

# E-Commerce Website For Online Shopping

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**Abstract:** *The online shopping website is a dynamic, user-centric platform designed to facilitate seamless e-commerce transactions. It provides a comprehensive marketplace for sellers to showcase their products and for buyers to explore, compare, and purchase items conveniently. Key features include a robust product catalog, secure user authentication, a responsive user interface, a real-time shopping cart system, and multiple payment gateway integrations for safe and versatile transactions. The platform is built using modern web development technologies, ensuring scalability, security, and an optimized user experience. Additional functionalities such as personalized product recommendations, order tracking, and customer reviews enhance user engagement and satisfaction. The goal is to create an efficient, reliable, and accessible digital shopping experience for a global audience.*

**Key Words :** E-Commerce, Product Catalog, Shopping Cart

## I. INTRODUCTION

The ‘Online Shopping System’ Services department strives to provide solutions to develop and transfer easy and efficient way in the digital age and to help reduces the human pressure and time. To help support shop collections, the digital initiatives, and external partner institution digital projects, It provide services that include the digitization of analog objects, metadata management, digital preservation, and discovery and access of digital collections. “Online Shopping System” is a web application written for all operating systems, designed to help users maintain and organize shop virtually. This software is easy to use for both beginners and advanced users. It features a familiar and well throughout, an attractive user interface, combined with strong searching Insertion and reporting capabilities. The report generation facility of shop system helps to get a good idea of which are the various items brought by the members, makes users possible to get the product easily.

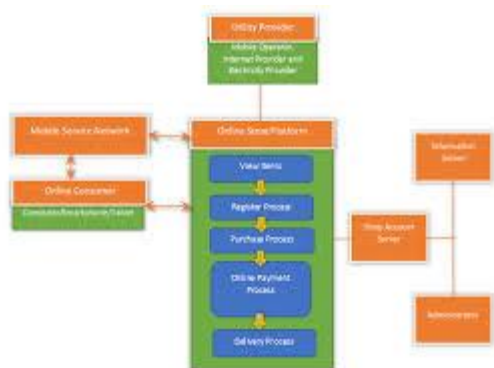
### I. SOFTWARE ANALYSIS

- Operating System - Windows 7
- Front End - HTML, CSS, JAVASCRIPT
- Back End - DJANGO, PYTHON
- Database - SQLITE3 Web Server HEROKU Web Browser Mozilla Firefox, Google Chrome

### III. MODULES

- Importing the packages
- Encode the categorical variables
- Identifying features to build the ML pipeline
- Splitting of data
- Performance Prediction using SVM

### ARCHITECTURE DIAGRAM



## V. RESULT

### Home Page

- Navigation Bar: Links to categories, search bar, user profile, cart, and other features.
- Banner/Carousel: Highlighting discounts, deals, and new arrivals.
- Featured Categories: Showcasing product categories (e.g., electronics, fashion, home essentials).
- Trending Products: Displaying popular or high-demand items.

### Product Pages

Category Pages: Organized by product type, such as electronics, fashion, or groceries.

#### Product Listing:

- Product images
- Name and description
- Price and discount
- Add-to-cart button
- Filters and Sorting: Based on price, ratings, popularity, and availability.

#### Product Details Page

- High-Quality Images: Multiple views and zoom-in options.
- Detailed Description: Features, specifications, and sizes.
- Pricing and Offers: Clear display of price, discounts, and special deals.
- Customer Reviews: Ratings and feedback from previous buyers.
- Stock Availability: Indicating items in stock or out of stock.

#### Cart Page

- Product List: Items added to the cart with quantity adjustments.
- Price Summary: Subtotal, taxes, discounts, and total price.
- Remove Option: Ability to remove items.
- Proceed to Checkout: Button to finalize the purchase.

#### Checkout Page

- Delivery Information: Address form or pre-saved addresses.
- Payment Options: Credit/Debit cards, UPI, PayPal, or COD.
- Order Summary: Final overview of items and prices.

#### User Account Pages

- Profile Management: Update personal information.
- Order History: Track and view previous purchases.
- Wishlist: Save items for future consideration.

#### Admin Panel (if you're building it)

- Product Management: Add, update, or delete products.
- Order Management: Track and process user orders.
- User Management: Manage user accounts.
- Analytics Dashboard: View sales data and performance metrics.

#### Additional Features

- Search Functionality: Instant product suggestions and results.
- Live Chat Support: Chatbox for customer inquiries.
- Mobile-Friendly Design: Optimized for smartphones.
- Security Features: SSL encryption for safe transactions.

## VI. CONCLUSION

This project is only a humble venture to satisfy the needs in a shop. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the organization. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses. This website provides a computerized version of shop manipulate system which will benefit the users as well as the visitor of the shop. It makes entire process online where users can search product, and buy various product. It also has a facility for common user by login into the system where user can login and can see status of ordered item as well request for items or give some suggestions. It provide the facility of admin's login where admins can add various item, review users activity and also give occasional discount and also add info about different events for the customer.

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