

ONLINE SHOPPING PORTAL

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Abstract—

The Shopping cart is mainly useful for who haven't time to go to shopping, those are just entered into this website and bought what ever they want. Even it is night or morning they entered into this site, and chosen different items like fruits, books, toys etc. 'Customer is our god' mainly this website is based on this formula. After chosen items he bought into Pay pal process like VISA or MASTER credit cards or any Debit cards are accepted in this website. Customer is happily shopping at his rest place.

Keywords:

HTML, CSS, PHP, MySql, XAMPP

I. INTRODUCTION

The rapid growth of e-commerce has transformed traditional shopping methods, offering customers the convenience of purchasing products from anywhere at any time. This project, titled *Online Shopping Portal*, aims to replicate the core functionality of an e-commerce website using HTML, CSS, JavaScript, PHP, and MySQL, hosted on a XAMPP server. The system enables users to browse products, register, log in, add items to a cart, and complete purchases securely. It also includes an admin panel for managing inventory and orders. This portal provides a practical understanding of web development and backend integration for online retail operations.

II. LITERATURE REVIEW

Several studies emphasize the growing significance of online shopping portals in modern commerce. Research indicates that web technologies like HTML, CSS, JavaScript, and PHP are effective in building dynamic and user-friendly shopping platforms. The importance of secure user authentication, product management, and payment integration is widely recognized. Literature also suggests that a responsive design and simplified navigation enhance user experience. Server-side scripting with PHP and MySQL ensures efficient data handling and transaction processing. This project aligns with existing research by implementing a full-featured e-commerce portal using XAMPP, ensuring functionality, security, and usability across all components.

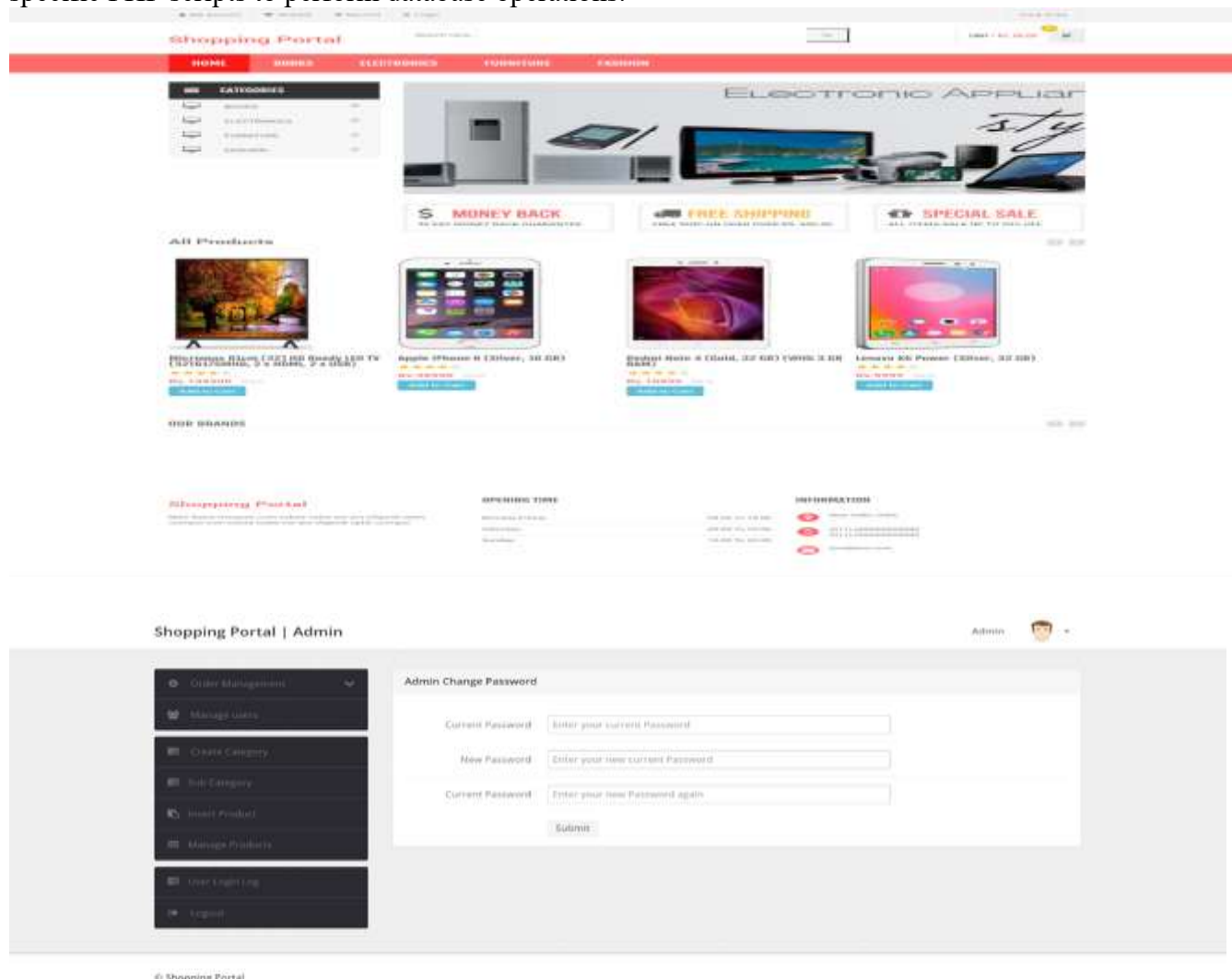
III. SYSTEM DESIGN

The online shopping portal follows a structured three-tier architecture: the Presentation Layer, Application Layer, and Data Layer. The **Presentation Layer** is developed using HTML, CSS, and JavaScript to provide a responsive and user-friendly interface where users can browse products, add items to the cart, and place orders. The **Application Layer** is built with PHP and handles the business logic, such as user authentication, product filtering, cart management, and payment processing. This layer serves as the bridge between the front-end interface and the database. The **Data Layer** uses MySQL to store and manage all essential data including user accounts, product listings, order history, and payment records. The portal is hosted and tested locally using the **XAMPP server**, which integrates Apache, PHP, and MySQL in a unified environment. This design ensures smooth communication between components and provides a reliable and secure shopping experience for users.

IV. IMPLEMENTATION

The implementation of the Online Shopping Portal involved both front-end and back-end development. The front-end was designed using HTML and CSS to create a user-friendly interface that includes features such as product listings, search functionality, a shopping cart, and user authentication pages.

JavaScript was used to enhance interactivity and provide dynamic content updates, such as real-time cart updates and form validations. The back-end was developed using PHP, which handled server-side logic such as user registration, login authentication, product management, and order processing. Data was stored and retrieved from a MySQL database, which was managed through phpMyAdmin on the XAMPP server. Each user interaction, such as adding products to the cart or placing an order, triggered specific PHP scripts to perform database operations.



V. RESULTS

Test cases are derived to ensure that all statements in the program have been executed at least once during testing and that all logical conditions have been executed.

Using White-Box testing methods, the software engineer can drive test cases that

- Guarantee that logical decisions on their true and false sides.
- Exercise all logical decisions on their true and false sides.
- Execute all loops at their boundaries and with in their operational bounds.
- Exercise internal data structure to assure their validity.

The test case specification for system testing has to be submitted for review before system testing commences.

VI. CONCLUSION

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

- Automation of the entire system improves the efficiency

- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

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