Showroom Management System

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Abstract- *The Showroom Management System is designed to simplify and automate the daily operations of vehicle and product showrooms. It allows users to add, update, delete, and view product information such as car/bike names, features, categories, and pricing. The system ensures faster data handling, reduces human error, and improves customer experience by providing real-time product details. Developed using PHP and MySQL, the project offers a reliable, scalable, and user-friendly platform for showroom operators, customers, and administrators.*

Keywords- Showroom Management, PHP, MySQL, CRUD Operations, Automation, Product Management, Web Application

I. INTRODUCTION

A showroom typically deals with large volumes of product information such as models, specifications, prices, categories, and availability. Managing this data manually is time-consuming and error-prone.

The Showroom Management System provides a digital solution that centralizes all product-related operations. It helps both customers and managers by offering a dynamic interface where records can be easily managed.

The project uses PHP for backend logic and MySQL for database storage, ensuring smooth connectivity and fast data retrieval. It eliminates the need for paper-based management and improves operational efficiency.

II. MARKET & USER RESEARCH

Showrooms have transitioned from manual recordkeeping to digital solutions due to increasing customer demand for quick, accurate information. Market research highlights the following points:

- **Growing digitalization in automobile and product showroom sectors.**
- **Users expect real-time updates** on models, pricing, stock, and offers.
- **Showroom managers require easy tools** for modifying product data (CRUD operations).
- Many small and medium showrooms still lack a proper management system, creating a **large opportunity** for simple web-based solutions.
- Customers prefer platforms where they can **compare models** and gather product details before visiting the store.

The research indicates that a lightweight, flexible web application like this project can significantly enhance business operations and customer satisfaction.

CONSTRUCTION

- **Requirements Identified** – Collected needs for managing cars, categories, and prices.
- **Database Designed** – Created tables for products and categories in MySQL.
- **Frontend Built** – Developed simple forms and pages using HTML/CSS/JS.
- **Backend Developed** – Wrote PHP code for add, edit, delete, and view operations.
- **Connectivity Added** – Connected PHP pages with MySQL database.
- **Testing Done** – Checked all CRUD functions and fixed errors.
- **Deployment** – Hosted the system locally on XAMPP/WAMP.

Hardware Technology:

Laptop:

Creating a project, especially one that involves tasks like web development, programming, graphic design, or even data analysis, often requires a reliable and capable laptop. An Intel Core i5 processor is a popular choice for such projects due to its balance of performance and affordability. Let's delve into how an i5-equipped laptop can be beneficial for creating a project:

"A laptop is a portable computing device that serves as a versatile tool for various projects. Its compact size and mobility make it ideal for working on the go. When considering a laptop for a project, factors such as processor speed, RAM capacity, and Storage **crucial**.

Software Technology:

1)VS CODE

Visual Studio Code (commonly referred to as VS Code) is a powerful source-code editor developed by Microsoft for Windows, Linux, and macOS. It supports a wide range of programming languages, including C, C#, C++, Fortran, Go, Java, JavaScript, Node.js, Python, Rust, and Julia. Built on the Electron framework, it enables the development of Node.js-based web applications that run on the Blink layout engine. Key features include debugging support, syntax highlighting, intelligent code completion, snippets, code refactoring, and integrated Git. Users can also customize themes, keyboard shortcuts, and editor preferences according to their workflow.

2)Xampp:-

XAMPP requires only one zip, tar, 7z, or exe file to be downloaded and run, and little or no configuration of the various components that make up the web server is required. The Windows version of XAMPP requires Microsoft Visual C++ 2017 Redistributable.

XAMPP is regularly updated to the latest releases of Apache, MariaDB, PHP and Perl. It also comes with a number of other modules, including OpenSSL, phpMyAdmin, MediaWiki, Joomla, WordPress and more. Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another.XAMPP is offered in both a full and a standard version (Smaller version).

The most obvious characteristic of XAMPP is the ease at which a WAMP webserver stack can be deployed and instantiated. Later, some common packaged applications that could be easily installed were provided by Bitnami.

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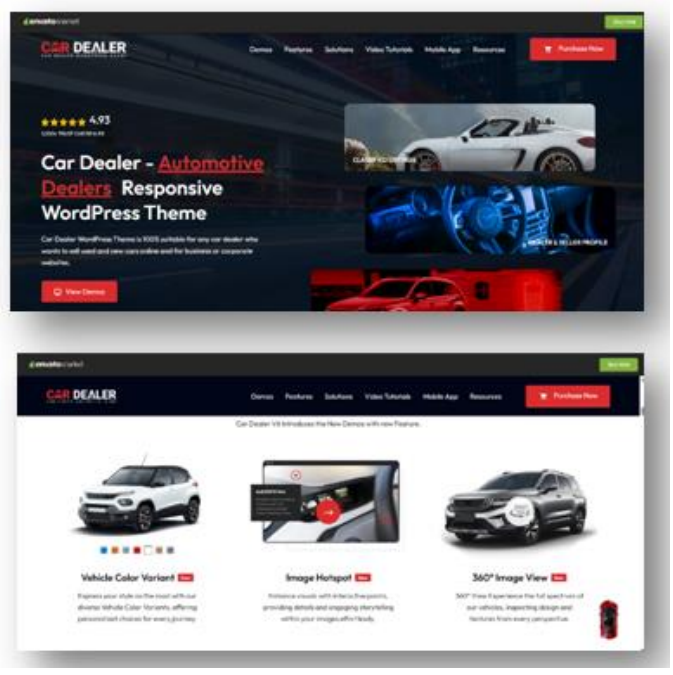
Officially, XAMPP's designers intended it for use only as a development tool, to allow website designers and programmers to test their work on their own computers without any access to the Internet. To make this as easy as possible, many important security features are disabled by default. XAMPP has the ability to serve web pages on the World Wide Web.A special tool is provided to password-protect the most important parts of the package.

III. RESULT, CONCLUSION AND FUTURE SCOPE

RESULT:



The implemented system successfully provides:

- A complete **CRUD-based product management dashboard**.

- A database-driven interface to store and retrieve car/bike details.
- Proper categorization of products (e.g., Petrol, Diesel, CNG, Hybrid).
- Fast loading pages and simple navigation for all users.
- No login barriers—any user can view and modify entries as per project design.
- Error-free data handling with MySQL relational structure.
- Increased efficiency in showroom operations through automation.

CONCLUSION

The Showroom Management System fulfills the need for a reliable and efficient platform to manage showroom products. It removes manual work, reduces errors, and provides faster access to information. By using PHP and MySQL, the system maintains simplicity, scalability, and convenience for both showroom staff and customers. Overall, the project proves to be an effective solution for modern digital showrooms.

Future Scope:

The system can be improved and expanded in the following ways:

- Adding **admin login and role-based access** for better data security.
- Integrating **inventory tracking** and stock updates.
- Providing **customer-facing features** such as product comparison, wishlist, or booking test drives.
- Adding **API integration** for mobile apps and external systems.
- Implementing **analytics and reporting**, such as sales trends or customer interest tracking.
- Adding **image sliders, advanced filters, and category-based search** for better user experience.
- Migrating to **cloud-based hosting** for larger showrooms.

REFERENCES

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