



# **iJRASET**

International Journal For Research in  
Applied Science and Engineering Technology



---

# **INTERNATIONAL JOURNAL FOR RESEARCH**

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

---

**Volume: 8**

**Issue: IV**

**Month of publication: April 2020**

**DOI:**

**[www.ijraset.com](http://www.ijraset.com)**

**Call:  08813907089**

**E-mail ID: [ijraset@gmail.com](mailto:ijraset@gmail.com)**

# A Survey Vehicle Service Station Management System

Tisha R. Patel<sup>1</sup>, Chandni K. Mistry<sup>2</sup>, Prof. N.Y. Kansara<sup>3</sup>, Vibhuti K. Panchal<sup>4</sup>, Megha K. Prajapati<sup>5</sup>

<sup>1, 2, 3, 4, 5</sup>Department of Computer Engineering, R.N.G. Patel Institute of Technology Bardoli, India

**Abstract:** In recent time automobile industry is having high time. So servicing sector of the vehicle requires automation at service center. Our system would like to overcome the problems which are observed and most of them are manually approached. It is difficult for the service station to manage the information of client and employee manually and also many vehicle owners are not aware about their vehicle services and the maintenance time to time. To solve this problem our system called as “Vehicle service station management system” (that includes android application and web application) will provide category wise access module, advance bookings for service, logs with status of previous/current/remaining attended/missed services, bill generation, feedback module for client, tracking module of all services of vehicle, manage employee data, attendance and salary module for employee of service station, notification module for recent updates, report generation, etc.

**Keywords:** Vehicle service, Notification, Advance Booking, Feedback, Maintain logs of spare parts, online bill generation.

## I. INTRODUCTION

This project is develop for the vehicle service station and vehicle owner. It is difficult for the service station to manage the information of client and employee manually and also many vehicle owner are not aware about their vehicle services and the maintenance. . To solve this problem “Vehicle service station management system” provide login for client and owner of service center. Whenever client login in this system they can see the information regarding previously complete service, remaining services and show the primary information of vehicle. The client/customer can give feedback through application. The system will keep track of all services of vehicle. This system will manage employee information; keep track of attendance and salary of employee. There will be a message alert system to inform client/customer about their next service of vehicle. The system is also provide the report and the generate receipt related to vehicle service.

## II. LITERATURE SURVEY

For understanding the problem of existing system we had observed so many application and website related to our Topic.

- A. Online bill generation
- B. Message alert system
- C. Online service booking system
- D. Feedback
- E. Service history
- F. Employee's attendance

## III. PROPOSED SYSTEM

### A. Purpose

The purpose of this project is to provide vehicle or any other automobile servicing system more effectively than the existing system. There is some disadvantage of the existing service center management systems. These disadvantages are overcome by vehicle service center management system. And it can be made handily available to every person. Previously people could not notify the next service of vehicle and not maintain the record of previous services. Thus Vehicle service station management system is proposed to people and fulfill their requirements easily. First of all admin have to login into the website. If the password is invalid then display error otherwise display dashboard. From dashboard admin can show vehicle details, vehicle owner's details and can manage information of vehicle, vehicle owner, employees, supplier, stock, product, sells report, invoice. In this system all the invoice can be store. So admin see any invoice at anytime. This system can manage the stocks so service station owner will be aware about the remaining stock and used stock. System will also display which product is use by which employee.

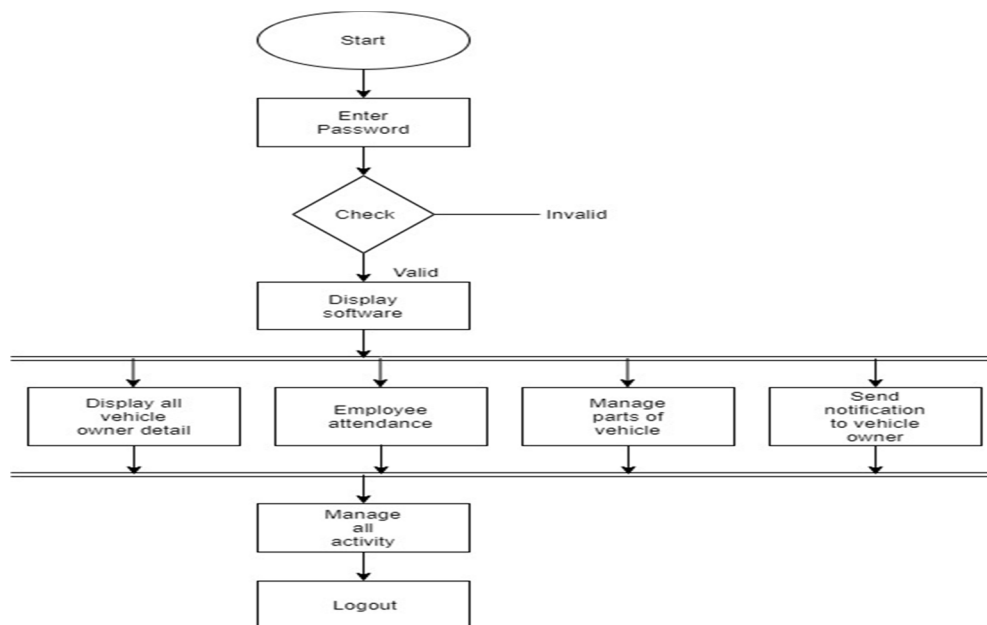


Figure I. Admin side flow diagram

In this mobile application first of all client have register in to the application. Then client can login in to the application. After the login procedure client have to add their vehicle number if any client have more than one vehicle they can register multiple vehicle number in to the system. Without vehicle number client cannot do advance booking. When a client booked a service he/she can see that their service is in process, pending or completed on service history page. Client will get notified before the date of service. When the service is completed client will get SMS in that SMS service charged will be send along with that there is a link in which the generated invoice's soft copy will be send.<sup>[3]</sup>

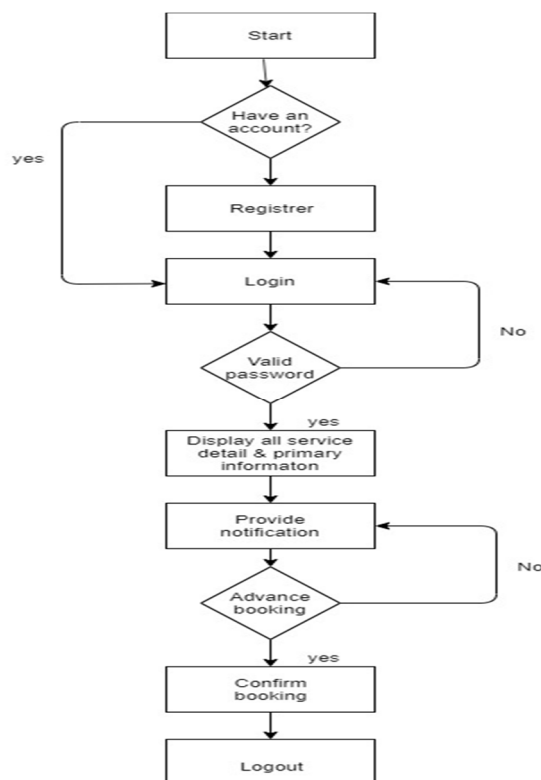


Figure II. User side flow diagram

Firstly the service station owner will login to the system. The system will keep track of all primary information about vehicles and its owner. It will manage attendance of employees.<sup>[6]</sup> The system will notify the vehicle owner about next service.<sup>[3]</sup>

Using an android application owner can book the vehicle service in advance. On that particular date the owner put the vehicle for the service. When the vehicle service is done the owner of service station will inform the vehicle owner. Now the owner will pay the bill.<sup>[4]</sup> The bill be generated online. At the last vehicle owner can give feedback through application.<sup>[5]</sup>



Figure III. System work flow diagram

#### IV. CONCLUSION

With the use of vehicle service management system vehicle owner can see the details of services like remaining/missed/completed. Vehicle owner can see the primary information of vehicle and can book service in advance.

Service station owner can manage all information of vehicle, vehicle owner and also manage details of employees as well as service station. System will notify the vehicle owner about the next service. Service station owner can manage employee's attendance and based on attendance employee's salary will be managed.

Hence by using this web application service station owner can manage all info online and no need to do paper work. Using Android application vehicle owner can booking service anytime (24x7). This system will be helpful and easy to use for service station owner and vehicle owner.

#### REFERENCES

- [1] <http://www.freepatentsonline.com/7523770.html>
- [2] [https://patentimages.storage.googleapis.com/71/d1/28/9810\\_9720446dbb/US7911334.pdf](https://patentimages.storage.googleapis.com/71/d1/28/9810_9720446dbb/US7911334.pdf)
- [3] <http://api.textlocal.in/send/>
- [4] <https://cleartax.in/s/tax-calculation-gst>
- [5] <https://stackoverflow.com/questions/33863917/android-how-to-put-5-different-smiley-in-rating-bar>
- [6] <https://patents.google.com/patent/US20030167193?q=online+attendance+management+system>





10.22214/IJRASET



45.98



IMPACT FACTOR:  
7.129



IMPACT FACTOR:  
7.429



# INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call : 08813907089  (24\*7 Support on Whatsapp)