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Survey of Bike Showroom Management System

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ABSTRACT: This study describes a management system for bike showrooms that includes several modules, including bill calculation, employee detail, stock information, quotation, and automatic email. By only allowing certain personnel from specified departments access to each module, the system has been created to protect the security of data. Employees can access historical records of bills and the total bill is determined in the bill calculation module. The ability to add, examine, and delete staff data is part of the staff detail module's management of all personnel details. The stock management module allows for the addition, deletion, and viewing of stock data. The automatic email feature sends bills to customers and acts as a reminder for vehicle servicing. This paper also discusses the challenges faced by managers and provides recommendations for future research in this area.

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KEYWORDS: Automobile showroom, Automatic Mail, Bill calculation, Staff details

I. INTRODUCTION

Systems for managing bike showrooms are getting more and more well-liked since they make the procedures involved in operating a showroom more efficient. This survey paper's objective is to investigate the many modules that have been included in a bike showroom management system, such as automatic email, bill calculation, staff detail, stock information, and quotation. The limitation of access to each module to personnel of certain departments is one of the major components of this system, which helps to ensure the security of data. Total bills are computed in the bill calculation module, and a new option has been provided to view previous bills' records.

All personnel details, including adding, viewing, and removing staff details, are managed via the staff detail module. All stock data is managed through the stock management module, which also permits the addition and deletion of stock. Last but not least, the automatic email option automatically emails customers their bills and notifies them when their vehicle is due for service.

The administration system for a bike store appears to be extremely complete, covering a number of crucial areas. Data security is greatly improved by the security feature of limiting access to specified modules. Both administrators and employees can benefit from the prior record viewing option in the bill calculating module. The freedom to manage employee data effectively is provided by the view, add, and remove options in the staff detail module. The ability to add, examine, and delete data in the stock management module can aid in maintaining correct stock records. A great approach to give consumers timely reminders for servicing and paying is using an automatic email option. You can think about integrating advanced analytics capabilities to analyse sales data and improve business operations in order to improve the system's features. Creating a web portal can also give administrators and employees more accessibility and ease. Finding research gaps and implementing these features will make the system run more smoothly and benefit the company even more.

A software programme is called a bike showroom management system, and it is used to handle many parts of a bike showroom. The system is made up of many modules, including those for automatic email, quotation, stock detail, staff detail, and bill calculation. By only allowing specific department employees access to each module, the system assures data protection.

The bill computation module computes the overall bill and offers the option to view earlier bills' data. The staff detail module controls all personnel details and offers features for adding, viewing, and deleting staff data. All stock data is managed through the stock management module, which also offers options for viewing, adding, and deleting

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stock. The automated email feature automatically emails bills to customers and notifies them when any customer's vehicle is due for maintenance. However, sophisticated capabilities, such viewing previous bill records and a mailing, can be added to increase the system's value and effectiveness. Finding research gaps can aid in enhancing the system's usability and functionality.

II. RESEARCH GAP

By limiting access to modules and incorporating new features like automatic email and prior bill record viewing, it appears from our project proposal that we have concentrated on enhancing the security and usability of a bike showroom management system. To give your project more worth, it would be beneficial to pinpoint a research gap that you are bridging with it.

The absence of analytics integration in previously available bike showroom management systems may represent a research gap. By incorporating analytics, we may offer perceptions into customer behaviour, inventory management, and sales trends that can assist increase the effectiveness and efficiency of the system. Real-time data analysis can also assist in identifying possible problems and areas for development, resulting in better decision-making and improved corporate performance.

III. RESEARCH CHALLENGES

Identifying research challenges in our bike showroom management system project can help to enhance the system's features and make it more efficient. Some of the research gaps that can be identified include:

1. Incorporating advanced analytics capabilities to provide insights into the performance of the showroom and make data-driven decisions.
2. Integrating a customer feedback module to gather feedback and suggestions from customers and improve the overall customer experience.
3. Implementing a view bill option in this system to track the record of previous bill and help to track their sales
4. Developing a mobile application that enables customers to book appointments, view bills, and track the status of their vehicles.
5. Adding a social media integration module to promote the showroom's products and services and engage with customers on social media platforms.

By incorporating these advanced features, we can provide even greater benefits to the business and improve the overall efficiency of the system.

IV. MODULE

Based on our requirements, the bike showroom management system is designed to cater to various modules such as bill calculation, staff detail, stock detail, quotation, and automatic email

1. The system ensures restricted access to each module, thus ensuring the security of data
2. The bill calculation module calculates the total bill and also allows the employee to view past records of bills
3. The staff detail module manages all the details of staff, including options such as adding, deleting, and viewing details of employees
4. In the stock management module, all stock data is managed, and new stocks can be added or deleted
5. The automatic email option sends bills automatically to customers' mailboxes and sends reminders whenever their vehicles are due for servicing
6. To improve the system's functionality, advanced features such as analytics,view bill, and a feedback can be incorporated
7. Research gaps can also be identified to improve the system's usability

V. CONCLUSION

It is clear from the features we've listed that your bike showroom management system is a thorough and effective tool for handling many facets of the showroom. The security measures we've put in place, like controlling access to modules and protecting user data, further increase the system's dependability. An further new element that improves ease for both consumers and staff is the implementation of the automatic email capability. Overall, our project makes a substantial

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contribution to the management systems for bike showrooms. To increase the effectiveness and efficiency of the system, it may be worthwhile to investigate the integration of real-time data and analytics in future research.

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