

SE PROJECT SYNOPSIS

Car Showroom Management Group No. : 2

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Project Overview:

Our project aims to develop a Car Showroom Management System to streamline the operations of car showrooms. Whether or not you are an established dealership or a startup in the automotive industry, this system will help you manage inventory, sales, customer relationships etc. all within a single platform.

Project Scope:

The Car Showroom Management System will encompass the following tasks:

1. User Management:
 - Secure login for showroom staff with role-based access (admin, sales, finance, service, manager).
 - User profile management and password reset options.
2. Inventory Management:
 - Add, edit, and delete car listings with detailed information including make, model, year, mileage, price, and images.
 - Categorize cars by make, model, year, and other relevant attributes.
 - Track the status of each car (available, sold, on hold, under maintenance, etc.).
3. Sales and Customer Management:
 - Record and manage customer inquiries, test drives, and walk-ins.
 - Create and track sales orders and invoices.
 - Calculate taxes, discounts, and final sale prices.
 - Maintain a customer database with contact information and purchase history.
4. Financial Management:
 - Track revenue, expenses, and profit margins.
 - Generate financial reports including income statements, balance sheets, and cash flow statements.
 - Integration with accounting software for seamless financial management.
5. Analytics and Reporting:
 - Generate various reports, such as sales performance, inventory turnover, profit analysis, and customer trends.
 - Visualize data through charts and graphs for informed decision-making.
 - Real-time inventory tracking and low-stock alerts.
6. Security and Data Backup:
 - Implement robust security measures to protect sensitive customer and financial data.
 - Regular data backups to prevent data loss.
7. Scalability:
 - Design the system to accommodate the growth of the showroom's inventory and customer base.

Customer Interest:

The project is aimed at car showroom owners and managers for a comprehensive Car Showroom Management System.

This project aims to provide an all-in-one platform that enhances efficiency, reduces administrative overhead, and enables car showrooms to provide exceptional service to their customers.

□ **Functionality:** We will include the following functions and we have mentioned the teammates we have allotted them to.

1. Search (Managed by Samantha):

This includes the design and implementation of a search feature that allows users to efficiently search for cars based on various criteria such as make, model, year, price range, and more

2. Booking (Managed by Sukruthi):

This includes the development of a user-friendly booking system that enables customers to reserve cars for test drives or purchases. This feature will streamline the booking process, ensuring that customers can easily schedule appointments and explore their desired vehicles.

3. Delivery (Managed by Samritha):

The delivery functionality is executed using design and implementation of a smooth delivery management system, ensuring that vehicles are prepared and delivered to customers promptly.

4. Payment (Managed by Janani):

This includes development of a secure and efficient payment processing system that allows customers to complete transactions seamlessly. This feature will support various payment methods, including credit cards, digital wallets, and financing options, ensuring a hassle-free purchasing experience.

□ **Qualitative property:**

In addition to the list of functional features outlined for the Car Showroom Management System, we are committed to contributing several qualitative properties that will enhance the overall value and performance of the system:

1. Performance Optimization:

We will dedicate a significant portion of our project effort to fine-tuning the system's performance. Our goal is to ensure that the system can handle a large volume of data and user interactions without compromising response time.

2. User Interface (UI/UX) Enhancement:

A user-friendly and intuitive interface is paramount for the success of the Car Showroom Management System. We will develop and design a clean and easy-to-navigate interface for tasks such as adding cars to inventory, managing customer relationships, and analyzing sales data.

3. Data Confidentiality:

Protecting sensitive data is of utmost importance. Specific sets of data, such as customer financial information, will be safeguarded through encryption and regular security audits to maintain the trust of our users.

Product ownership is a critical aspect of our project, and each team member will play a clearly defined role to achieve these qualitative properties. Our team includes dedicated individuals responsible for performance optimization, UI/UX design and evaluation, and data security. By focusing on both functional features and qualitative properties, we aim to deliver a Car Showroom Management System that not only meets but exceeds the expectations of our customers, providing them with a competitive edge in the automotive industry.