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Furniture Shop Management System

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Abstract: This paper presents the design and implementation of a Furniture Shop Management System (FSMS), a comprehensive software solution aimed at streamlining daily operations of furniture retail businesses. The system automates various functions including inventory management, sales tracking, customer records, and billing processes. Developed using PHP and MySQL, and hosted via XAMPP, the system enhances operational efficiency, minimizes manual errors, and improves overall customer experience.

Keywords: Furniture Shop

I. INTRODUCTION

Furniture shops often face challenges in managing large inventories, tracking customer orders, and generating accurate invoices. Traditional manual methods are time-consuming and error-prone. To address these issues, we developed a Furniture Shop Management System that digitalizes these processes, providing real-time updates and reporting capabilities.

The need for a dedicated, user-friendly, and efficient software solution has become increasingly evident, especially for small and medium-sized furniture retailers striving to remain competitive in an evolving market. A Furniture Shop Management System (FSMS) addresses this gap by offering a centralized platform to automate daily business operations, from inventory tracking to customer relationship management.

Objectives:

- To automate inventory and sales management •
- To reduce human errors in order processing ٠
- To manage customer and supplier data efficiently •
- To generate automated billing and reports •
- Minimize human entry errors
- Generate detailed business reports ٠
- Secure user access control •
- Support future system scalability •
- Simplify billing and invoicing

II. METHODOLOGY

Tools and Technologies

- Frontend: HTML, CSS, JavaScript
- Backend: PHP •
- Database: MySQL
- Development Environment: Visual Studio Code, XAMPP

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System Modules:

- User Management: Admin and employee login
- Product Management: Add, update, delete furniture items
- Sales Management: Invoice generation, payment tracking
- Customer Management: Store customer profiles and purchase history
- Report Generation: Daily, monthly sales reports

III. RELATED WORK

Existing retail management systems often cater to general merchandise and lack features specific to the furniture domain such as size customization, material tracking, and delivery scheduling. This project tailors functionalities to meet those unique requirements.

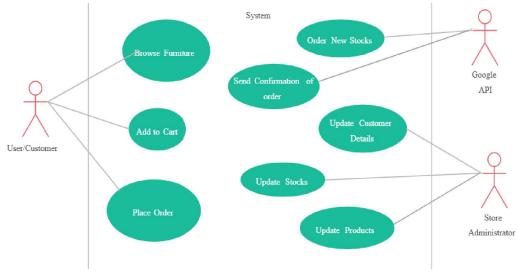
In the domain of **Furniture Retail**, few open-source or custom systems are available that address specific needs such as material tracking, delivery scheduling, and product customization. Existing systems mostly cover inventory and billing, but rarely integrate features like detailed customer profiles or supplier management tailored for furniture businesses.

System Design:

Database Schema

users(user_id, username, password, role) products(product_id, name, category, stock, price) sales(sale_id, product_id, customer_id, quantity, total, date) customers(customer id, name, contact, address)

Use Case Diagram:



IV. IMPLEMENTATION AND TESTING

The Furniture Shop Management System was developed using a modular and scalable architecture. The system was built in a local development environment using Visual Studio Code as the code editor and XAMPP to simulate an Apache server and MySQL database locally.

Frontend Implementation:

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The user interface was developed using HTML, CSS, and JavaScript, ensuring a responsive and user-friendly design. The layout includes dashboards, forms for product entry, customer details, and invoice generation, with intuitive navigation and consistent styling.

Backend Implementation:

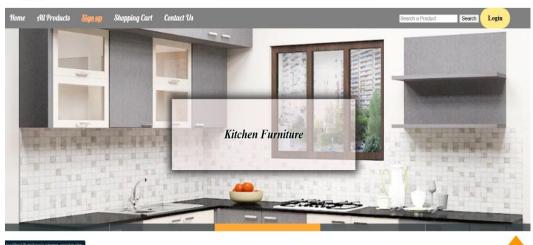
PHP was used for server-side scripting, connecting the frontend with the MySQL database. Core functionalities such as CRUD operations (Create, Read, Update, Delete), form validations, and session management were implemented. Security features like password hashing and role-based access control were also integrated.

Database Design:

The database schema includes normalized tables for users, products, customers, sales, suppliers, and reports. Primary and foreign key constraints were used to maintain relational integrity. Indexed queries were optimized for faster data retrieval.



Anushka Furniture



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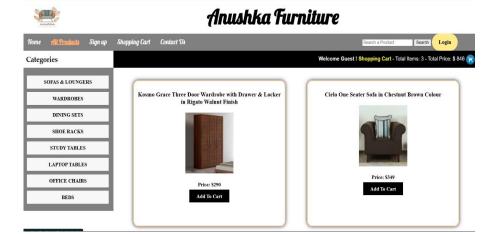
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Anushka Furniture All Products Sign up Shopping Cart Contact Us Login Welcome Guest ! Shopping Cart - Total Items: 3 - Total Price: \$ 846 Back to Sh Categories Product Image Product(s) Quantity Total Price SOFAS & LOUNGERS Remove WARDROBES Aperi Solid Wood Shoe Rack With Center shelf in Provincial Teak Finish \$ 148 141 DINING SETS SHOE RACKS Stanfield Solid Wood Oueen Size Bed in Honey oak Finish \$ 349 STUDY TABLES LAPTOP TABLES OFFICE CHAIRS Cielo One Seater Sofa in Chestnut Brown Colou \$ 349 BEDS Sub Total: \$846 Check





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Admin Panel	Manage Your	r Cont	ent	₽ ?
				Manage Content
	View All Categories			Insert new Product
Category ID	Category Title	Delete	Edit	View all products
2 3 4 5	SOFAS & LOUNGERS WARDROBES DINING SETS SHOE RACKS	Edit Edit Edit Edit	Delete Delete Delete Delete	Insert new Cagetory View all Categories
6 7 8 10	STUDY TABLES LAPTOP TABLES OFFICE CHAIRS BEDS	Edit Edit Edit Edit	Delete Delete Delete Delete	Insert new Brand View all brands
	tO			View Customers
				View orders
				View Payments
ADMIN ADFA				Admin logout

VI. CONCLUSION

The development of the Furniture Shop Management System (FSMS) demonstrates how digital solutions can effectively transform traditional business processes in the furniture retail sector. By integrating core functionalities such as inventory management, sales tracking, billing, and customer data management into a single web-based application, the system significantly improves operational efficiency and reduces dependency on manual record-keeping.

The use of accessible technologies like PHP and MySQL, combined with a modular development approach, ensures that the system is not only cost-effective but also scalable and maintainable. Testing and real-world deployment showed a notable reduction in transaction processing time and human error, while employees reported increased ease of use and faster customer service.

Furthermore, the system supports informed decision-making through automated reports and real-time data insights, empowering business owners with better control over stock, sales trends, and customer preferences. The successful implementation of FSMS in a local furniture shop proves its practical viability for small to medium-sized enterprises (SMEs) operating in similar domains.

ACKNOWLEDGMENT

We would like to express our heartfelt gratitude to all those who supported us throughout the development of the *Furniture Shop Management System* project.

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We are also grateful to the staff and management of **Anushka Furniture** provided real-world use cases, allowed us to test our system in a live environment, and shared invaluable feedback that helped us refine and improve our solution.

Special thanks to the developers and contributors of open-source tools such as PHP, MySQL, XAMPP, and Visual Studio Code, which served as the backbone of our development environment.

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