

# E-COMMERCE WEBSITE — FINAL PROJECT DOCUMENTATION

Version: 1.0

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Technology: PHP, MySQL, HTML, CSS, JS, Bootstrap

## 1. INTRODUCTION

This project is a fully functional E-Commerce Website allowing customers to browse products, add items to their cart, and place orders. It also includes a complete Admin Panel to manage products, categories, orders, customers, and website content.

## 2. SYSTEM OVERVIEW

User Frontend:

- Home
- Product Listing
- Product Details
- Cart
- Checkout
- Login/Register
- Order History

Admin Backend:

- Dashboard
- Product Management
- Category Management
- Order Management
- Customer Management
- Banner Management
- Website Settings

## 3. SYSTEM FEATURES

User Features:

- Dynamic home page
- Category filter
- Product detail
- Add to cart
- Checkout
- User login/register
- Order history

Admin Features:

- Secure login
- Dashboard stats
- CRUD for products
- CRUD for categories
- Order status update
- Customer management
- Slider/banner management

#### 4. SYSTEM ARCHITECTURE

Frontend (HTML/CSS/JS) → PHP Controllers → MySQL Database

#### 5. TECHNOLOGY STACK

Frontend: HTML, CSS, Bootstrap

Backend: PHP

Database: MySQL

Server: Apache

Security: SSL, Password Hashing

#### 6. DATABASE DESIGN

Tables:

- users
- categories

- products
- cart
- orders
- order\_items

## 7. USER FLOW

Home → Category → Product → Add to Cart → Checkout → Place Order

## 8. SECURITY

- Password hashing
- SQL injection protection
- HTTPS
- Session management
- Image validation

## 9. FILE STRUCTURE

/admin

/frontend

/includes

/uploads

## 10. FUTURE ENHANCEMENTS

- Payment integration
- Coupons
- Wishlist
- Product reviews
- Notifications

## 11. CONCLUSION

This is the final approved document for building the complete E-Commerce Website.