation (INR)

A. Development Costs (One Time):-

UI/UX Design	INR 5,000
Frontend Development	INR 12,000
Backend Development	INR 16,000
Testing and QA	INR 3,000
Deployment & Maintenance	INR 4,000
Total	INR 40,000

B. Monthly Services (Monthly):-

Domain (GoDaddy)	INR 100
Hosting (VPS + Frontend)	INR 2,000
MongoDB Atlas (Shared Cluster)	INR 900
AWS S3 for Storage	INR 600
Email Service (SendGrid) and SMS/OTP (Twilio/MSG91)	INR 900
Total Monthly	INR 4500

Total Estimate: INR 94,000 (for one year)



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