ON ROAD VEHICLE BREAKDOWN SERVICES

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ABSTRACT: On Road Vehicle Breakdown Application (ORVBA) 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 Breakdown Application will be the registered public and they will be getting connected with the particular mechanic through the trustworthy application system. Because only the legally licensed and approved mechanics are enlisted in the On Road Vehicle Breakdown Application (ORVBA) system. In an existing system there are users who have their own mechanic database which is very minimal. And also they have no idea if their vehicles are broke down or had any mechanical issue in remote locations or any long distant locations from their known mechanic shops. In an proposed Here the users of On Road Vehicle Breakdown Application (ORVBA) system can search for list of mechanic at any location or the nearby locations which will help them in an unexpected situations raised by the mechanical issues of their vehicles.

I. INTRODUCTION

A lot of people a difficulties getting help when their breaks down on the road. Many of them do not have any car repair service providers contact number and could not get help as the car repair service center might be away from their location This project to help those who are in need when their car break down along the roads.

II. EXISTING SYSTEM

In existing system, they can use getting current location alone for finding the location. If we want to identify the nearby location means it needs some other application which contains some drawbacks.That is we should give the location and it will search the nearby location for what we given in searching.

DISADVANTAGE

- ➢ It is not suitable application for emergency needs.
- ➢ It is not feasible. Because if the user in unknown location first they find the location using one app and searching nearby location another app.

III. PROPOSED SYSTEM

Our proposed emergency breakdowns service which provides the user friendly environment. It is easiest way to identity the location as well as nearby needed locations our application provides nearby location needed locations our application provides nearby location information such as petrol bunk.

ADVANTAGES

 ➢ It is one of the best applications used while emergency.
 ➢ Easy to use.
 ➢ Provides both locations nearby needs.

IV. SYSTEM ARCHITECTURE
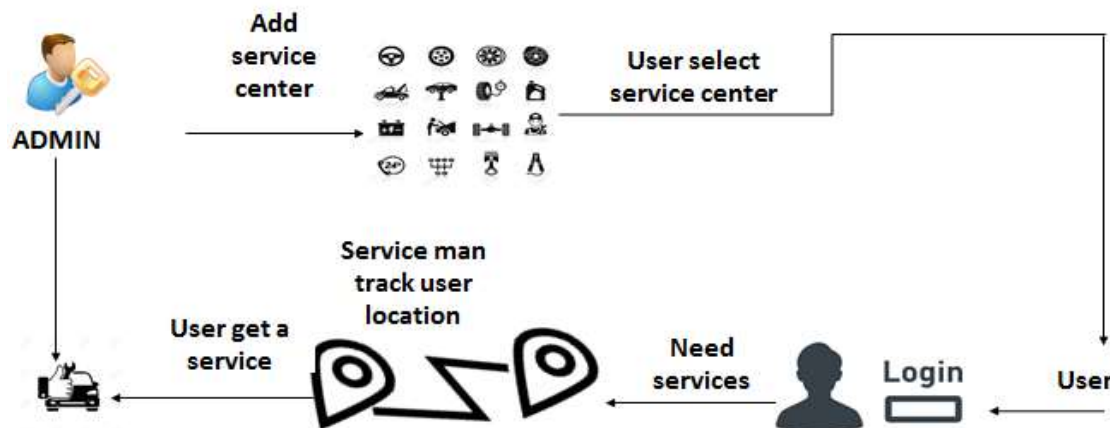
Structure, behavior, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system. System architecture can comprise system components, the externally visible properties of those components, the relationships (e.g. the behavior) between them. It can provide a plan from which products can be procured, and systems developed, that will work together to implement the overall system. There have been efforts to formalize languages to describe system architecture; collectively these are called architecture description languages (ADLs).

Various organizations define systems architecture in different ways, including:

 ➢ An allocated arrangement of physical elements which provides the design solution for a consumer product or life-cycle process intended to satisfy the requirements of the functional architecture and the requirements baseline.
 ➢ Architecture comprises the most important, pervasive, top-level, strategic inventions, decisions, and their associated rationales about the overall structure (i.e., essential elements and their relationships) and associated characteristics and behavior.
 ➢ If documented, it may include information such as a detailed inventory of current hardware, software and networking capabilities; a description of long-range plans and priorities for future purchases, and a plan for upgrading and/or replacing dated equipment and software.

An architecture diagram is a graphical representation of a set of concepts that are part of architecture, including their principles, elements and components. Architecture diagram can help system designers and developers visualize the high-level, overall structure of their system or application, in order to ensure the system meets their users' needs. Using architecture diagram, you can also describe patterns that are used throughout the design. It's somewhat like a blueprint that you use as a guide, so that you and your colleagues can discuss, improve and follow.
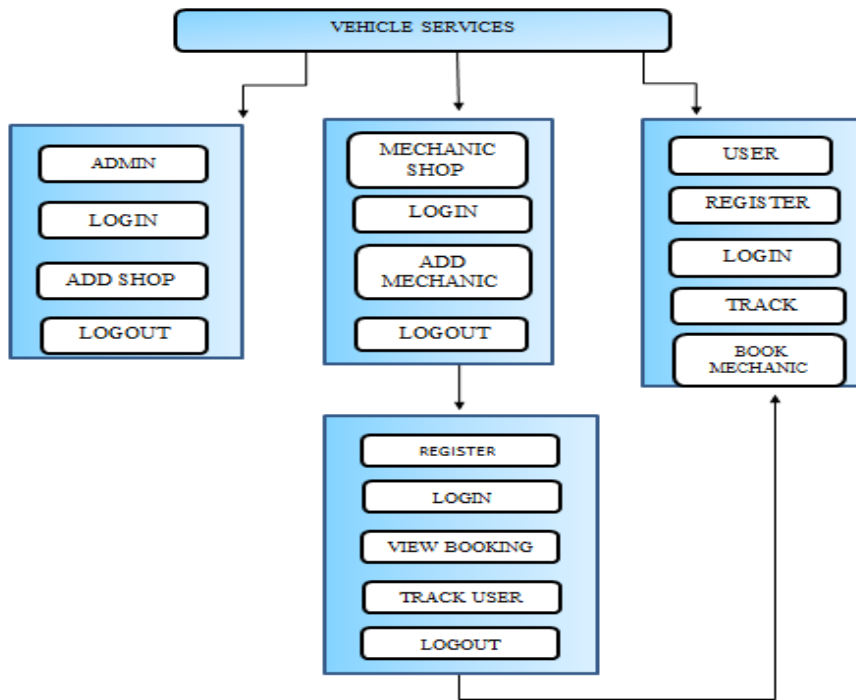
V. MODULE DESCRIPTION

MODULES

- ➢ ADMIN
- ➢ SERVICE CENTER
- ➢ SERVICE MAN
- ➢ USER

ADMIN

- ➢ LOGIN

In this section admin can login to view the updates and information about the system.

- ➢ ADD SERVICE

Admin can add the service man and service types charges for the services

- ➢ VIEW USER

In this module admin view all about the user details

SERVICE CENTER

- ➢ REGISTER

If some interested service center applied in this website for earning process. A service center can add the service man.

- ➢ SERVICE MAN

In this module, service man will be provided with a secure registration and login.

An authenticated account is provided so that the service man and service center can easily access their

account.

This helps the user to maintain their patient information

SERVICE MAN

➤ REGISTER& LOGIN

In this module describe as a service man process, a service man register in our personal details and login with our registered user name and password.

➤ SEND REQUEST

After the service man completing a login process they send a request for a service center, a service center accept the service man

USER

➤ User will be provided with a secure registration and login

➤ User can view the service center and like to want vehicle service choose the service center and choose the service type.

➤ This help the user to want to emergency vehicle services

VI. CONCLUSION

Thus our emergency breaks down service give better location result. Our application easily identifies the nearby location which is very useful to the user who uses it in emergency needs. The application provides navigation to the nearest emergency service as selected by the user. It also provides contact information of these services. This approach makes the user experience very easy and performs better than the existing system in crucial times like this. Our application shall make all possible efforts to locate and direct the nearest service provider to user's location. It help us the user for mechanical breakdown towing, fuel delivery, flare tire change and vehicle collision. Service details can be accessed from the application, which is stored in the server as part of the broader roadside assistance service.

VII. REFERENCES

[1] Shuiping Wei, Bangyan Ye, Zhiguang Fu, (2007) "Research on GPS Positioning Information Transfer Based on Wireless Network, 28(6): 589-592

[2]Mark L.Murphy, (2008) "The Busy Coder's Guide to Android Development," United States of America, Commons Ware, and LLC.

[3] M.Murphy,(2010) Beginning Android 2, Apress.

[4] R.Meier,(2010) Professional Android 2 Application Development, Wiley

[5]Burnette,(2009) Hello Android, the Pragmatic Programmers.

[6] V. Milanés, J. Pérez, E. Onieva, C. González, and T. de Pedro, (2010) "Lateral power controller for unmanned vehicles," *Elect. Rev.,* vol. 86, pp. 207-211.

[7] J.Pérez,V.Milanés, and E.Onieva, 2011 "Cascade Architecture for Lateral Control in Autonomous Vehicles," *IEEE Tr. on ITS,* vol. 12, pp. 73-82.

[8] M. H. Lee, K. Lee, S, H. G. Park, Y. C. Cha, J. D. Kim, B. Kim*, et al.*, 2012 "Lateral Controller Design for an Unmanned Vehicle via Kalman Filtering," *International Journal of Automotive Technology,* vol. 13, pp. 801-807.

[9] M. Elbanhawi, M. Simic, and R. N. Jazar, 2013 "Autonomous Robots Path Planning: An Adaptive Roadmap Approach," *Applied Mechanics and Materials.,* vol. 373, pp. 246-254.

[10] M. Elbanhawi, M. Simic, and R. N. Jazar, 2014 "Continuous-Curvature Bounded Path Planning Using Parametric Splines," *Frontiers in Artificial Intelligence and Applications,* vol. 262, pp. 513-522.

[11] H. Marzbani, M. Simic, M. Fard, and R. N. Jazar, 2015 "Better Road Design for Autonomous Vehicles Using Clothoids," *Intelligent Interactive Multimedia Systems and Services,* vol. 40, pp. 265-278.

[12] V. D.Q., M. H., F. M., and R. N. Jazar, 2016 "A Novel Kinematic Model of a Steerable Tire for Examining Kingpin Moment during Low- Speed-Large-Steering-Angle Cornering," *SAE International Journal of Passenger Cars-Mechanical Systems* vol. 10.

VIII. WEB REFERENCES

1. Android API: http://developer.android.com/reference/packages.html
2. Android Developer Guide: http://developer.android.com/guide/index.html