



# **iJRASET**

International Journal For Research in  
Applied Science and Engineering Technology



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# **INTERNATIONAL JOURNAL FOR RESEARCH**

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

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**Volume: 13    Issue: III    Month of publication: March 2025**

**DOI: <https://doi.org/10.22214/ijraset.2025.67675>**

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# Building an E-Electronic Shopping Website

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**Abstract:** Online shopping websites have revolutionized the retail industry by offering consumers a convenient and efficient way to browse, compare, and purchase products from the comfort of their homes.

*This paper explores the fundamental aspects of online shopping platforms, including their architecture, user experience, security concerns, and the integration of personalized recommendations using artificial intelligence. The growing adoption of e-commerce has also introduced challenges related to data privacy, fraud prevention, and supply chain management.*

*As businesses transition to digital storefronts, understanding the evolving landscape of online shopping websites becomes crucial for maintaining competitive advantages and ensuring customer satisfaction. Future trends such as augmented reality (AR) shopping, voice commerce, and blockchain-based transactions are also discussed as potential innovations shaping the next generation of e-commerce platforms.*

## I. INTRODUCTION

In today's digital age, online shopping has become an essential part of modern life, revolutionizing the way consumers purchase products and services. The development of an E-Electronic Shopping Website offers customers a convenient, user-friendly platform to browse, compare, and purchase a wide range of electronic products from the comfort of their homes. This project aims to create a fully functional e-commerce website dedicated to electronic gadgets and appliances, catering to the growing demand for online electronics shopping. These platforms allow users to explore a wide range of items from electronics and apparel to groceries and home essentials without the constraints of physical store visits. With the rapid development of internet infrastructure and the widespread adoption of smartphones, e-commerce has seen unprecedented growth in recent years.

We specialize in providing top-quality electrical products, solutions, and services to meet your needs. Whether you're working on a home project, managing a business, or pursuing industrial applications, our platform offers a reliable range of tools, accessories, and resources to help you succeed.

To ensure smooth performance and reliability, the website will be built using a combination of front-end technologies like HTML, CSS, and JavaScript, along with back-end frameworks such as Java, Python, or Node.js. A robust database will store product information, user data, transaction records, and order history. The website will also incorporate modern design principles, including responsive layouts, making it accessible on desktops, tablets, and smartphones.

## II. METHODOLOGY

Research methodology is a way to systematically solve the research problem. It may be understood as a science of studying how research is done scientifically. In it we study the various steps that are generally adopted by a researcher in studying his research problem along with the logic behind them. It is necessary for the researcher to know not only the research methods/techniques but also the methodology.

### A. Planning & Analysis

The project starts with market research to understand user needs and competitors. Requirements are gathered, and a roadmap is created to define core functionalities such as product listings, payment integration, and customer support.

### B. Design & Development

A user-centric design approach is adopted, focusing on intuitive navigation, responsive layouts, and accessibility. The front end is built using HTML, CSS, JavaScript while the backend is powered by Java or JSP with MySQL for efficient data management.

### C. Testing & Deployment

Continuous testing, including unit testing, security testing, and performance testing, is conducted to ensure a seamless user experience. Deployment follows a CI/CD pipeline, enabling quick updates and bug fixes.

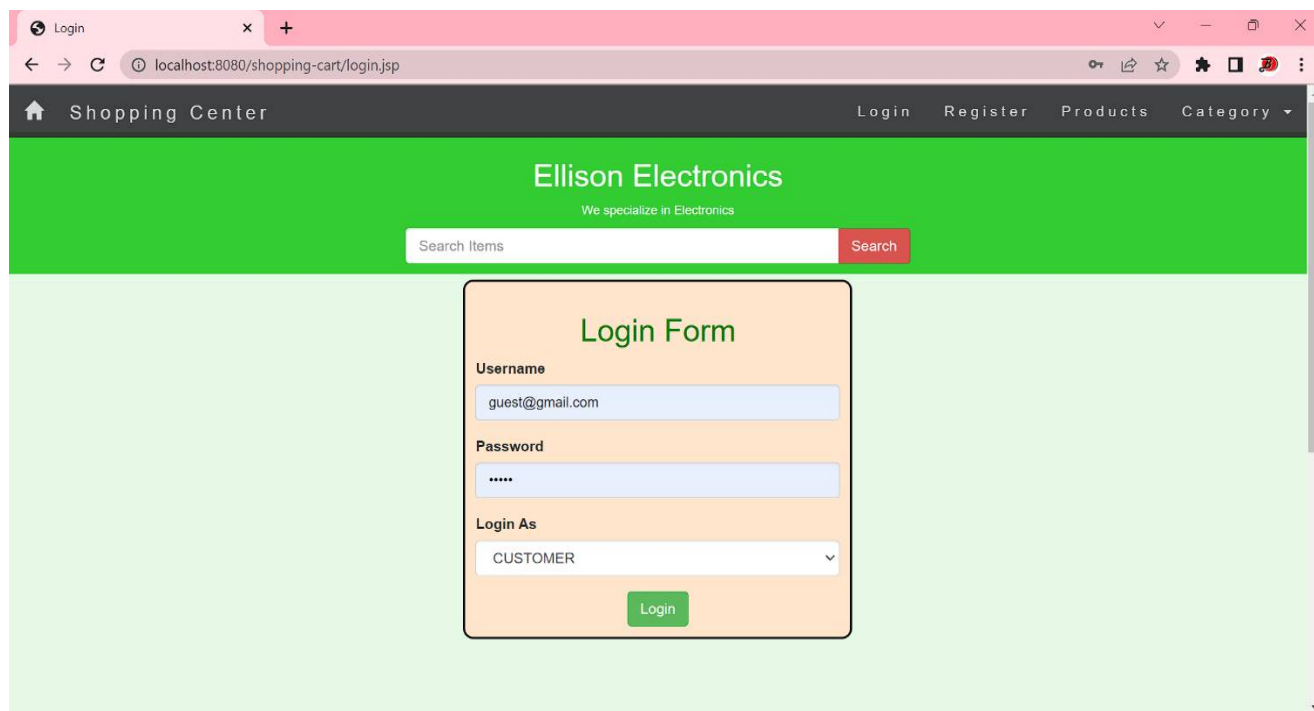


Post-launch, real-time monitoring and analytics tools track user behavior to improve performance. SEO strategies, security updates, and customer feedback integration ensure the platform remains competitive and efficient.

### A. Structured Of Web-Application



## B. Screenshot



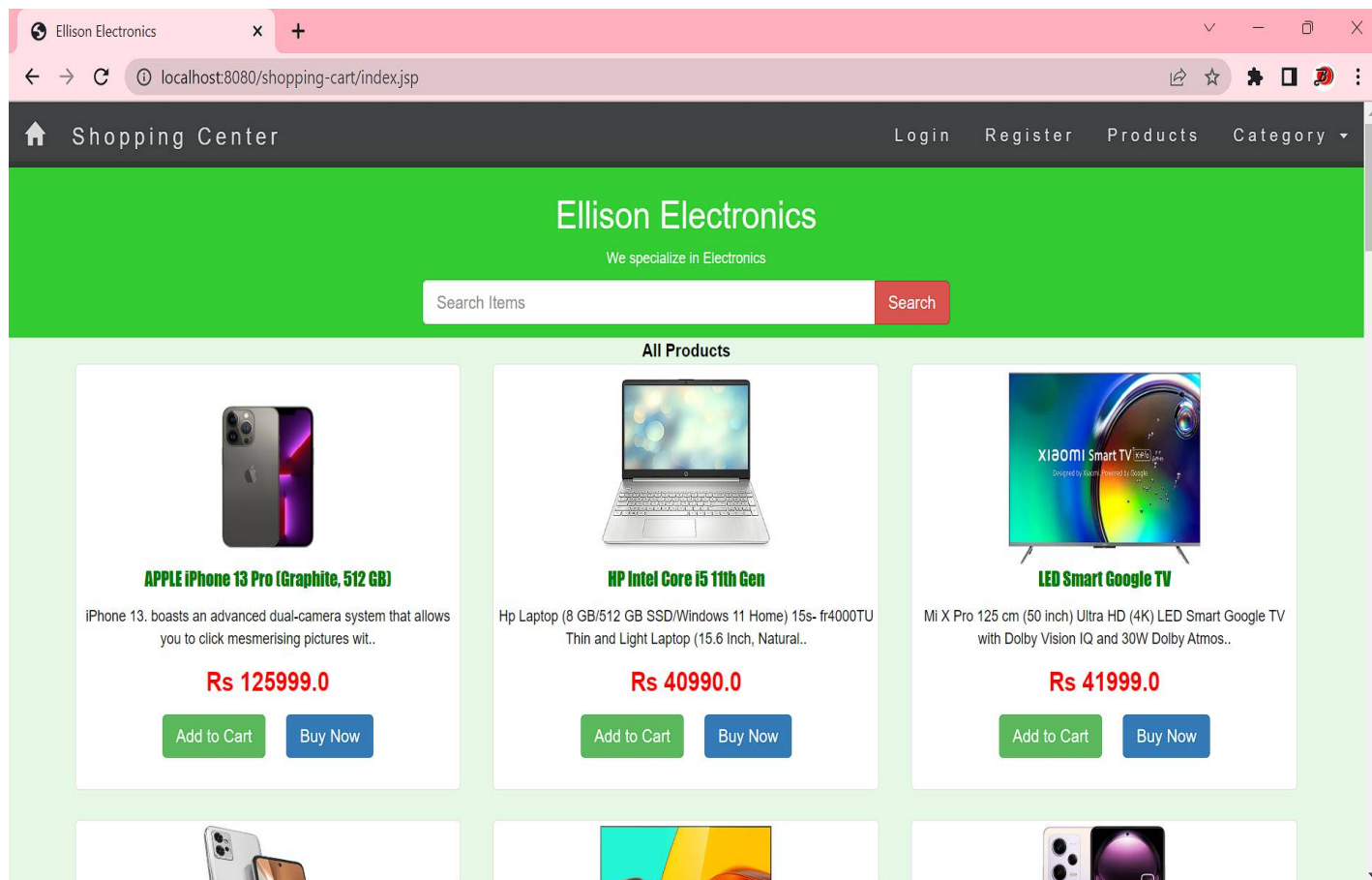
The screenshot shows the login page of the Ellison Electronics website. The page has a green header with the site name and a search bar. Below the header is a light green background with a central orange login form. The form contains fields for Username, Password, and a dropdown for Login As (set to CUSTOMER), along with a Login button.

Username:

Password:

Login As:

Login

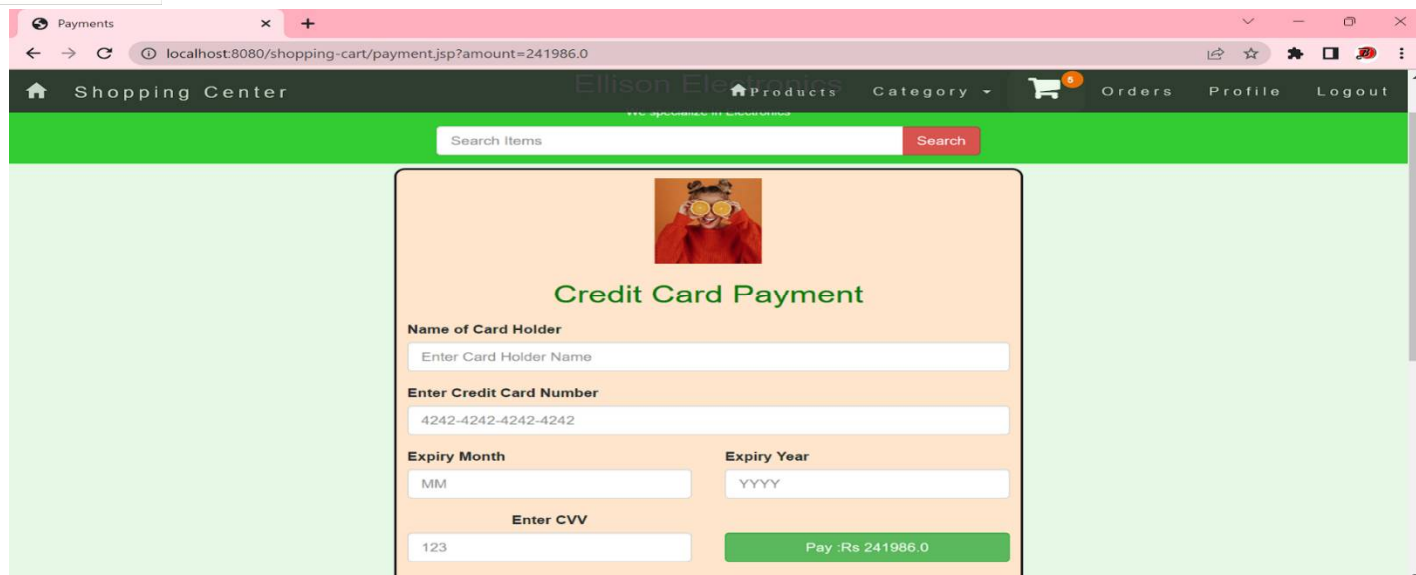


The screenshot shows the product page of the Ellison Electronics website. The page features a green header with the site name and a search bar. Below the header is a light green background with a grid of product cards. Each card displays a product image, name, description, price, and buttons for 'Add to Cart' and 'Buy Now'.

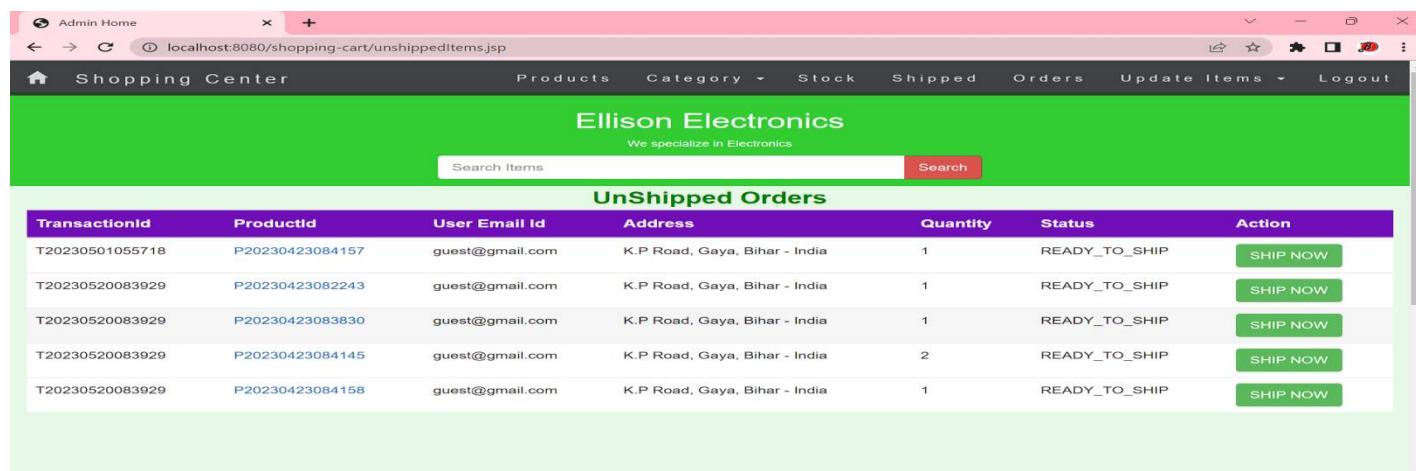
**All Products**

Product Name	Description	Price
APPLE iPhone 13 Pro (Graphite, 512 GB)	iPhone 13. boasts an advanced dual-camera system that allows you to click mesmerising pictures wit..	Rs 125999.0
HP Intel Core i5 11th Gen	Hp Laptop (8 GB/512 GB SSD/Windows 11 Home) 15s- fr4000TU Thin and Light Laptop (15.6 Inch, Natural..	Rs 40990.0
LED Smart Google TV	Mi X Pro 125 cm (50 inch) Ultra HD (4K) LED Smart Google TV with Dolby Vision IQ and 30W Dolby Atmos..	Rs 41999.0





The screenshot shows a web browser window with the URL `localhost:8080/shopping-cart/payment.jsp?amount=241986.0`. The page is titled "Credit Card Payment" and features a form for entering payment details. The form includes fields for the Name of Card Holder, Credit Card Number, Expiry Month, Expiry Year, and CVV. A green "Pay :Rs 241986.0" button is located at the bottom right of the form.



The screenshot shows a web browser window with the URL `localhost:8080/shopping-cart/unshippedItems.jsp`. The page is titled "UnShipped Orders" and displays a table of orders. The table has columns for TransactionId, ProductId, User Email Id, Address, Quantity, Status, and Action. Each row represents an order with a "SHIP NOW" button in the Action column.

TransactionId	ProductId	User Email Id	Address	Quantity	Status	Action
T20230501055718	P20230423084157	guest@gmail.com	K.P Road, Gaya, Bihar - India	1	READY_TO_SHIP	SHIP NOW
T20230520083929	P20230423082243	guest@gmail.com	K.P Road, Gaya, Bihar - India	1	READY_TO_SHIP	SHIP NOW
T20230520083929	P20230423083830	guest@gmail.com	K.P Road, Gaya, Bihar - India	1	READY_TO_SHIP	SHIP NOW
T20230520083929	P20230423084145	guest@gmail.com	K.P Road, Gaya, Bihar - India	2	READY_TO_SHIP	SHIP NOW
T20230520083929	P20230423084158	guest@gmail.com	K.P Road, Gaya, Bihar - India	1	READY_TO_SHIP	SHIP NOW

Hey Shashi,

We are glad that you shop with Ellison Electronics!

Your order has been placed successfully and under process to be shipped.

Please Note that this is a demo projet Email and you have not made any real transaction with us till now!

Here is Your Transaction Details:

**Order Id: T20230428104705**

**Amount Paid: 124988.0**

Thanks for shopping with us!

Come Shop Again!

**Ellison Electronics.**

#### IV. CONCLUSION

Online shopping websites have revolutionized the retail landscape, providing both consumers and businesses with unprecedented opportunities. However, along with the benefits, these platforms face several challenges related to security, logistics, and user trust. As technology evolves, innovations like AR, blockchain, and AI will shape the future of e-commerce, making it more personalized, secure, and sustainable. To stay competitive, companies must continuously adapt to changing market dynamics and customer expectations while ensuring seamless, enjoyable shopping experiences.

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