



*Green University of Bangladesh*

*Department of Computer Science and Engineering (CSE)  
Semester: (Spring, Year: 2024), B.Sc. in CSE (Day)*

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## **Lab Project Proposal**

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*Course Title: Integrated Design Project - I  
Course Code: CSE324  
Section: 212D1*

Students Details

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<u><b>Lab Project Status</b></u>	
<b>Marks:</b>	<b>Signature:</b>
<b>Comments:</b>	<b>Date:</b>

# 1 Title of The Project Proposal

Ecommerce Software(Gift Shop)

## 2 Introduction

Welcome to our innovative eCommerce software designed specifically for gift shops! In today's digital age, the demand for convenient online shopping experiences is ever-growing, and gift shops are no exception. Our eCommerce software provides gift shop owners with a powerful platform to showcase their unique products, reach a wider audience, and streamline the purchasing process for customers. With our intuitive interface and robust features, gift shop owners can easily set up their online store, upload product listings, manage inventory, process orders, and engage with customers all from one centralized platform. Whether you're selling handmade crafts, personalized gifts, or specialty items, our software offers the flexibility and customization options to suit your business needs.

## 3 Literature Review

Agile methodology has emerged as a prominent approach in software development, offering a flexible and iterative framework that prioritizes collaboration, adaptability, and customer feedback. In the context of developing eCommerce software for gift shops, the application of agile principles proves advantageous. Agile encourages continuous improvement, risk mitigation, and stakeholder involvement throughout the development process. By breaking down tasks into manageable increments and delivering value iteratively, agile teams can respond effectively to changing market dynamics and customer needs. This iterative approach fosters open communication, aligns efforts towards project goals, and ensures that the final product meets stakeholders' expectations. Overall, agile methodology provides a robust framework for developing eCommerce software tailored to the specific requirements and challenges of gift shop owners, enabling teams to deliver innovative solutions that drive business success in the competitive online marketplace.

## 4 Objectives

The primary objective of our eCommerce software for gift shops is to provide a comprehensive and user-friendly platform that enables gift shop owners to establish and grow their online presence. Specifically, our software aims to achieve the following objectives:

- **Simplify Setup:** We aim to simplify the process of setting up an online store for gift shop owners, offering intuitive tools and guidance to streamline the onboarding process.

- **Expand Reach:** By providing a digital storefront, our software enables gift shops to reach a broader audience beyond their physical location, tapping into the global market of online shoppers.
- **Enhance Customer Experience:** We prioritize creating a seamless and enjoyable shopping experience for customers, with features such as easy navigation, secure transactions, and personalized recommendations.
- **Optimize Operations:** Our software equips gift shop owners with tools to efficiently manage inventory, process orders, track shipments, and analyze sales data, ultimately optimizing their operational processes.

By fulfilling these objectives, our eCommerce software for gift shops endeavors to revolutionize the way gift shop owners do business online, empowering them to succeed in the digital marketplace.

## 5 Requirement Analysis

In this section we will briefly discuss total three topic following:-

### 5.1 System Requirement

1. **Platform Compatibility:** The software should be accessible across various platforms, including mobile and tablets to cater to a wide range of users.
2. **Responsive Design:** The user interface must be responsive, ensuring seamless navigation and functionality across different screen sizes and resolutions.
3. **Secure Payment Gateway:** Integration with a secure payment gateway is essential to facilitate safe and encrypted online transactions, providing customers with confidence in their purchases.
4. **Product Management:** The software should allow gift shop owners to easily add, edit, and manage product listings, including descriptions, images, prices, and inventory levels.
5. **Customization Options:** Flexible customization options should be available to tailor the appearance and layout of the online store to reflect the unique branding and identity of the gift shop.
6. **Inventory Management:** Comprehensive inventory management capabilities are necessary to track stock levels, receive notifications for low inventory, and manage product variants and SKUs efficiently.
7. **Order Processing:** The software should streamline the order processing workflow, allowing gift shop owners to view, manage, and fulfill orders seamlessly from a centralized dashboard.

8. **Shipping Integration:** Integration with shipping carriers and fulfillment services enables automatic calculation of shipping rates, printing of shipping labels, and tracking of shipments to ensure timely delivery.
9. **Customer Management:** The software should include features for managing customer accounts, capturing customer information, tracking order history, and facilitating communication with customers.
10. **Analytics and Reporting:** Robust analytics tools should be provided to generate insights into sales performance, customer behavior, traffic sources, and conversion rates, empowering gift shop owners to make data-driven decisions.
11. **Security Features:** Implementation of security measures such as SSL encryption, PCI compliance, and protection against fraudulent activities is crucial to safeguard sensitive customer data and maintain trust.
12. **Scalability:** The software should be scalable to accommodate growth in traffic, sales volume, and product offerings without compromising performance or user experience.
13. **Support and Maintenance:** Ongoing technical support, software updates, and maintenance services should be available to address any issues, optimize performance, and ensure the software remains up-to-date with industry standards and security protocols.

## 5.2 User Requirement

### 5.2.1 User Panel

- Login
- Registration
- Search
- Product Catalog
  - Digital Gift Card
    - \* Apple Gift Card
    - \* Google Gift Card
    - \* Amazon Gift card
    - \* Razer Gift card
    - \* Xbox Gift card
    - \* Roblox Gift card
    - \* Play Station Gift Card
    - \* Steam Gift card
  - Hand Craft Gift Card
- Add to Cart

- Payment
  - Mobile Wallet
  - Bank Payment
  - Card Payment
  - Cash on Delivery
- Delivery method
  - Email delivery
    - \* Digital Gift card Item
  - Physical delivery
    - \* Hand craft item
- Check Out

### **5.2.2 Admin Panel**

- Login
- Mange Product
  - Add Product
  - Delete Product
  - Update product
- Process Order
  - Update order Status
- Manage user account
- Customer Support

## **5.3 Non-functional Requirement**

- Security
  - Backup & recovery
- User satisfaction
  - Easy UI/UX design
- Notice bord
- Profile
  - Picture update

- Address update
  - email and contact info update
- Favorite
- Menu
  - Order status
  - Order History
  - Order Cancellation History
- Review section
- Customer Support
  - Email support
  - Live chat

## 6 Block Diagram of the features



Figure 1: features block diagram for ecommerce software(Gift Shop).

## 7 Feasibility Study

The feasibility study aims to assess the viability and potential success of developing an eCommerce software solution tailored specifically for gift shops. It will analyze various aspects, including market demand, technical feasibility, financial considerations, and operational requirements, to determine whether the project is feasible and worth pursuing.

#### 1. Market Demand Analysis:

- Research market trends and consumer behavior regarding online shopping for gift card.
- Identify the target market segments, including gift shop owners and online shoppers interested in unique and personalized gifts.
- Analyze competition from existing eCommerce platforms and assess the potential for differentiation and market penetration.

#### 2. Technical Feasibility:

- Evaluate the technical requirements for developing the eCommerce software, including platform compatibility, scalability, and security features.
- Assess the availability of suitable technologies, frameworks, and tools for building the software.
- Determine the feasibility of integrating essential features such as inventory management, order processing, payment gateways, and analytics capabilities.

#### 3. Financial Considerations:

- Estimate the initial investment required for software development, including expenses for research, design, development, and testing.
- Calculate ongoing operational costs, including hosting, maintenance, support, and marketing expenses.
- Project potential revenue streams, including subscription fees, transaction fees, and additional services offered to gift shop owners.

#### 4. Operational Requirements:

- Define the operational processes involved in managing the eCommerce software, including product listing, order fulfillment, customer support, and analytics.
- Identify staffing requirements for technical support, customer service, and sales and marketing efforts.
- Assess the scalability of the operational infrastructure to accommodate growth in users, transactions, and product listings.



## 8 Gantt Chart of Project Development Timing

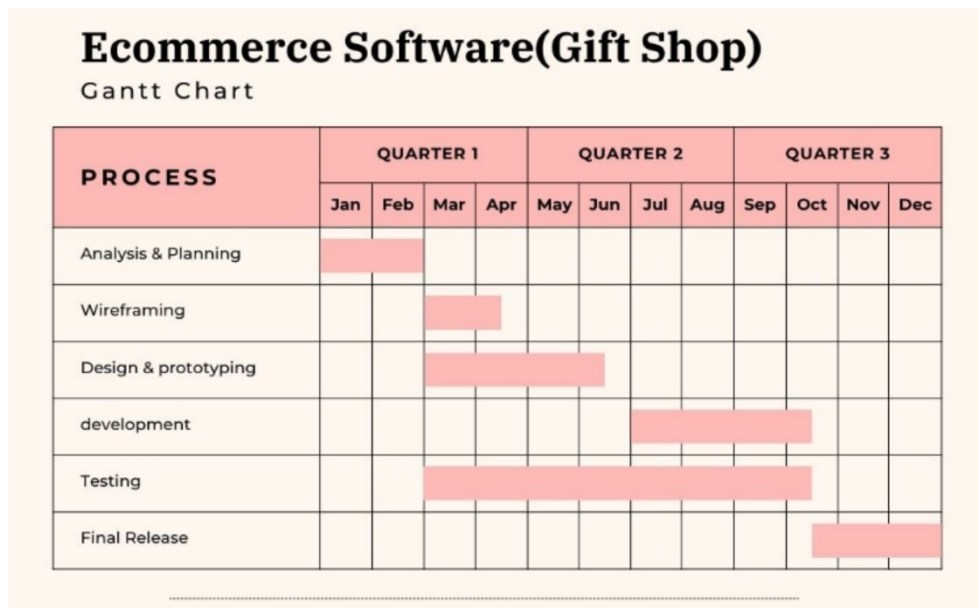


Figure 2: Gantt chart for ecommerce software(Gift Shop).

## 9 Detailed Budget

Phase	Duration (Month)	Budget Alocation
Analysis and Planning	2	40000
Wireframing	1.5	30000
Design and Prototyping	3.5	70000
Developmen	3.5	100000
Testing	7.5	150000
Final Release	2.5	50000
Contingency		50000
Total	12	490000

Table: Budget calculation for ecommerce software(Gift Shop).

## 10 Conclusion

In conclusion, the development of eCommerce software tailored specifically for gift shops presents a promising opportunity to revolutionize the way these businesses operate in the digital landscape. By providing a comprehensive platform that addresses the unique needs of gift shop owners, such as personalized recommendations, intuitive user interfaces, and robust inventory management, this software has the potential to

enhance customer experiences, streamline operations, and drive growth. With the ever-increasing demand for convenient online shopping experiences and the rising trend of personalized gifting, the market for such software solutions is ripe with potential. As gift shop owners embrace digital transformation, this specialized eCommerce software stands poised to empower them to thrive in the competitive online marketplace, ultimately redefining the future of gift shopping.