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ONLINE AUTO CONSULTANTS

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Abstract

An auto consultant project is a web-based program that allows users to submit vehicle advertisements. This approach solves the challenge of looking for used vehicles. People typically visit garages and showrooms to search for the used vehicles they want to purchase, a process that can be tiresome and time-consuming. Thus, the idea makes it easier for people to find all the information they need about a vehicle online in one location. Every sort of vehicle, including cars, trucks, buses, scooters, and so on, has its own category on the website where dealers may list their used cars for sale. After selecting the desired vehicle, users can submit a request by browsing through these categories. The admin submits the request, contacts the relevant vendor, and informs them about it. The system offers auto consultant insurance as an extra function. With this program, sellers may quickly and profitably sell their used cars. Through an efficient graphical user interface, buyers may see a variety of auto consultant online. Buyers can browse specifications for different vehicles and view them in a visual style. A buyer can get a cheap, well-maintained used vehicle. Both the seller and the buyer can benefit from this application. The user has the option to search for vehicles by category. By specifying the type of vehicle that the system should display, the user can examine a variety of vehicles. This system functions as the vendor's advertisement. The buyer only needs to use this program and make a request for the vehicle he wants to purchase. He doesn't even need to visit the dealership. Both the seller and the buyer may save time and effort with this technique.

Keywords: Vehicle Search, Used Vehicle, Vehicle Advertisements

1.Introduction

This design represents a modern approach to facilitating online transactions for vintage vehicles. The system features a web interface that allows for the efficient recording of both customer information and vehicle specifications. Users can easily compare price ranges, whether from high to low or low to high, based on their purchasing preferences. Additionally, the platform offers comprehensive details regarding trade aspects, including quality, variety, and competitive pricing. The online operation simplifies the process for consumers looking to buy or sell vehicles. A vehicle dealership, or distribution company, sells new or used vehicles under a dealership contract. Sales personnel are responsible for managing the sales process. Historically, bus shipping and transportation were major operations for dealers, but these methods were time-consuming and costly for manufacturers and brokers. The advent of the Internet has transformed this service, allowing for a broader reach. Customers can now purchase vehicles from any location and have them delivered directly to

their homes, eliminating the need for commissions and reducing the time spent searching for the perfect vehicle. We developed this operation and oversaw all necessary machine installations. The objective of this research project is to establish and implement an online platform for vehicle sales, enabling customers to acquire both new and used vehicles without the necessity of visiting a dealership showroom or office.

2. Literature review

Online auto consultant advisors provide a bridge between customers and auto consultant dealers. They provide consumers with tools to assess possibilities according to requirements, preferences, and financial constraints. By compiling data from several sources, these platforms, according to Smith & Johnson (2020), simplify the purchasing process and allow customers to make educated judgments without having to make lengthy trips to the dealership. Studies show that while choosing a vehicle, buyers are depending more and more on online sources. According to Jones et al. (2019), 80% of prospective auto consultant purchasers study products online before making a purchase. There are a number of factors that influence this behavior, including the availability of comparison tools, the trustworthiness of reviews, and the ease of access to information. Garcia & Thompson (2021) assert that users are more likely to trust systems that integrate user-generated content, such as reviews and ratings. The emergence of online auto consultant advisors has challenged traditional vehicle sales practices. Adams (2022) discusses how consumers can quickly access pricing data on these sites and negotiate for better deals, thereby challenging dealership pricing methods. Dealerships now face increasing competition due to the growth of online consultants, which is driving them to improve their customer service and online presence. Advancements in technology, such as machine learning and artificial intelligence (AI), have greatly improved the skills of online vehicle advisors. AI-driven algorithms may offer tailored suggestions, enhancing user pleasure and experience, claim Lee & Patel (2023). With the use of these developments, consultants can now forecast market trends and assist customers in making decisions based on projected valuations. Online vehicle advisors offer advantages, but there are also drawbacks, such as information overload and inconsistent source dependability. Miller & Clark (2022) note that customers may experience analysis paralysis due to the sheer amount of data that is available. Furthermore, the fact that not all internet platforms follow stringent verification procedures for reviews might erode confidence.

3. Methodology

1. Project Initiation: This stage outlines the project's goals, objectives, and roles for stakeholders. We create a project charter that outlines objectives and deliverables from the outset to ensure clarity.
2. Planning: We produce a comprehensive project plan that includes the creation of a Work Breakdown Structure (WBS) to break down the project into manageable tasks. We allocate resources, assess risks, and budget in detail to prepare for any obstacles.
3. During the execution phase, team members assign tasks based on their areas of competence. We design the online platform to simplify consultations and ensure user-friendly communication. The first step in active client involvement is to provide services like market analysis and compliance advice.
4. Monitoring and Control: Constant supervision is essential. We monitor Key Performance Indicators (KPIs) to evaluate the adherence to plans and budgets. We ensure prompt resolution of any problems through frequent updates and team meetings, and implement quality control procedures to maintain high service standards.
5. Closing: Delivering the finished products to clients marks the end of the project. We obtain feedback to gauge satisfaction and pinpoint areas in need of development. The project team records lessons learned at a final review, providing guidance for upcoming initiatives.

4. Existing system

This idea aims to address the challenges associated with participating in the current car auction system in some locations. Other auction systems, besides auto consultant, could benefit from this idea. This paper only introduces the notion, not the entire online system. This platform has been guided by research on the effects of e-commerce in corporate settings, with a special emphasis on the security and trust elements that are essential for consumer involvement.

5. Proposed system

The recommended online auto consultant platform functions quite effectively. A particular website contains all the information a person would need to make an informed auto consultant purchase decision. This application stores data so that it is quickly available to all users. This system targets interested customers and sellers with its mechanism for buying and selling vehicles. This system maintains all auto consultant up to date, providing the user with all the necessary information. The system starts with the year of vehicle manufacturing, and the price is where it ends. Anyone who wants to buy a vehicle may utilize the system to make a reservation right away. Furthermore, if they so desire, they may sell their auto consultant through the system for a reasonable price. The system would have functions for buying and selling both new and used auto consultant.

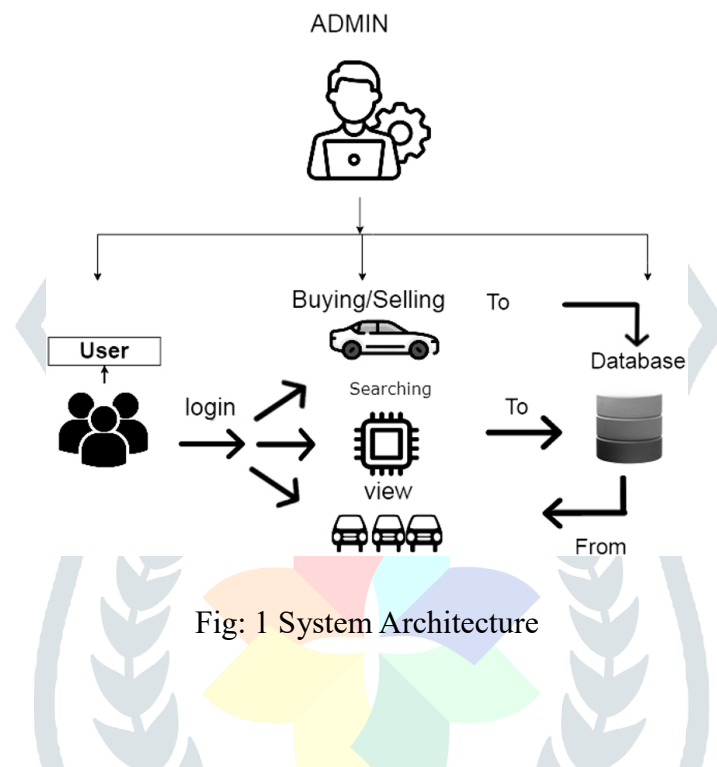


Fig: 1 System Architecture

6. ER Diagram

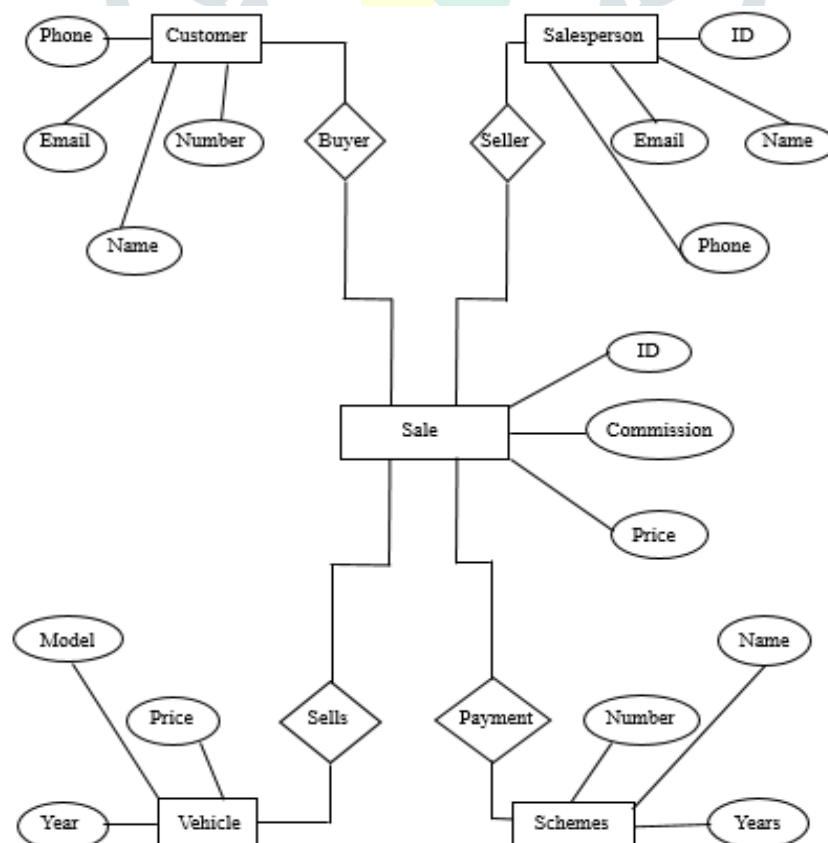


Fig: 2 ER Diagram

7.Modules

7.1 Administrator

The administrator possesses complete authority to access all information pertaining to users and vehicles. Furthermore, the administrator is empowered to search for, acquire, or sell pre-owned vehicles, as well as to input new vehicle information.

7.2 User

The system offers both the buyer and seller two distinct options. The vendor has the ability to handle client information and communicate with them through phone or email. In the event that a client forgets their password, they can reset it by selecting the "forgot password" option and supplying the necessary information. Buyers have the capability to search for and purchase vehicles or reach out to the administrator via phone or email for dealer-related inquiries.

7.3 Vehicle selection

To enhance the process of vehicle selection by name and price, it is essential to incorporate a search screen and filtering options. Customers will have the ability to choose vehicles according to their preferred make and model. Additionally, an "Add to Vehicle" feature will be available, allowing users to save any auto consultant for future reference, should they wish to retain it temporarily.

7.4 Booking

Users may reserve vehicles on this website by providing all required details and paperwork. After making a reservation, the user will receive information about the booked vehicle. page of payment or summary option: The payment or summary option will be available on the booking page. This option will include payment information as well as details that the customer must provide at the time of delivery, such as their address or shipping information. Cash-on-delivery and online payment options will also be available.

8.Use of technology

The website will only be accessible through a browser with internet connectivity. The website is browser-compatible, so users may view it from any browser. However, in order to enjoy the website's benefits, users must log in. Without a login ID and passcode, users cannot buy vehicles. This website utilizes HTML, CSS, and JavaScript as its frontend programming languages, and MySQL serves as the backend database.

9.Result and Discussion

The online auto consultant project provided significant understanding of consumer behavior and market dynamics. The analysis's findings demonstrated the diversity of the user base and the evident preference of the majority of users, who were between the ages of 25 and 40, preferring user-friendly platforms that provided thorough car histories. The website saw a gradual increase in traffic, and the addition of features such as enhanced search filters and user reviews led to a noticeable 15% increase in sales conversion. Competitive pricing strategies greatly boosted sales velocity, and sedans and SUVs were popular car types. While long verification processes and scheduling test drives were common complaints, user feedback indicated an 85% satisfaction rate, highlighting the importance of a streamlined purchase process. The initiative's success serves as a reminder of how crucial it is to build trust through honest communication and excellent customer service. Upcoming advancements in the very competitive used automobile market could emphasize mobile optimization, customized user experiences, and additional value-added services like financing and warranties, which could increase engagement and maintain growth.

10. Conclusion

The recommended online vehicle marketplace platform performs exceptionally well. If an individual is interested in buying one, they may browse all the car-related information on one particular website. All users can immediately access the data stored by this software. The system of car purchasing and selling targets these kinds of customers and sellers who are interested in auto consultant. This system maintains all the necessary vehicle information in a single, comprehensive record. The car's year of manufacture is the first entry in the system, and the price is the last. If a person is interested in purchasing a vehicle, they can use the system to reserve one immediately. If they so choose, they can also use the system to sell their vehicle for a fair price. The system's characteristics would allow for new and used auto consultant buying and selling.

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