An Android Application for Location based Car Service Recommendation

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ABSTRACT

The car service recommendation is the application project which is based on android. The purpose of this project is to make ease of the car services of the user. There are chances to occur some problems in car while traveling or in user's long drive. It may be, break down or other problems. If the problem is easy to solve, the user need not to face difficulties in repairing the car. If the problem is difficult to solve then the user must approach the nearby mechanic or car service centers. At that time they may not know the nearest car service and mechanic. It will take long time to find the mechanic or car service centers in that particular area, also time takes to repair the car. It will leads to the waste of time. To resolve the above issues we proposed an android app to recommend the car service app which is location based.

Keywords: Car services, Repairing and Android.

1. INTRODUCTION

In this two types of service centers available. First is authorized service and the other is pre-owned service. In authorized service the user can get the free service from where the user bought the car. The free service is based on the warranty and the free service count provided to them. Once the user request for the car service the user's particular car company and the branch nearby to the user location are shown in the map. The request is sent to the corresponding company admin. Then the admin assign the task to their employee who are all nearest to the user's location. The employee send the alert notification to the user about their reach. After reaching the user they check the problem. If there is any need of the parts replacement the employee send the spare parts requirement to the admin. Then the admin order the spare parts to the auto spare parts services nearest to the user's location. Then the auto spare part services deliver the required spare parts to the user's location on time. If the service count over for the particular user they cannot get the free service, it should be paid service.

In pre-owned service the mechanic shops and the car service centers loaded in the map which is location based. They can call to the any of the service center or mechanic to get car service which is paid service. Hence it is proved that this is the fruitful application for users. The scope of the project to provide the app which is useful for users to done car service in unknown place on time. It is to improve the customer services of the car service centers. It is to provide the location based easy car service application.

In the existing system, it is difficult to the user to find the mechanic shops are car service centers, if the car is break down in an unknown place. They do not have any of the nearest mechanic sheds phone number or address. They have to ask other people or have to search by themselves. Also it is time consuming. And also it will make the user irritating in an important situation. This can made any disadvantages: The user have to search the nearby car service centers themselves,

it is time consuming ,it will make the user's irritability in important situation, any of the parts replacement is not done on time. The main objective of this application is to reduce the users work in the unknown problems in the car while traveling. To provide the efficient car services in short period of time. To reduce the waste of user's time in car services in unknown place.
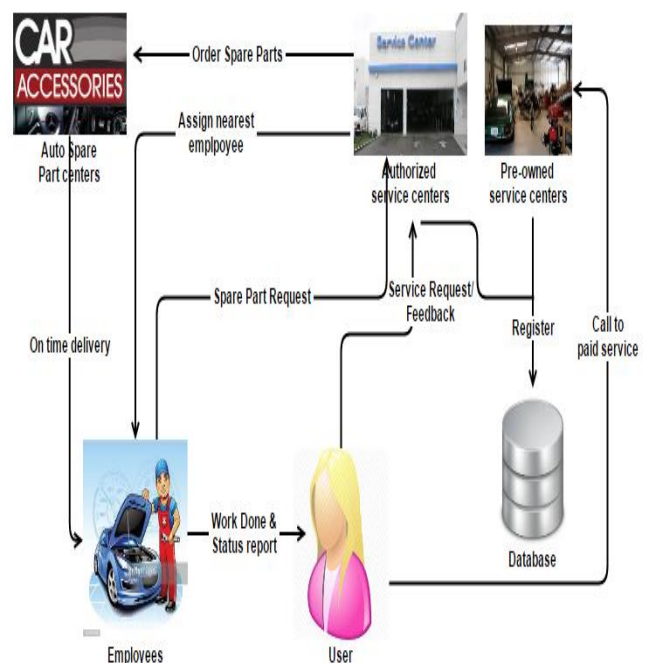

Fig. 1. Architecture of the system

2. PROPOSED SYSTEM

In the proposed system, the user can get the car service at any time at anywhere. The user can get the car service nearest to their location. All processes are done in the mobile phone itself. The parts replacement also done without any delay. The efficient service is provided to the user. It will make an advantage: The user need not search any car service centers,

the application shows all the details of the service centers within nearest location ,parts replacement also done on time, reduces the user's time in car service.

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The free service is based on the warranty and the free service count provided to them. Once the user request for the car service the user's particular car company and the branch nearby to the user location are shown in the map. The request is sent to the corresponding company admin. Then the admin assign the task to their employee who are all nearest to the user's location. If there is any need of the parts replacement the employee send the spare parts requirement to the admin. Then the admin order the spare parts to the auto spare parts services nearest to the user's location. Then the auto spare part services deliver the required spare parts to the user's location on time. If the service count over for the particular user they cannot get the free service, it should be paid service. In pre-owned service the mechanic shops and the car service centers loaded in the map which is location based. They can call to the any of the service center or mechanics to get car service which is paid service. Hence it is proved that this is the fruitful application for users.

3. MODULE DESCRIPTION:
Add centers
In the first module the centers are added into the database. The authorized service centers are added for the car service with the company itself where the car bought by the user. Then the pre-owned service centers are added where the user can get the service from the nearest mechanic sheds which is paid service. The auto spare part centers are added to get the spare parts in the time of car service.

Location based service request
In this module, the user request for the car service which is location based. In this application the location based car service is done to the user. The user can request the service both in the authorized and the pre-owned service centers. In authorized service the user can get service from the center and the branches of that particular service center.

Service count verification
In this module of authorized service center, there will be particular limit for the free service for each user. The service provided to each user is calculated based on the service provided to that particular user. Until the free service count completed, they can get the free car service. If the service provided to the particular user exceeds the free service count then the user cannot get the free service. They should get the paid service.

Employee location tracking
The authorized service center can track their employee location detail continuously. So that they can assign the employees based on the user location. Using the global positioning system the location of the employees tracked

continuously. The employees current working location can easily tracked using this app. So that the manager can easily assign the employees for the user's nearest location.

Assign employees
In this module, the main branch admin assign the employees who are all nearest to the location of the users. So that the employees can provide fast and efficient service to the users. After getting the assigned job the employees send the notification or alert to the user about the car service request acknowledgment from the service center side about their arrival and time.

Parts replacement request
The employee go to the user's location after assigning the job. If there is major problem such as parts replacement is need, then they should go to the nearest auto service center and have to buy the required spare parts themselves which is time consuming also lack of customer service. To reduce the employees work in ordering spare parts we provide easy way through this application. In this app the employee send the spare part request to the corresponding main service center.

Order Spare parts & Customer feedback
The spare part request is viewed on the main branch. The admin order the employee's required spare parts based on the user location. The spare parts are ordered nearest to the user's location. The auto spare part center deliver the required spare parts to the employees on time. Through this the employees time is saved also customer service is improved. Then the customer feedback is collected about that service.
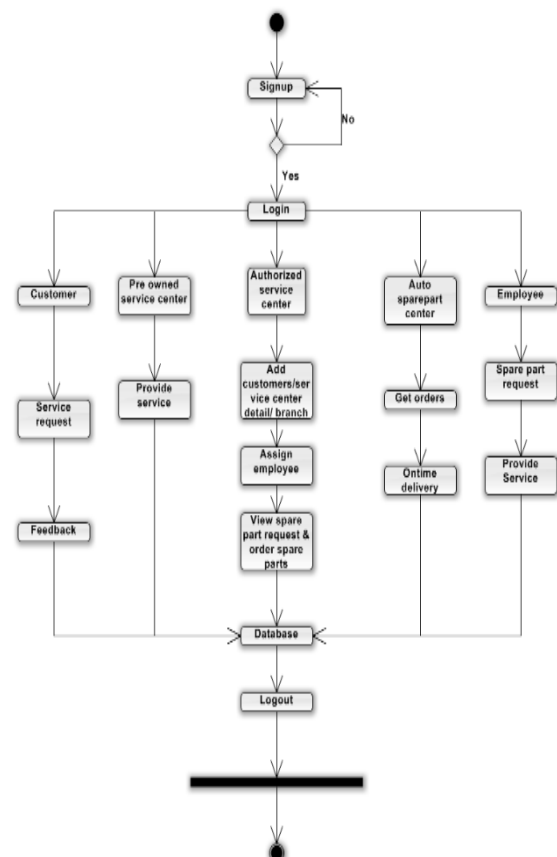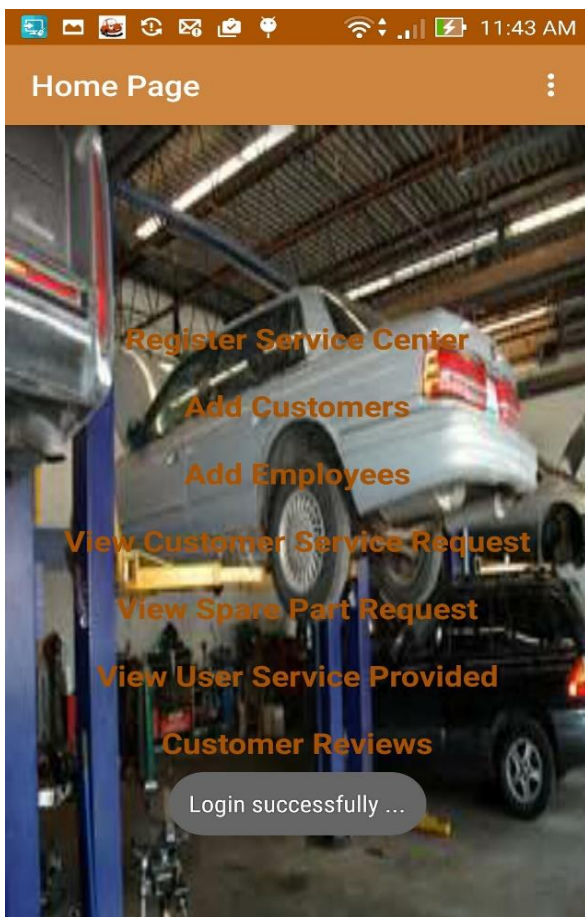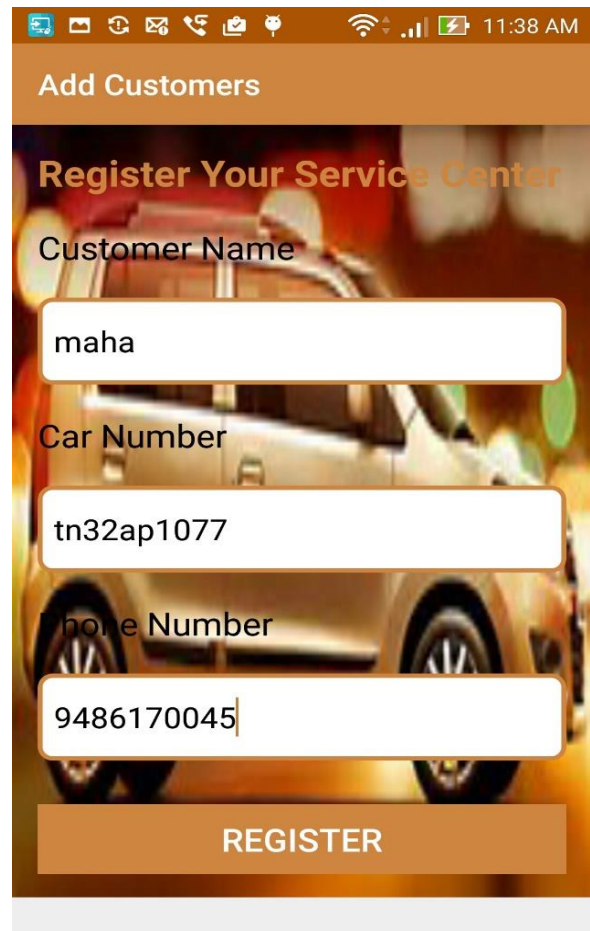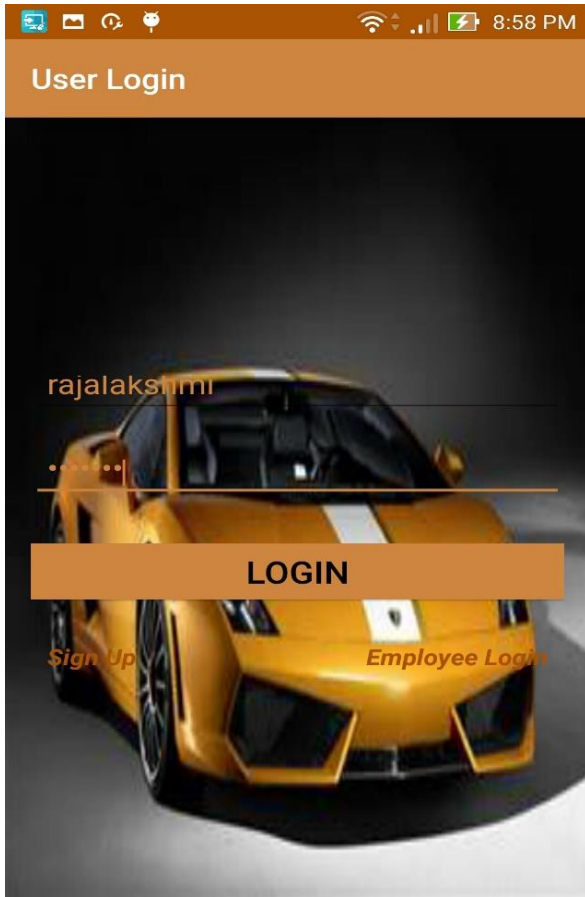

Fig. 2. Flow chart of the entire process.

OUTPUT

4. CONCLUSION

By this proposed system the user can be provided an easy way to find the nearest mechanic shop or car service in the strange places. The android application can therefore save our time in difficult situations. In future, this system can be implement in hardware and we can even have the payment through online.

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