

# E-Commerce Project Breakdown

## Project Cost Breakdown

- Figma Design: NGN 300,000
- Front-End Development: NGN 800,000
- Back-End Development: NGN 850,000
- Hosting & Domain: \$282

## Site Functionalities

- Payment Gateway Integration
- Add to Cart & Checkout System
- Favorite Items (Wishlist Feature)
- Admin Dashboard
- User Dashboard
- Brand Name & Logo Creation
- Product Listing & Management
- Sorting & Filtering of Items
- Search Functionality with Auto-Suggestions
- Live Chat & Customer Support System
- Order Tracking System
- Discounts, Coupons, and Promo Codes
- Reviews & Ratings System
- Push Notifications for Promotions & Updates
- Invoice Generation & Order History

## Team Responsibilities

### 1. Figma Designer

- Branding: Create a logo and define brand identity.

- UI/UX Design: Design website layout and user-friendly interface.
- Mobile Responsiveness: Ensure design adapts to mobile and desktop views.
- Interactive Prototypes: Provide clickable mockups for developers.
- Design user-friendly navigation, checkout process, and product pages.

## **2. Front-End Developer**

- Implement Figma Design: Convert UI/UX designs into a responsive front-end.
- Fetch APIs & Display Data: Ensure seamless connection with the backend.
- Authentication System: Implement login, sign-up, forgot password, and account verification.
- Google reCAPTCHA: Protect forms from bots and spam.
- User Dashboard: Implement a section where users can track orders, favorites, and profile settings.
- Admin Dashboard UI: Structure UI for product uploads, sales tracking, and user management.
- SEO Optimization: Ensure fast page loading, meta tags, and SEO-friendly URLs.
- Other Features: Implement animations, accessibility standards, and performance optimizations.

## **3. Back-End Developer**

- Database Design & Management: Develop a scalable and secure database structure.
- User & Admin Authentication: Secure login, registration, and role-based access.
- Add to Cart & Checkout Logic: Handle item additions, removals, and checkout process.
- Sorting & Filtering Logic: Backend filtering for efficiency and performance.
- Product Upload System: Allow admin to upload and manage inventory.
- Order Management System: Process orders, update statuses, and notify users.
- IP Address Blocking: Restrict suspicious activities and prevent fraud.
- Security Measures: Encrypt sensitive data, use JWT authentication, and prevent SQL injection.

## **Hosting & Domain Setup (1 Year Plan)**

- VPS Server (Hostinger KVM 4 Server): 16GB RAM, 4 vCPUs, 200GB Storage, 16TB Bandwidth, Linux O
- Reason for VPS: Dedicated resources for high-speed performance and security.
- Business Email: Plan: Business Starter (\$10)
- Domain Name: .com, .net, .org (\$32)
- Dedicated Server: Better security, scalability, and performance.

## **Final Notes**

- We will be using RESTful APIs for smooth communication between the frontend and backend.

- Scalability and security will be key priorities in the development process.
- The e-commerce platform will be optimized for speed, SEO, and user experience.
- Additional integrations such as third-party logistics APIs (DHL, FedEx, etc.) can be added if needed.