

Vehicle Assistance System

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Abstract -During the journey sometimes vehicles get a breakdown or there may be an accident on the road or highways. In that Scenario one halt vehicle become the root cause of the whole Traffic Jam. The Real reason behind this Jam is difficulties to locate the vehicle repair Service provider or service stations for repairing the halted vehicle.

These drivers search the nearest place to locate the vehicle service provider and this task is very much time consuming and other vehicles on the road which stuck in a traffic jam may suffer.

This problem is the guiding motivation for the development of this project with the help of vehicle assistance system application user can search for the nearest vehicle repair service provider through our special search option and get the all the necessary details such as phone number, location of the service station easily and quickly.

Key Words: Online Vehicle Assistance System, Vehicle Breakdown, Vehicle Repair Service Providers.

1. INTRODUCTION

The project is related to the Online Vehicle Assistance on Road, We will develop this project as the prototype but after some changes and improving the configuration of the server, we can use this for State or for Whole Country. There are various methodologies available for Project Implementation, but we can choose the methodology according to our project and experience. We are new and can't solve the problem in one shot.

Therefore we will use the RAD (Rapid Application Development) Model to implement the project, in this method we can check and verify each step multiple times and also can get back to review the older stage of the project [1].

This system is proposed as a web application due to the shortage of time. This system uses the concept of longitude and latitude of the Google map. The system will use the driver's current longitude and latitude and compare it with the database of pre-saved details of the various VRSP available and display the list of all the nearby VRSP. Various VRSP can also locate the user on the Google map [2] with the help of longitude and latitude [3].

2. SYSTEM ANALYSIS

2.1 Existing System

The existing system is highly inefficient and time-consuming. In this system, the vehicle owner will look for the nearby service provider for repairing the vehicle and the whole system is based on hit and trial methodology.

2.1.1 Disadvantage of Existing System

- Time consuming
- Difficulties in finding VRSP.
- May caused the unexpected traffic Jam

2.2 Proposed System

The proposed system is an application in which users can search for the nearest vehicle repair service provider through our special search option and get all the necessary details such as phone number, location of the service station easily, and quickly.

2.2.1 Advantage of Proposed System

- Time saving
- Ease in finding VRSP

2.3 System Requirement

2.3.1 Hardware Requirement

- RAM- 2 GB or more.
- Hard disk- 20 GB and more Time-saving
- Processor-Pentium 2.4 GHz

2.3.2 Software Requirement

- Operating system-windows/XP
- Front End- HTML,CSS
- Scripts- JavaScript
- Database -MySQL

2.4 Module Description

The proposed system is an application in which users can search for the nearest vehicle repair service provider through our special search option and get all the necessary details

such as phone number, location of the service station easily, and quickly.

2.4.1 User Registration

This module is the first module in the dashboard from where users can register and this is the one time process where users various credentials are saved such as user name, mobile no, date of birth, place, state, and user email and password.

2.4.2 Service Provider Registration

In this module service provider can register and this is the one time process where user various credentials are saved such as the name of a service center, mobile no, place, state, and user email, password and along with that, the VRPS has to provide its longitude and latitude with the help of our built-in getting location feature.

2.4.3 Search

This module facilitates the user to search the nearby VRSP available and all there details will be shown on the user dashboard.

3. DIAGRAM

3.1 General Architecture of Software

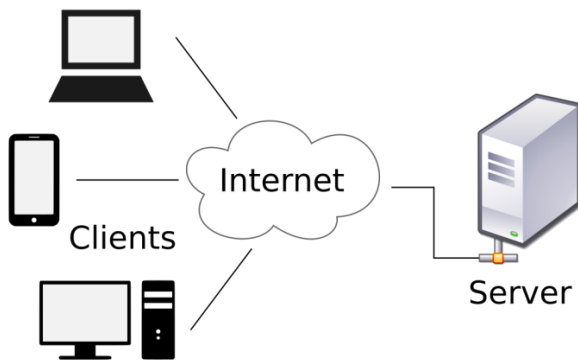


Fig -3.1: General Architecture of Software

3.2 User Requirement Document (URD)

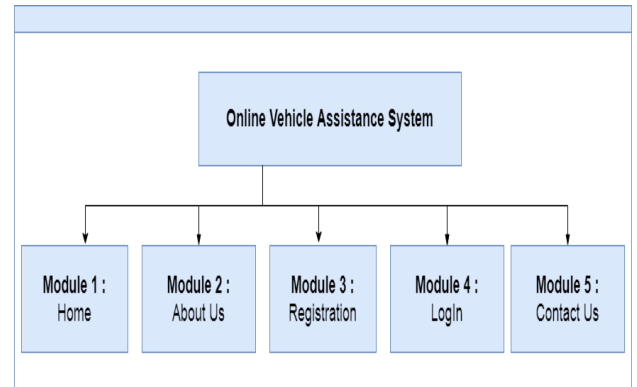


Fig -3.2: Client-Server Architecture of Software

3.3 Activity Diagram

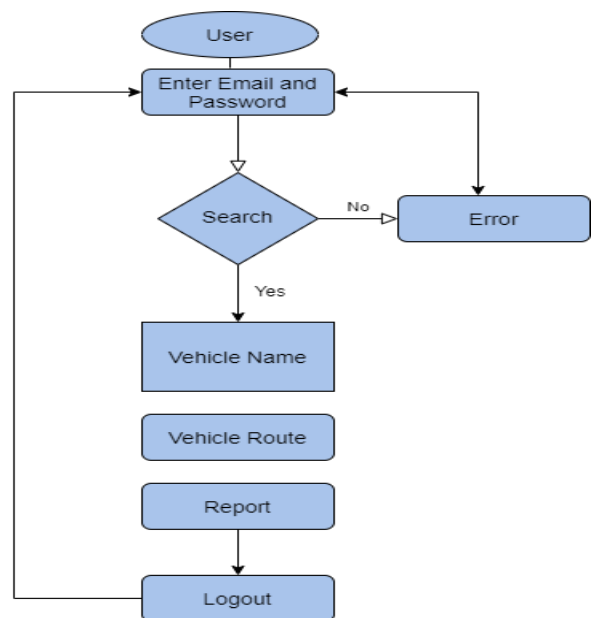


Fig -3.3: Activity Diagram

4. SCREENSHOTS

4.1 About US

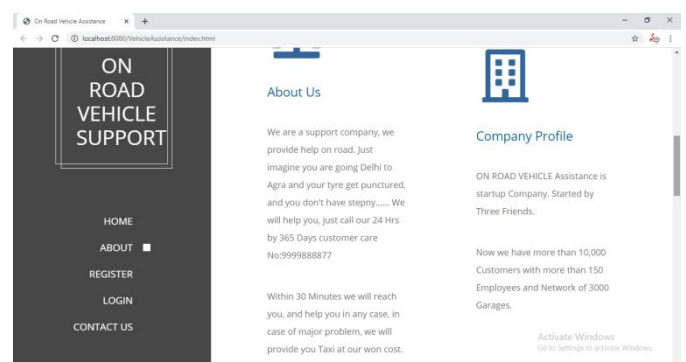


Fig -4.1: Search Page

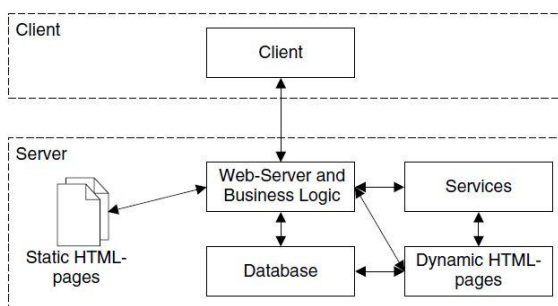


Fig -3.1.1: Client-Server Architecture of Software

4.2 Login

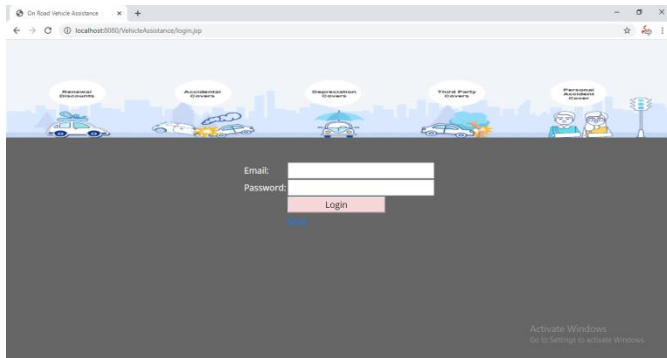


Fig -4.2: Login Page

4.3 Home Page

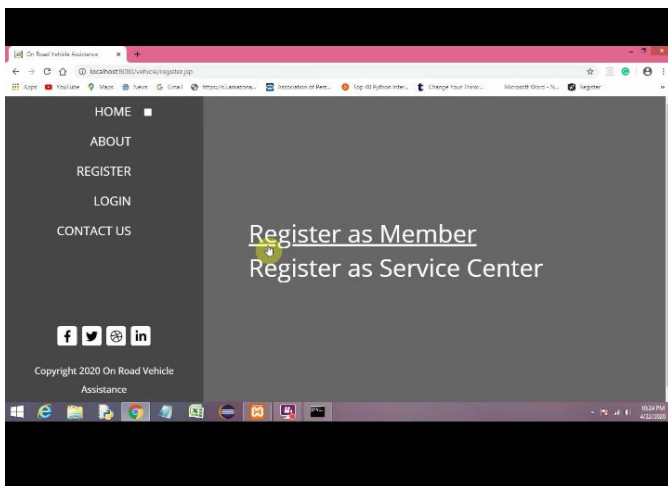


Fig -4.3: Home Page

4.4 Contact US

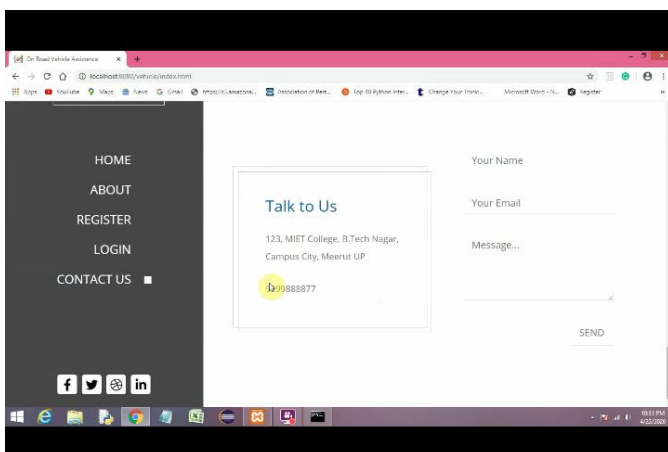


Fig -4.4: Contact Us Page

4.5 Search Page

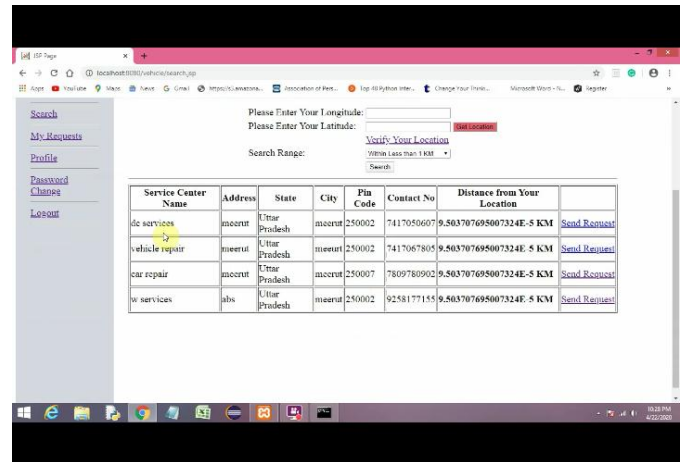


Fig -4.5: Search Page

5. CONCLUSION

This web application can be used by any age group users with ease of access. It has the main feature of locating VRPS with the help of its built-in special features of detecting the location of the user with the help of longitude and latitude concept.

6. FUTURE SCOPE

Vehicle assistance Systems can be provided with various features like On-Road MOTEL locator and various other features such as Hospital locators. The current system is designed and developed as a web application which can be done in other technology like Android which will make the reach to the users. The Future of the project depends on whether the author has enough spare time over the next few months to continue with the development.

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