



On Road Vehicle Assistance

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ABSTRACT

On Road Vehicle Assistance (ORVA) is going to be a good solution for the people who seek help in the remote locations with mechanical issues of their vehicle. Users of the On-Road Vehicle Assistance will be the registered public and they will be getting connected with the mechanic through the trustworthy On Road Vehicle Assistance (ORVA) system. Because only the legally licensed and approved mechanics are enlisted in the On-Road Vehicle Assistance (ORVA) system. Also, they are under monitoring by the ORVA system for not charging any extra service fee from the users as every user is updating their feedback about the availed service through ORVA system.

Keyword - On Road Vehicle Assistance

INTRODUCTION

The Project entitled “**On Road Vehicle Assistance**” The main aim of this project is to develop an application for efficient and proper running of motor vehicle, it is necessary that motor vehicle should be properly maintained and repaired. Satisfactory repair works reasonably charges, qualified and experienced technical staff providing prompt attention and good workmanship help a garage to get reputed and popularize in the market. The project is based on vehicle mechanics and workshop services. Workshop system solves the services, problems, breakdown problems of a vehicle. If any issue at the time of travelling user can get the details of nearest availabilities like mechanic, puncher etc. When our vehicle gets damaged, or get an issue we may little tensed. But our system helps to recover our vehicle as possible. On Road Support is going to be a good solution for the people who seek help in the remote locations with issues of their vehicle. Users of the On-Road Vehicle Assistance will be the registered public. They will be getting connected with the mechanics, car wash, pollution checking Centre, Crain service, Petrol pumps etc. anything that required for a vehicle through the trustworthy On-Road Support system. The existing system is following a traditional setup for example direct approach to workshop and mobile applications that provides mechanics only.

OBJECTIVE

The main objective of the project is to make an effective system. The main objectives are:

- ORVA reduce user's effort. User can easily find the mechanics and other services from various areas.
- It reduces time and cost.
- ORVA provides, secure registration of users and service providers.
- Easy access to the data.
- This system is more user-friendly, reliable and flexible.
- To provide proper maintenance and other services for Vehicles.
- To ensure the mechanic is experienced and have good customer-service.
- To ensure the safety of users through secure login.
- It provides service availability in remote locations.
- Helps the growth of tourism

Main module of the system**Worker Module:**

This module contain woker details like recent works and payment mehods.

User Module:

This module contain details about user they can view workers, facilities, request for workers and facilities and add complaints.

Admin Module:

This module canAdd workers, View workers, View Complaints, Users, View Feedbacks, Add public facility and View public facility

PRE-REQUISITES**A.Python**

Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects. Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly, procedural), object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library

B.Eclipse

Eclipse is an integrated development environment (IDE) used in computer programming. It contains a base workspace and an extensible plug-in system for customizing the environment. Eclipse is written mostly in Java and its primary use is for developing Java applications, but it may also be used to develop applications in other programming languages via plug-ins Eclipse software development kit (SDK) is free and open-source software, released under the terms of the Eclipse Public License, although it is incompatible with the GNU General Public License. It was one of the first IDEs to run under GNU Classpath and it runs without problems under IcedTea.

C.MySql

MySQL is an open source, SQL Relational Database Management System (RDBMS) that is free for many uses (more detail on that later). Early in its history, MySQL occasionally faced opposition due to its lack of support for some core SQL constructs such as sub selects and foreign keys. Ultimately, however, MySQL found a broad, enthusiastic user base for its liberal licensing terms, perky performance, and ease of use. Its acceptance was aided in part by the wide variety of other technologies such as PHP, Java, Perl, Python, and the like that have encouraged its use through stable, well-documented modules and extensions. MySQL has not failed to reward the loyalty of these users with the addition of both sub selects and foreign keys as of the 4.1 series. Like many competing products, both free and commercial, MySQL isn't a database until you give it some structure and form.

SCOPE

On Road Vehicle Assistance (ORVA) is going to be a good solution for the people who seek help in the remote locations with mechanical issues of their vehicle. Users of the On-Road Vehicle Assistance will be the registered public and they will be getting connected with the mechanic through the trustworthy On Road Vehicle Assistance (ORVA) system. Because only the legally licensed and approved mechanics are enlisted in the On-Road Vehicle Assistance (ORVA) system. Also, they are under monitoring by the ORVA system for not charging any extra service fee from the users as every user is updating their feedback about the availed service through ORVA system.

LITERATURE REVIEW

Literature review is a searching similar system and identify the difference between researcher project with existing systems. This is help to get a deep idea of the project. It provides the combination of theoretical, methodological and current knowledge of findings according to subject. There are need to gather the information according to the project. This chapter describe the how difference the "ORVA" with other similar system.

'Emergency breakdown Assistance Kit' is an automobile emergency signaling kit, that shown "HELP" in front transparent panel. Below the HELP sign

indicate the specific nature of the disable. In On-road vehicle Breakdown Assistance didn't display any special sign in front panel. There are need mechanic for identify the nature of the disable. (Sophie, 2001)

'Car Talk 2000' is focus on new driver assistance system based on inter-vehicle communication. Radio network use as a Communication. That help to communicate with other vehicle. "HelpMe" didn't use radio network as a communication. Because the system using android operating system and user can locate mechanic by using GPS. (Reichardt, 2002)

'Mobile Chat system' for Real Time Polling, Rating can rate the chat. While the chatting user can give star rate to the reply. On-Road Vehicle Breakdown Assistance user can reply and rate the chat using stars. When the new user signs up with the system, new user can see top rated mechanic and can see the chat. (Florian, 2017)

'On-Vehicle Breakdown-Warning Report System' installs an electronic control panel and when the occurring breakdown detected and shown the signal on control panel. That may be help to detect the breakdown type before the major breakdown the vehicle. On-Road Vehicle Breakdown Assistance (HelpMe) couldn't detect any special breakdowns and didn't show any specific signal about breakdown. (Masahiko, 2000)

'Geo Location Tracking System and Method' is geo tracking routing from point to point in geographical location. In "HelpMe" there is a location tracking based on user location. User can search the spare parts shops based on their location. (Morales, 2016)

PROPOSED SYSTEM

This application is going to be a good solution for the people who seek help in the remote locations with issues of their vehicle. Users of the On-Road Vehicle Assistance will be the registered public. They will be getting connected with the mechanics, car wash, pollution checking Centre, Crain service, Petrol pumps etc. anything that required for a vehicle through the trustworthy On-Road Support system. The existing system is following a traditional setup for e.g.: Direct approach to workshop and mobile applications that provides mechanics only. In ORVA we reduce your effort. You can easily find the mechanics and other services from various areas. It reduces your time and cost. ORVA provides, secure registration of users and service providers, Easy access to the data, The new system is more user-friendly, reliable and flexible.

ADVANTAGES OF PROPOSED SYSTEM

- The proposed system provide security to user's data
- Existing system does not have a community platform
- System is user friendly ,more efficient and flexible.

NEED AND SIGNIFICANCE

- Admin handles and can access the user details. Admin has the access to allow/block and view the mechanics. This line mechanic locator reduces your work and can easily find the mechanics from various areas. Reduces your time and cost.
- Secure registration of user's and mechanics
- Easy access the data
- The new system is more user-friendly, reliable and flexible
- Reduced manual work
- Search mechanics based on the different locations

RESULT

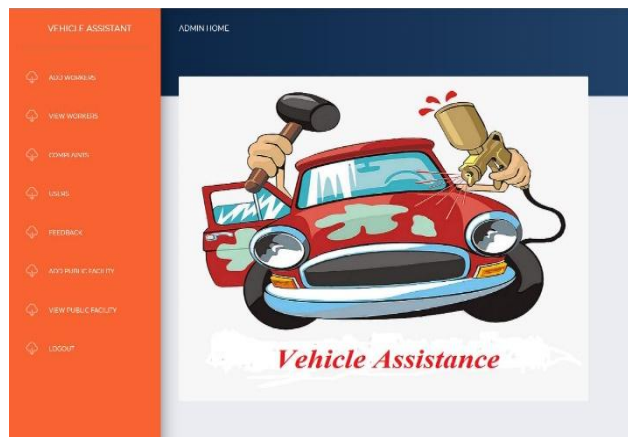


Fig A.1: Admin Home page

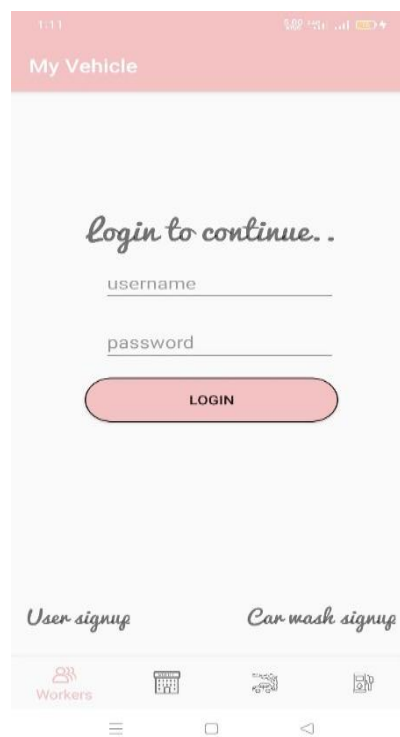


Fig A.2: Android home page

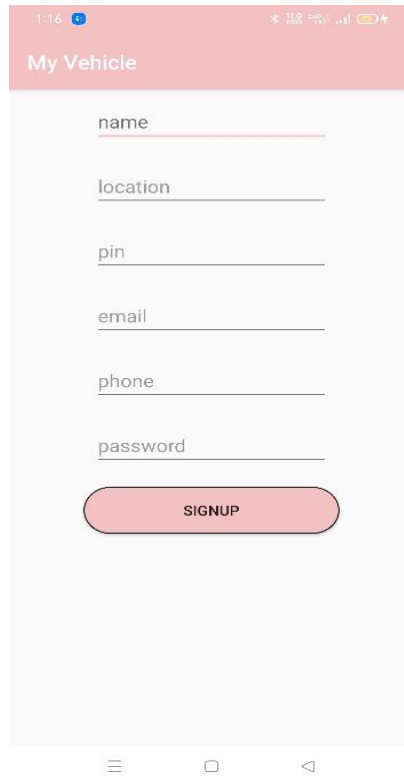


Fig A.3 carwash signin page

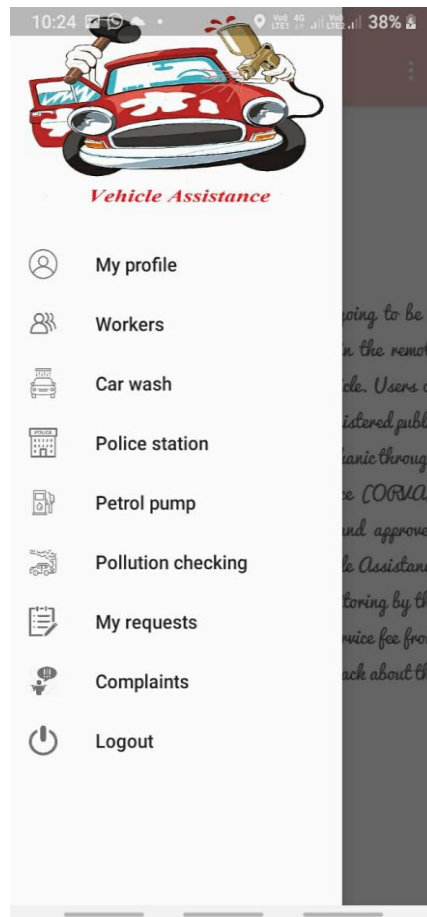


Fig A.4 User Home

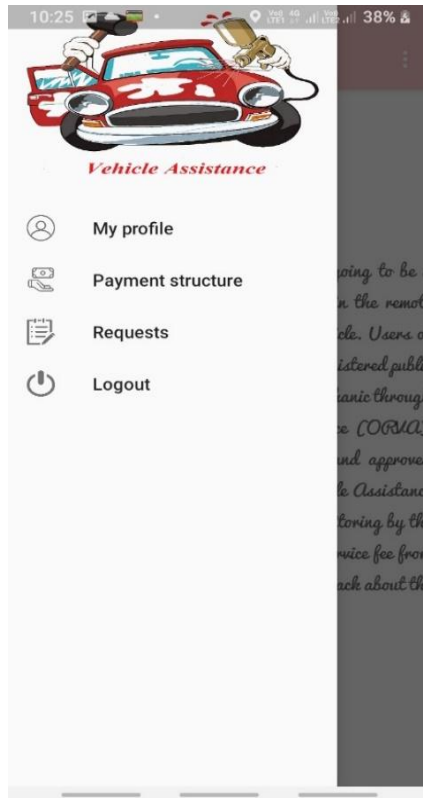


Fig A.5 Worker home page

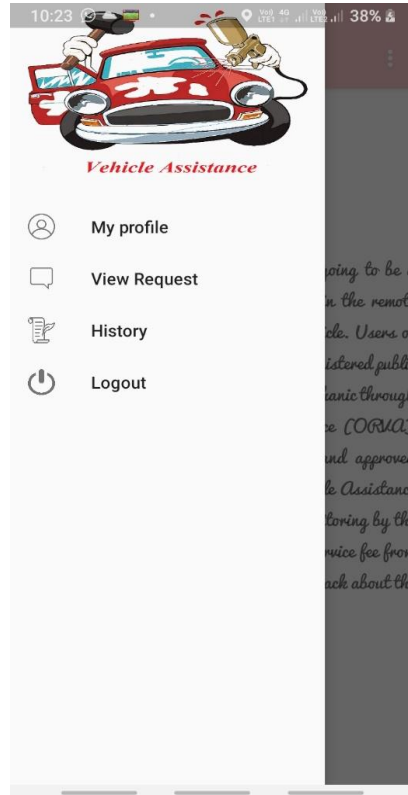


Fig A.6 Car Wash Home

CONCLUSION

The admin, company or the candidate will perform all the task very easily and more convenience way. The application offers reliability, security, time savings and easy control. . It can be used as a base for creating and enhancing applications for viewing jobs, tracking applications.. The application will greatly simplify and speed up the result preparation and management process. The proposed system will decies the work time of the company. This will brings more perfection to the work.

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