iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 14 **Issue:** III **Month of publication:** March 2026

DOI: https://doi.org/10.22214/ijraset.2026.78179

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International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 14 Issue III Mar 2026- Available at www.ijraset.com

Online Vehicle Service Management System

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Abstract: ***According the latest surveys on the population of human. the population of humans on earth are increasing. Mostly all of us have their own vehicle. So, there is a need of vehicle service centre and the vehicle centre mostly will be busy especially during festive seasons. in older version of this system, they used manual report making which leads to error in collection of vehicle owner details t. Staffs in their service station will not have enough needs to handle many customers at the same time. Thus, with the existing of Vehicle Service Management System Using web application. the vehicle service centre management can be made easily. The objectives of this system are to design and develop a new system which can help to manage task in more organized manner using web application This is the way, by which the task can be handled according to priority of booking time. It is also included a system where the staffs who handle the repair task and distribute the task accordingly. The web application system will assign the repair task to the staff and it also allocate the doorstep pick up of your service. This web application system is used to distribute job task and job schedule .this system is implemented using php with the help of xamp server where enough dataset is stored for implementation of this project.***

Keywords: Php, Web Devolepment, Xamp Server & Manging Task, Scheduling, Allocation of Door Step Pickup Service to the Staff.

I. INTRODUCTION

According to the emerging large production of vehicles in day today life and no of people using vehicle also increase so there is an need of good and cost efficient service centre A vehicles services station has to have facilities to service the vehicles, such as equipment facilitating, wheel alignment so in this project the managing of service for vehicles is done by implementation of web application.in this web application system we have introduced some modules which efficiently deals with the overall task performed in this web application each module deals with specific task which includes admin side, client side during peak time of vehicle service the availability of service centre is comples so in order to overcome this problem our project is implemented using web application where the booking of service made easy this project comes with benefit of doorstep pickup for service of vehicles this system is designed with certain modules which is assigned for performing some task allocated by the service centre.

The old version of this project is done by noting the service manually but this project comes with the modern version of booking an slot for the vehicle service an in this project we provide access to the machinic to track their salary when their task is finished

II. LITERATURE REVIEW

For the literature review of this paper, we have referred to numerous sources like web-portal, journals and conference papers and even some project reports as well. Searching websites using keywords like "Vehicle Service System," "Car Service System," etc. proved quite helpful. Analyses were done on a website called "Gaadizo" in Delhi NCR, for the most part. Former Honda executive Vikas Mitra developed it. There are many service centers operated by Gaadizo, including ones in Noida, Gurgaon, Ghaziabad, etc. The distribution of genuine components, a service warranty, simple service progress tracking, etc. were features of this system [4]. Most of the references found during the literature survey were relevancy to "Vehicle Tracking System", but unfortunately no use for our work, but we also found useful web portals such as "DreamzTech Solution", "CarZ", "The Bike Doctor" and many others. Mazda has created a comparable application.

The headquarters of Mazda Motor Corporation are located in Fuch, Aki District, Hiroshima Prefecture, Japan. This business created an application called "MyMazda." This software helped the user find and map out service centres, set up appointments, and get information about the car. Pepboys (http://www.pepboys.com) also facilitates online vehicle booking services. They made it easy to choose vehicles, choose a place, choose a date, choose a time and make payments online using a credit card only. They also supply their services on a global scale. Also in current scenario, talking about day-to-day activities all the exercises and operations are performed manually in car repair shops. These tasks are either performed by garage owner for the mechanics, by mechanics for the customers or by admin(garage owner) for the customers.

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Few tasks which are not performed by them include:

1) Admin

- Manually handle day to day transactions.
- Lack of proper customer records.
- No live Vehicle service updates.

2) Mechanic

- Lack of a proper mechanism of assigning tasks

. • No frequent sharing of vehicle service status updates.

- No robust records of completed services.

3) Customer

- Cannot give proper feedback
- Viewing bills and invoices
- No live vehicle service status updates
- Explaining the repair task at hand

III. SYSTEM REQUIREMENTS

Table 1:-Hardware Requirements

Processor	Pentium-IV
RAM	256 MB Ram
Disk Space	4GB of Available Hard Disk
Display	1366 X 768 or Higher Resolution

Table 2:- Software Requirements

Operating System	Windows / Linux any one
Programming language	PHP
Web-Technology	Open Source
Front-End	PHP
Back-End	MySQL
Web Server	Apache

IV. ARCHITECTURE DIAGRAM



Fig:- architecture of Online Vehicle Service Management

In addition to the main page, there are two boards: Admin, for example, shop, and customer. After logging in, various services are provided to the customer login. Before starting work, give the shop or car information. Before sending the assignment to employees, the administrator verifies the data about the vehicle and the customer's detailed data. The clients furnish his/her data, explores the area and other information & wait for responses. The proposed system comprises the following modules:

A. Admin Module

The admin (owner) can view details like the total number of customers, mechanics, enquiries, and feedback on the dashboard. The dashboard also shows information about the most recent enquiries made by customers. In the customer management section, the admin can add, update, delete customers, and view customer enquiries and also invoices. The owner can easily manage all the employees of his business with ease on the website. Adding a mechanic manually, updating their salaries, managing their attendance, and approving mechanic job applications are some of the features available to the garage owner. The admin can also issue a letter of appreciation to any mechanic for being a stand-out performer. It might help the mechanic gain some credibility for his future endeavors.

B. Customer Module

In this section, the customer can create a new service request by providing relevant vehicle information and a problem description. The customer can get updated when the request is approved by the admin/manager and also get the approximate budget of the vehicle service. Using the invoice section, customers can manage all their service invoices easily. They can get a detailed breakdown of each component for all their services and also download the billing invoice on their local device with ease. Customers also have the feature to provide feedback to the garage owner regarding the service which can be used to solve customer queries effectively.

V. RESULT

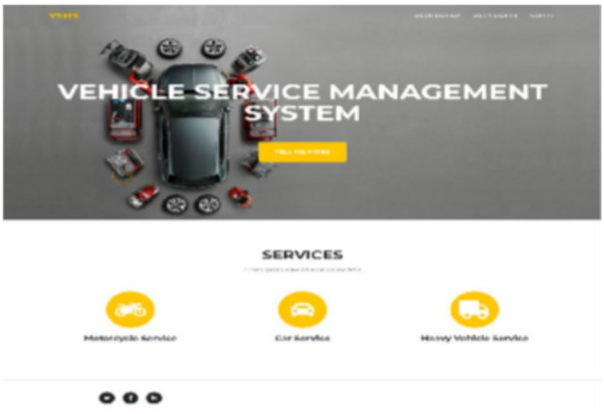


FIG:-Home Page

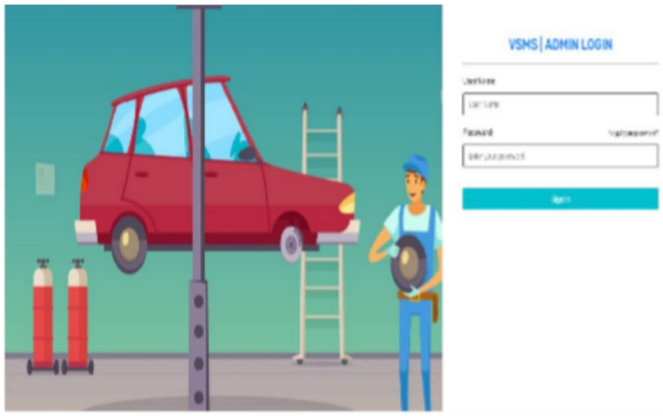


fig:- Admin Login Page



Fig:- Admin Dashboard

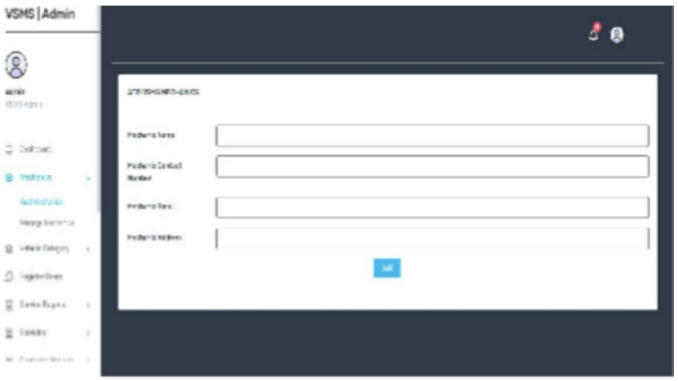


Fig:-Add Mechanics

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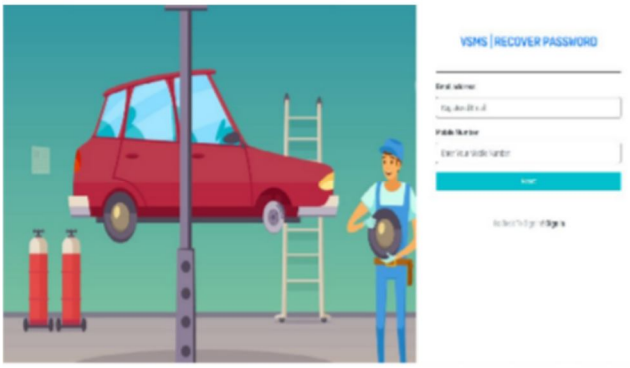


Fig:- Reset Password

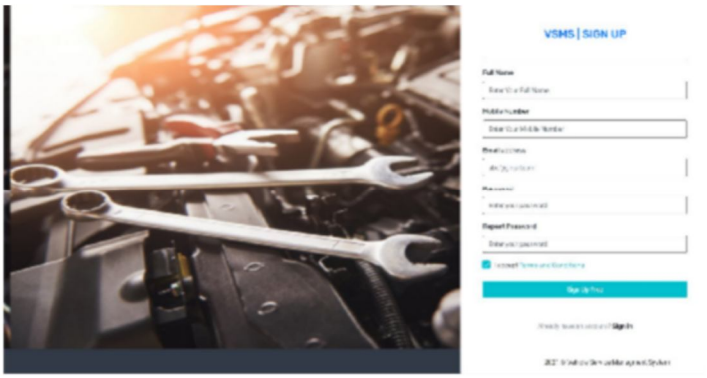


Fig:-user sign in

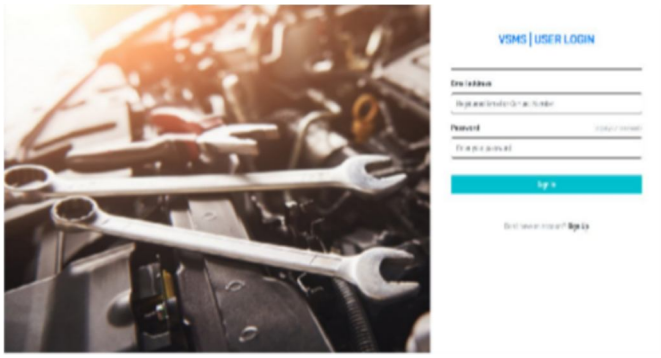


Fig:- User Login



Fig:- User Dashboard

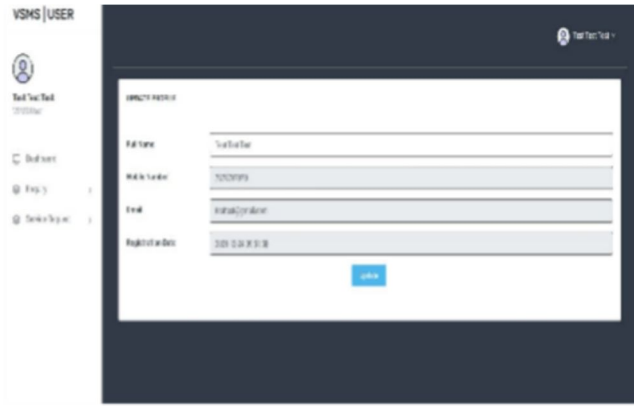


Fig:- User Profile

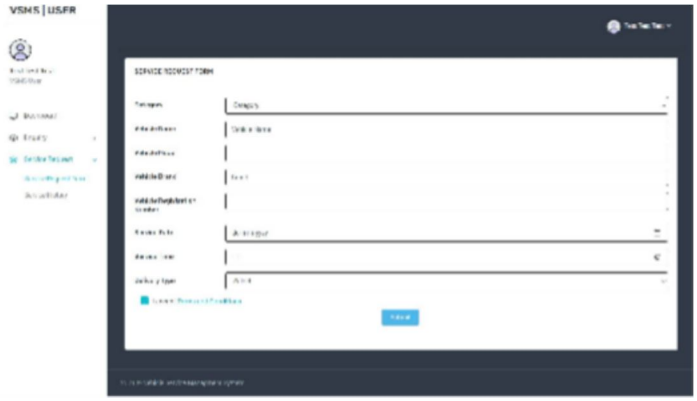


fig:- Service Request Form

VI. FUTURE ENHANCEMENT

While the proposed system is a significant improvement over existing inventory management systems, there is always room for improvement. In the future, we plan to explore the following enhancements: Integration with other retail systems such as point of sale and customer relationship management to provide a more comprehensive solution. Expansion of the system's capabilities to include predictive analytics, allowing retailers to anticipate inventory needs and make more informed purchasing decisions. Implementation of a mobile app, enabling employees to access inventory data on the go and allowing for greater flexibility in managing inventory. Integration with blockchain technology to provide greater security and transparency in the supply chain. By implementing these enhancements, we believe the proposed system can provide even greater value to retailers and help them stay ahead in an increasingly competitive industry.

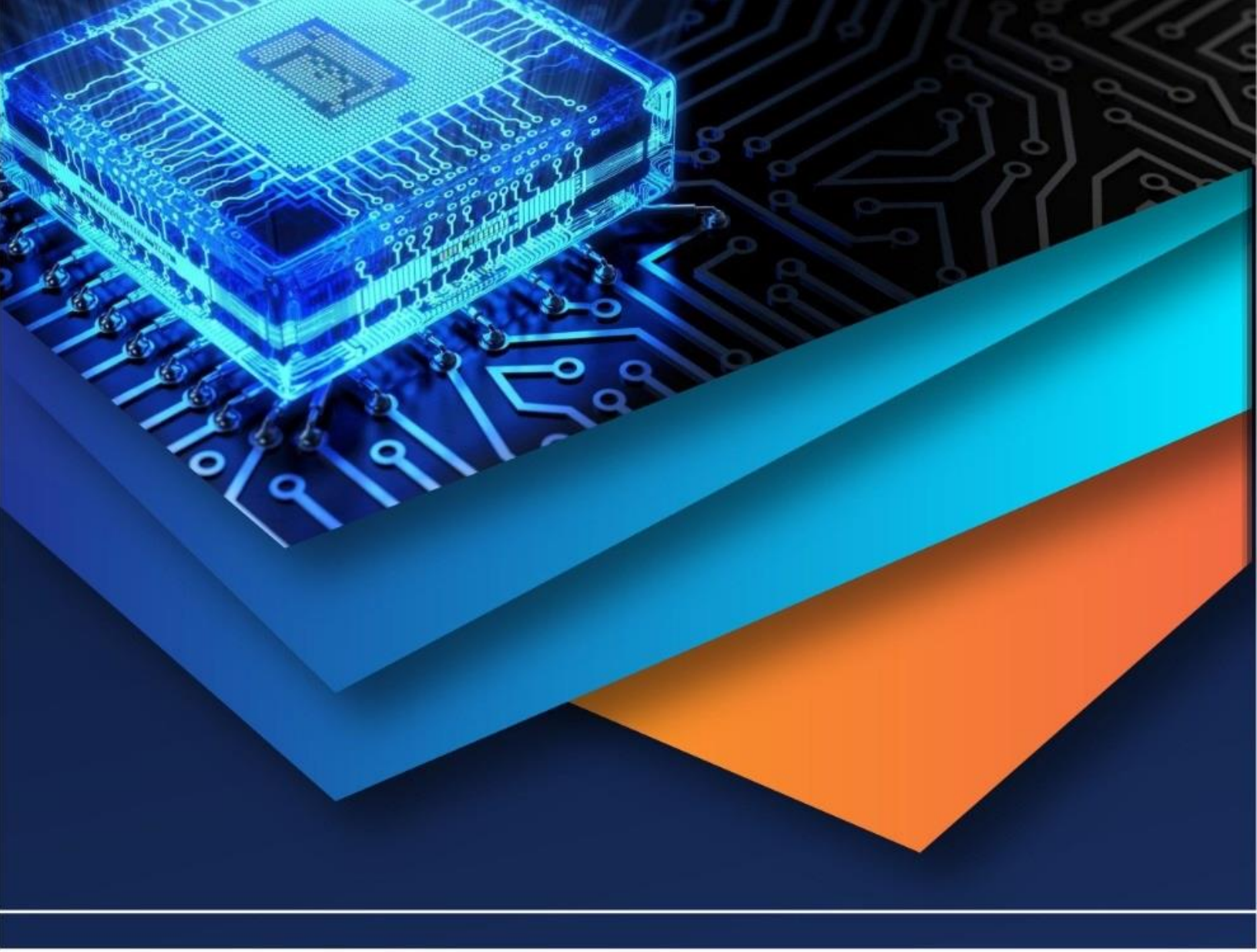
VII. CONCLUSION

The proposed system provides an efficient and effective way to manage and store medical records. The system addresses the issues faced by health care organizations in maintaining paper-based records and reduces the risk of errors and data loss. The use of technology in healthcare has become increasingly important in recent times, and this system offers an innovative solution that can be adopted by healthcare providers worldwide. The implementation of the system has demonstrated its feasibility and potential to improve healthcare services. The system has shown to be easy to use and user- friendly, reducing the learning curve for healthcare professionals. It has also reduced the time and effort required to manage medical records, freeing up valuable resources for patient care. As with any technology, there is always room for improvement. In the future, the system can be further enhanced by integrating more advanced features such as data analytics, machine learning, and artificial intelligence. These features can help in the early detection of diseases and improve the accuracy of diagnosis, leading to better patient outcomes.

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