

# FRONT-END UI/UX MINI PROJECT

PROJECT TITLE : “ E-commerce website”

SUBMITTED BY : TEAM MEMBERS :

1 - KUMMITHI VENKATA SUDHARSHAN REDDY

REG NO: 2462105

EMAIL ID: kummithi.venkata@btech.christuniversity.in

2 - AHAON SARKAR.

REG NO: 2462019

EMAIL ID: ahaon.sarkar@btech.christuniversity.in

3 - T .SHANMUKHA PRANAY.

REG NO :2462159.

EMAIL ID: tamatam.shanmukha@btech.christuniversity.in

COURSE: UI/UX Design Fundamentals.

INSTRUCTOR NAME: Narendra Sir.

INSTITUTION: Christ University.

DATE OF SUBMISSION: 26/09/2025

# **Project Report**

## **1. Title:**

E-commerce Website - Ghibli Store

---

## **2. Abstract**

This project involves the design and development of a fully functional e-commerce website that provides users with an interactive platform to browse, search, and purchase products online. The site is built with HTML5, CSS3, JavaScript, and Bootstrap to ensure responsiveness, user-friendly navigation, and consistent styling across devices. The project also integrates cart functionality, product categorization, and checkout features to simulate real-world e-commerce operations.

The platform aims to create a seamless digital shopping experience with intuitive navigation, fast loading, and secure structure. It can serve as a foundation for further integration with backend systems, databases, and payment gateways.

---

## **3. Objectives**

1. Build a user-friendly online shopping platform.

2. Provide an organized display of products with descriptions and prices.
3. Implement cart functionality for adding, removing, and updating items.
4. Ensure responsive design for desktop, tablet, and mobile devices.
5. Maintain clean, structured, and accessible code.
6. Deliver an engaging shopping experience with modern UI/UX principles.
7. Provide a scalable foundation for future backend and payment integrations.

---

#### **4. Scope of the Project**

- Interactive e-commerce front-end for product browsing and purchase.
- Multiple product categories with descriptions, pricing, and images.

- Cart and checkout simulation to mimic real-time shopping.
  - Integration of HTML, CSS, JavaScript, and Bootstrap for responsiveness.
  - Scalable design that allows for backend extensions (database, payments).
  - Accessibility and responsiveness for all major devices.
  - Practical demonstration of web development skills and e-commerce concepts.
- 

## **5. Tools and Technology Used**

- HTML5 – Structure of web pages.
- CSS3 – Styling and layout customization.
- Bootstrap 5 – Responsive design and grid system.
- JavaScript (ES6) – Interactivity and dynamic behavior.
- jQuery – Simplified DOM manipulation.

- FontAwesome – Icons for UI enhancement.
  - Local Assets – Images and resources for faster load times.
- 

## **6. HTML Structure Overview**

- Header & Navbar – Brand name and product category navigation.
  - Product Listings – Grid cards with images, descriptions, and pricing.
  - Cart Section – Add/remove/update functionality for selected items.
  - Checkout Section – Simulation of order summary and final purchase.
  - Footer – Contact info, social links, and copyright.
- 

## **7. CSS Styling Strategy**

- Custom styles applied via external CSS file.
  - Bootstrap classes used for grid system and responsiveness.
  - Hover and transition effects on product images and buttons.
  - Consistent color scheme and typography for branding.
  - Media queries to adapt design across devices.
- 

## **8. JavaScript Strategy**

- Functions for cart management (add, remove, update).
- DOM manipulation for dynamic product interactions.
- jQuery used for smooth animations and simplified scripting.
- Event listeners for user actions (e.g., clicking "Add to Cart").
- Modular code for easier debugging and maintainability.

---

## **9. Key Features**

1. Responsive product grid for browsing.
2. Add-to-cart functionality with item count updates.
3. Real-time cart summary with total calculation.
4. Organized categories for easy navigation.
5. Interactive UI with hover effects and animations.
6. Checkout simulation with order overview.
7. Accessibility compliance with semantic HTML.
8. Clean and extensible code structure.

---

## **10. Challenges and Solutions**

### **Challenges:**

- Aligning products consistently across different screen sizes.

- Avoiding broken layouts during responsiveness testing.
- Ensuring smooth cart updates without page reload.
- Keeping the UI consistent across multiple categories.

### **Solutions:**

- Used Bootstrap grid and Flexbox for alignment.
- Applied responsive CSS media queries.
- Implemented JavaScript functions for real-time cart updates.
- Created reusable product card components for consistency.

---

## **11. Outcomes**

- Fully functional e-commerce front-end prototype.
- Improved understanding of responsive design and cart logic.



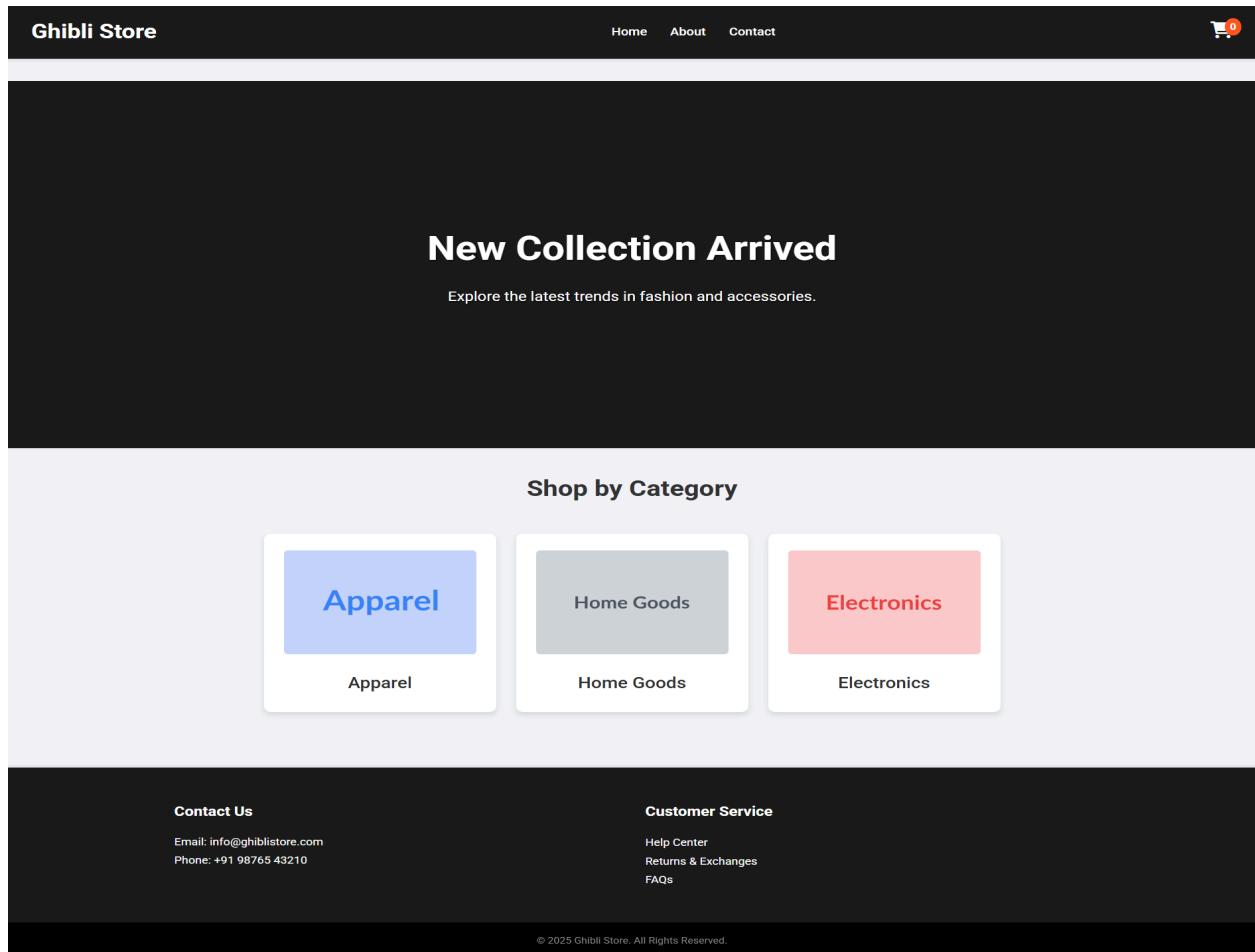
- Clean and reusable codebase.
  - Platform ready for backend integration (databases and payments).
  - Demonstrates practical knowledge of web technologies and UI/UX design.
- 

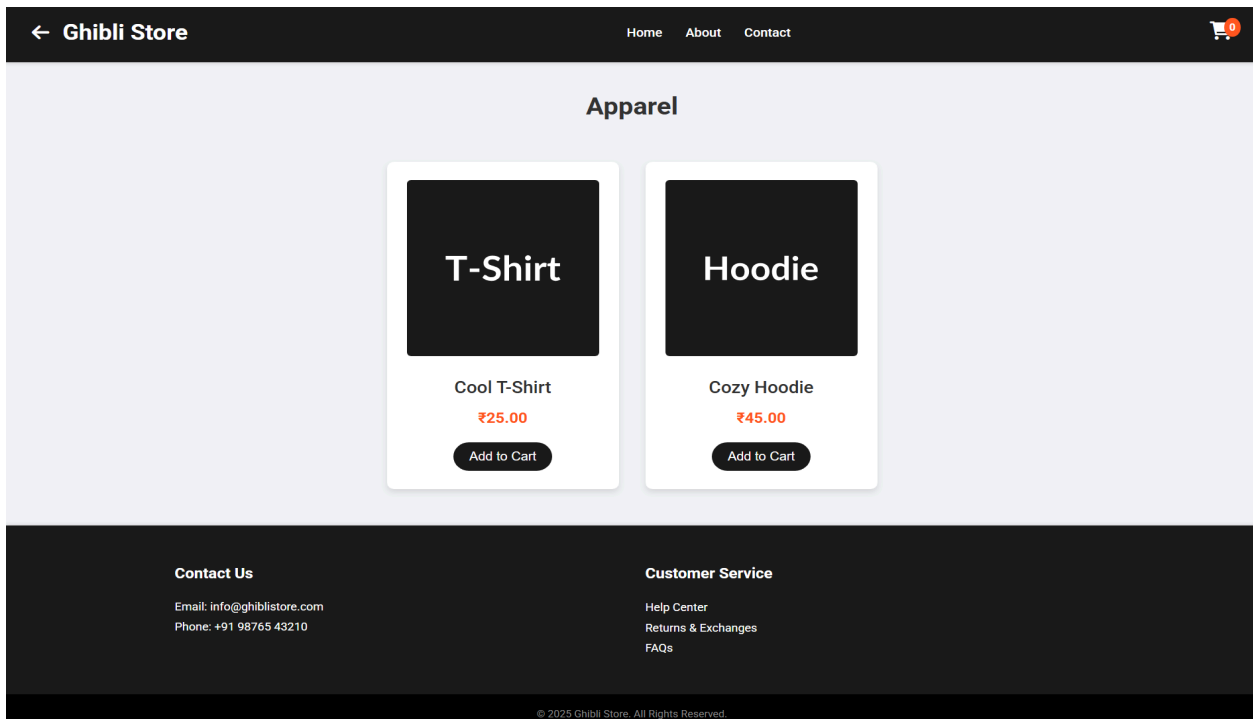
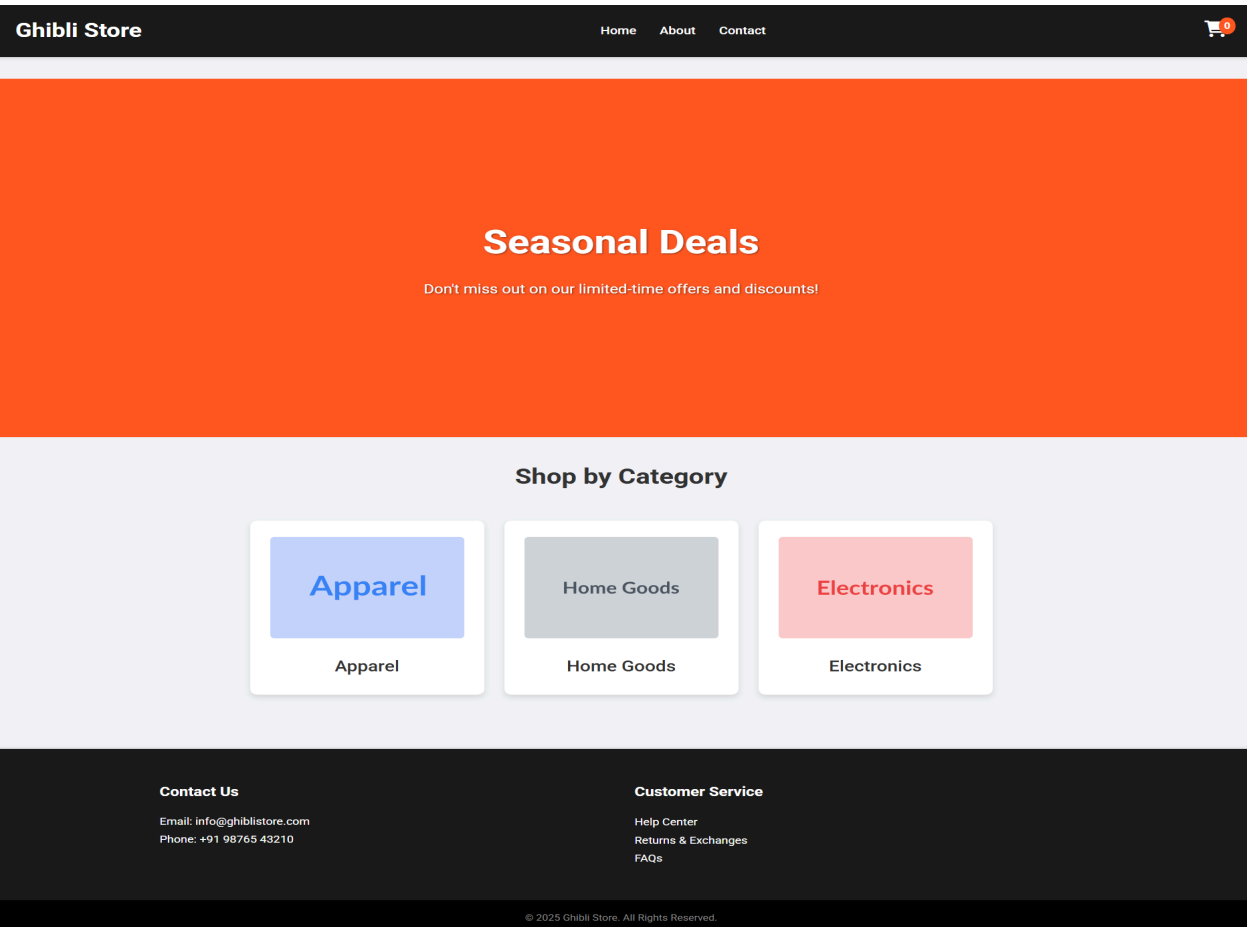
## **12. Future Enhancements**

- User authentication (login/signup).
- Payment gateway integration (PayPal, Razorpay, etc.).
- Database connectivity for product and order management.
- Admin dashboard for inventory and order tracking.
- Advanced search and filtering options.
- Customer reviews and ratings.
- Wishlist functionality.

- Dark mode support.

## 13. Screenshots





← Ghibli Store

HomeAboutContact

T-Shirt

Cool T-Shirt

₹25.00

A comfortable and stylish t-shirt made from 100% organic cotton. Perfect for any casual occasion.

Add to Cart

Contact Us

Email: info@ghiblistore.com  
Phone: +91 98765 43210

Customer Service

Help Center  
Returns & Exchanges  
FAQs

© 2025 Ghibli Store. All Rights Reserved.

← Ghibli Store

HomeAboutContact

Your Shopping Cart

T-Shirt

Cool T-Shirt

₹25.00

-

3

+

Remove

Vase

Ceramic Vase

₹30.00

-

1

+

Remove

Mug

Stylish Mug

₹15.00

-

1

+

Remove

Total: ₹120.00

Proceed to Checkout

Contact Us

Email: info@ghiblistore.com  
Phone: +91 98765 43210

Customer Service

Help Center  
Returns & Exchanges  
FAQs

© 2025 Ghibli Store. All Rights Reserved.

← Ghibli Store

Home

About

Contact

5

Checkout

Customer Information

Full Name

Ahaon Sarkar

Email Address

abc@gmail.com

Shipping Address

Christ University

Order Summary

Cool T-Shirt (x3)

₹75.00

Ceramic Vase (x1)

₹30.00

Stylish Mug (x1)

₹15.00

Delivery Charge

₹50.00

Grand Total

₹170.00

Proceed to Payment

Contact Us

Email: info@ghiblistore.com

Phone: +91 98765 43210

Customer Service

Help Center

Returns & Exchanges

FAQs

© 2025 Ghibli Store. All Rights Reserved.

← Ghibli Store

Home

About

Contact

5

Choose Payment Method

●

Online Payment

Cash on Delivery

Final Buy Now

Contact Us

Email: info@ghiblistore.com

Phone: +91 98765 43210

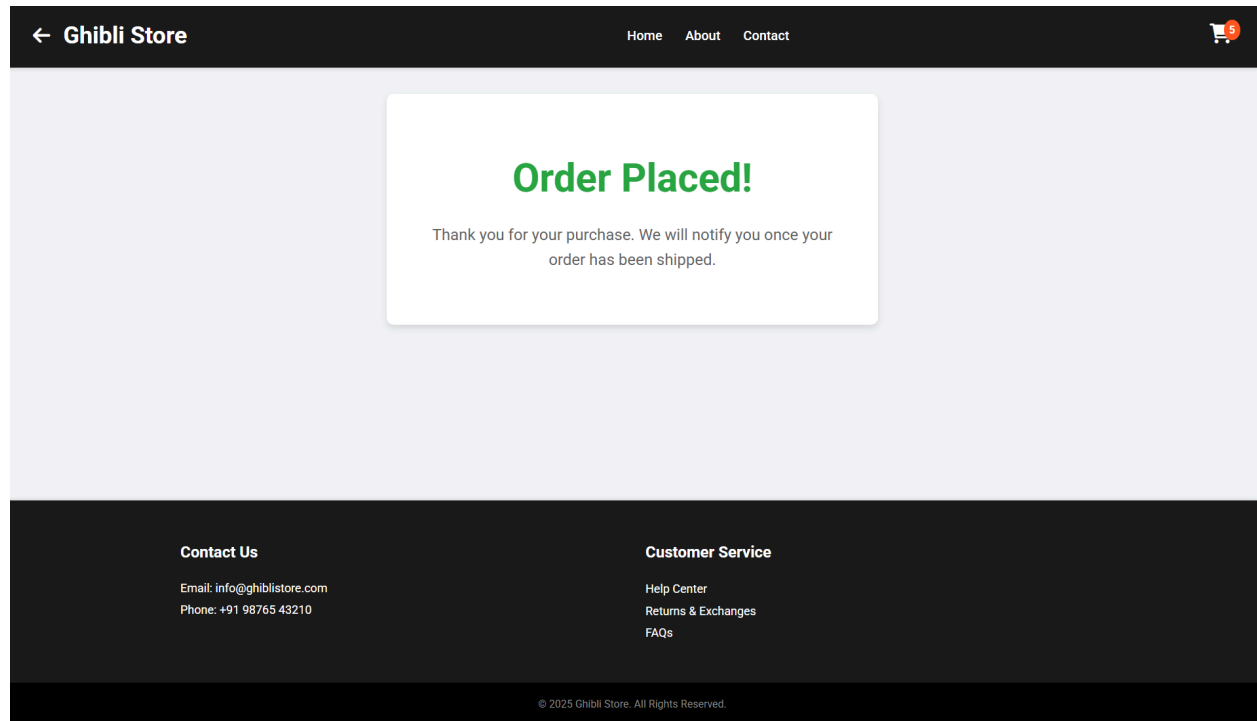
Customer Service

Help Center

Returns & Exchanges

FAQs

© 2025 Ghibli Store. All Rights Reserved.



## **14. Conclusion**

The e-commerce website successfully demonstrates the principles of online shopping platforms by combining product browsing, cart functionality, and responsive design. It achieves its objective of creating a user-friendly and visually appealing interface, while also maintaining clean and extensible code. Though it is currently a front-end prototype, the structure provides a strong foundation for integration with backend services and payment systems. With planned enhancements, the platform can be expanded into a fully operational e-commerce solution that meets industry standards.