

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.