National University of computer and emerging sciences

Project Proposal Document.

Group Members:

- Azfar Nayyan.
- Saim Imran.
- Talha Tofeeq.
- Abdullah Shafqat.

Problem Statement:

The current absence of an efficient and user-friendly e-commerce platform for our store, encompassing a wide array of product categories, presents a critical challenge. So, there is a need to build a website for our store so we can increase our customer engagement.

Store Name: Infiniti Store ∞.

Introduction:

We propose the development of an E-commerce Drop shipping Website that will revolutionize online shopping for both customers and our store. This website will be built using HTML, CSS, and JavaScript for front end and Node.js and MongoDB for backend, providing a seamless and user-friendly experience for all users. Our team, consisting of Saim Imran, Talha Tofeeq, Azfar Nayyan, and Abdullah Shafqat, is committed to delivering a robust and feature-rich platform.

The primary objective of our E-commerce Drop shipping Website is to create an efficient online marketplace.

Scope:

The scope of this e-commerce website project encompasses the development and launch of a comprehensive online platform that offers a wide array of products across multiple categories. The project includes user registration, product catalog management, shopping cart functionality, secure checkout, and personalized user experiences. The project aims to deliver a responsive, secure, and user-friendly e-commerce website that complies with data protection regulations and provides a feature-rich shopping experience for customers.

Some Competitor Websites:

1. www.telebrand.com.pk
2. https://www.etsy.com/?ref=lgo
3. https://www.ajio.com/
4. https://sproutcoverage.com/

Features	Matching Theme	Concise Content	Filter Option	No Scam	Good Quality	Low Price
Telebrand				●	●	●
Etsy	●	●	●	●	●	
Ajio	●		●			
Sprout Coverage	●	●	●			
Infinty Store	●	●	●	●	●	●

Feasibility Report:

The E-commerce Website project appears to be technically, economically, operationally, legally, and schedule-wise feasible. The project can have further development (modifications and updates) and implementation, with the flexibility to incorporate required necessities. The website's development will leverage tools such as HTML, CSS, JavaScript and MongoDB to create an efficient online marketplace that gives comfort to customers.

Feasibility Aspect	Feasibility Status	Features
Technical Feasibility	✓	User Authentication, Product Catalog, Shopping Cart and Checkout, User Reviews, Inventory Management, Order History for Customer, Customer Wallet, Product Sharing, Product Search, User Account Dashboard, Discount Code
Economic Feasibility	✓	Cost Efficiency
Operational Feasibility	✓	User Authentication, Product Catalog, Shopping Cart and Checkout, Inventory Management, Order History for Customer, Customer Wallet, Product Sharing, User Account Dashboard, Discount Code
Legal Feasibility	✓	User Authentication, Shopping Cart and Checkout, User Reviews, Inventory Management, Order History for Customer, Customer Wallet, Product Sharing, User Account Dashboard, Discount Code
Schedule Feasibility	✓	Development Timeline
Market Demand Support	✓	Customer Engagement, Market Expansion, Feedback and Improvement, Sustainability
Competitive Factors	✓	Market Expansion, Feedback and Improvement, Sustainability

Features:

1. User Authentication: User accounts with secure login and registration processes.
2. Product Catalog: A well-organized product catalog with categories and subcategories. Also, detailed product data with images, descriptions and prices.
3. Shopping Cart and Checkout: A customer shopping cart to add, edit, or remove items. Also, secure checkout process with multiple payment options

4. User Reviews: Allow customers to leave reviews for products and shown to customer before buying.
5. Inventory Management: Real-time inventory tracking and add, edit, or remove options for store admin.
6. Order History for Customer: Customers can view their order history and can track their purchased items.
7. Customer Wallet: Customer wallet which includes the customer money and customer can add more money to wallet.
8. Product Sharing: Customer can share products to others on different platforms.
9. Product search: Customer can search for desired product.
10. User Account Dashboard: Customer profiles with order history, wallet and shopping points.
11. Discount Code: Allow customers to use the discount code at the time of billing (if any).

Functional Requirements:

1. Customer must register before making purchases and must login through their accounts to shop.
2. Customers can add and remove products from their respective carts.
3. Orders must be recorded in the database to keep a permanent track of sales.
4. Customers must be able to search for products by the keywords of any product or categories.
5. Customers must be able to pay their respective bill by different payment options available for the product.
6. Admin can add more products or remove any product from the inventory database.
7. Customers can add money to their store wallet from different account methods.
8. The customer must be able to add a review for the product purchased by him.

Non-Functional Requirements:

1. The customer login must be efficient and responsive in a minimal amount of time.

2. The system should easily accommodate a growing number of products and users.
3. The system must be safe and secure for customers and the payment gateway should be fully secure.
4. The web should be able to handle more traffic of customers at any given time.
5. The product searching should be efficient and fast.

Quality Attributes:

1. Performance: The website should be responsive.
2. Security: Protection of sensitive user data.
3. Usability: Easy navigation and easy to use interface.
4. Reliability: High availability and uptime.
5. Scalability: Ability to handle increased traffic and growth.

Bussiness Requirements:

1. Implement SEO best practices to improve search engine rankings and drive organic traffic to the site.
2. Customer engagement using personalized recommendations and marketing strategies.
3. Enable integration with external services such as social media, email marketing, and inventory management systems.
4. Target new customer segments to scale up our store.
5. Optimize supply chain, negotiate supplier deals, and implement efficient inventory management.

Conclusion:

The development of this eCommerce website presents an exciting opportunity to enter the thriving eCommerce market. By delivering a user-friendly platform with a diverse product range, we aim to meet the evolving needs of online shoppers and establish a successful and profitable online business.

We seek approval and support to proceed with this project and look forward to realizing its potential.