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Vehicle Repair and Puncture Service App

Ankit Choudhari, Balu Gobade, Akshay Khatale, Anand Narnaware, Prof. S.B. Jadhav

Student, Department IT, Sinhgad Institute of Technology, Savitribai Phule Pune University, Pune, India

Professor, Department IT, Sinhgad Institute of Technology, Savitribai Phule Pune University, Pune, India

ABSTRACT: Today large number of population uses android devices and there are large number of applications available for these devices. There are various improvement in the maps technology which allows us to find out the various places on the map, Google Map provides locations of various places like hotels, hospitals, schools, etc. but Google Maps does not provide us the vehicle repair and puncture repair shops which is problem faced by many people's while driving vehicle in unknown areas. In this paper we present a new application which runs on Android Operating System which enables users to find out the puncture repair shops and vehicle repair shops in your location. So this application solves many problems encounters during traveling in the unknown location. In this application we are using the Global Positioning System for getting the current location of the device, Google Maps API to get the maps, Google Places API to get the location coordinates of places and Real time database to store the information of the puncture shops and their location coordinates.

KEYWORDS: Google Maps, Android OS, Google Places API, Real-time Database (Cloud).

I. INTRODUCTION

More than two third of automotive customers indicate that Service Convenience is a determining in selecting a brand or purchasing from a Specific dealership .Consequently, Customer Service and service management is of vital relevance to ensure ongoing Customer loyalty and retention and ultimately, dealer Profitability. Dealer Business Management enables efficient Service order Processing and billing designed for any given number of orders per day .it includes Service requests and Scheduling ,Optimization of technicians, tools , and parts as well as their deployment and scheduling .User friendly interfaces provides ease of use and the integration technology ensure a seamless and smooth business process into OEM channel System, including ,job and Package Catalogs, Vehicle history files ,Warranty Systems, etc. Service monitoring and analysis increases the Visibility in Overall fixed Operations and helps increases service Capacity utilization, efficiency and decreased operating cost. Recreation Vehicle service technician inspect, test, service, and replace every system installed in a recreation Vehicle with the exception of the dry. Both intervals are equally important for properly marinating your Vehicle Remember all Toyota dealerships offer a broad range of Parts and Service.

The Driver and Vehicle Licensing Agency, the Driving Standards Agency and the Vehicle and Operator Service Agency Provide Services for 42 million drivers. The Vehicle and Operator Services Agency (VOSA) Provides a range of licensing, testing and enforcement services with the aim of improving the roadworthiness standards of Vehicles ensuring the Compliance of operators and drivers, and Supporting the independent Traffic Commissioner. A repair kit or service kit is a set of items used to repair a device, commonly comprising both tools and spare parts. Many kits are designed for vehicles, such as cars, boats, airplanes, motorbikes, and bicycles, and may be kept with the vehicle in order to make on-the-spot repairs. Some are considered essential safety equipment, and may be included survival kits. In the military, personnel crossing large water bodies in aircraft may be equipped with a raft and raft repair kit. Other kits, such as those for watch repair or specific engine components, are used by professionals. Depending on the type, a repair kits may be included when buying a product, or may be purchased separately.

There are various improvement in the maps technology which allows us to find out the various places on the map, Google Map provides locations of various places like hotels, hospitals, schools, etc. but Google Maps does not provide us the vehicle repair and puncture repair shops which is problem faced by many people's while driving vehicle in unknown areas. In this paper we present a new application which runs on Android Operating System which enables users to find out the puncture repair shops and vehicle repair shops in your location. So this application solves many

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problems encounters during traveling in the unknown location. In this application we are using the Global Positioning System for getting the current location of the device, Google Maps API to get the maps, Google Places API to get the location coordinates of places and Real time database to store the information of the puncture shops and their location coordinates.

Objective and Goal:
Enables users to find out the puncture repair shops and vehicle repair shops in your location. So this application solves many problems encounters during traveling in the unknown location.

II. LITERATURE SURVEY

Sunita S Dambhare, S. J. Karale
"Smart map for **smart city"**
The amount of search methods and data sources people need to consult keep growing and which creates the overhead on people. It can be implemented in Dbpedia semantic web.

PradnyaBattin, S.D. Markande
"Location based reminder Android application using Google Maps API."
Many times it is not confirmed that we will be present at the specific location for the work for which we have set the reminder. It does not provide information on location.

Jen-Yung Lin , Bo-Kai Yang , Tuan Anh Do
"The Accuracy Enhancement of GPS Track in Google Map."
the Google MAP API does not provide the accuracy location information of each street. Therefore, the display track from the original GPS information. It can only be use for tracking and the report interval is 10 seconds.

He Li , Lai Zhijian
"The study and implementation of mobile GPS navigation system based on Google Maps."
Assisted global positioning systems (A-GPS) is adopted by mobile operation companies as the highest accurate positioning way in mobile location based services. The system is based on the Symbian operating system of old nokia phones cannot be implemented on Android

III. SOFTWARE REQUIREMENT SPECIFICATION

- Android Studio
- JDK(Java Development Kit)

➢ **Programming Language**

- Java
- PHP

➢ **Database**

- MYSQL

IV. COMPARISON BETWEEN EXISTING SYSTEM AND PROPOSED SYSTEM

Disadvantage of Existing System

- Existing system shows only gas stations and service centers.
- Show only the location of the shop and does not provide any description of the location such as contact no, timings, etc.
- Traffic information is not provided by this system.
- Photo of the location is also provided along with the location.

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Advantages of proposed system:

- Proposed system function which shows the location of the puncture repairing shops and garages on the map.
- It provides audio based proximity alarm system.
- Provides access to all your vehicle documents on the go.
- Provides real time traffic updates.
- Fuel efficiency calculator is provided with the system.

V. SYSTEM ARCHITECTURE

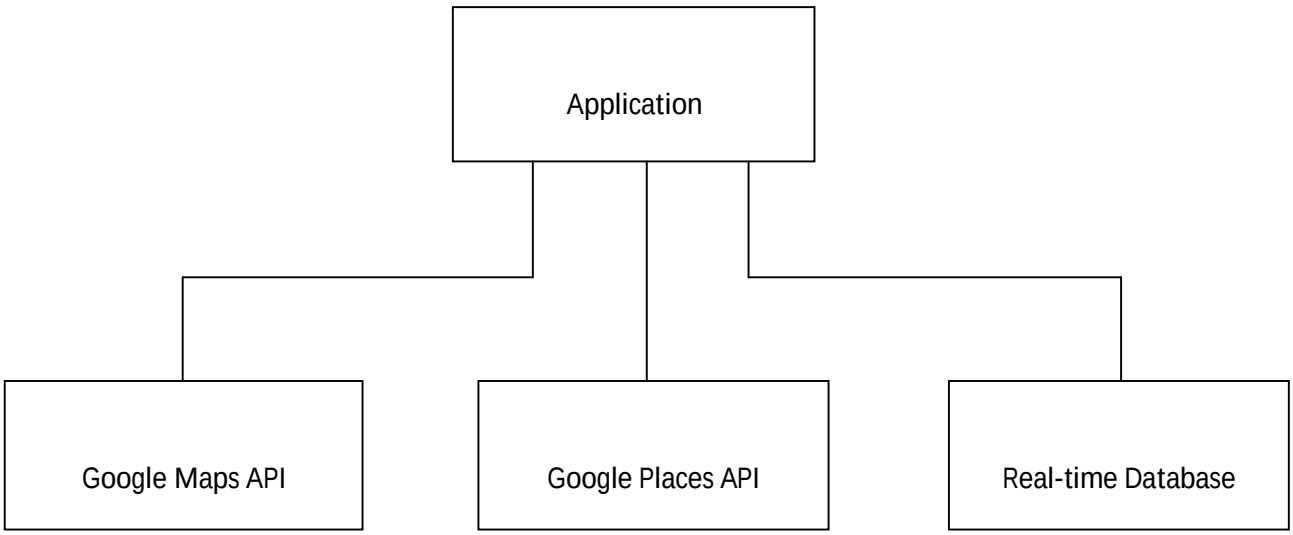

Figure 1: System Architecture

VI. CONCLUSION

In this project, we designed an Smart Vehicle Repair and Puncture Service App with functions: Nearest Puncture Shop And Details, Nearest Service Center/Shop, Nearest Petrol Stations, Live audio Based Traffic Update.

REFERENCES

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