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Digital Garage System for Android Smartphone

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Abstract: The objective of the research is
1) To study on the development of the Digital Garage System for Android Smartphone Knowledge Management.
2) The design of the DSG system for Android smartphones;
3) The development of the DSMS for the Digital Garage
System for Android smartphones ; A digital garage system will be supported by the requester. In this system, users will be able to look at their car document and send the user with an alert notification and also give user service notification. In this system admin can also include service input and vehicle and admin section.

I. INTRODUCTION

It has had a huge impact on sectors, consumer behaviour, and perceptions. This is a complete overhaul that not only affects the automotive market, but also business and sales models. The current state of the new car sales process and structure will be analysed, and digitization will be studied over the next five years in order to learn more about the new car sales process and structure. In order to emphasise clear changes in context, a number of visual patterns have been recorded in a range of process-oriented heat maps over the course of five years. It looks like there's going to be a big shift in the consumer buying process. With improved customer service in mind, new pathways incorporating digital touchpoints need to be built for customer experience. In terms of customer engagement, dealerships will still be important, but they will not exist in their present form. In addition, findings indicate that online transactions will increase in importance and that New e-commerce sites will be developed as additional distribution channels. At the end of the day, integrating the physical and digital worlds into a single, holistic omnichannel approach is the most important step in being able to gain a competitive advantage.

II. LITERATURE SURVEY

1) *Paper Name:* An In-Vehicle Information System For Its Information Management
Authors: *Philip F. Spelt, Daniel R. Tufano*
Description: This paper presents an In-Vehicle Information System (IVIS) research and development (R & D) facility to investigate management of messages from Intelligent Transportation System (ITS) Services. These services include navigation and route guidance (N & RG) systems, real-time traffic management, and non-ITS devices such as cell phones and pagers, as well as other information to be presented to the driver. The introduction into road vehicles of multiple information sources related to the ITS raises issues concerned with driver distraction and cognitive overload, as well as problems which stem from dealing with multiple device interfaces. The IVIS serves as the interface between the driver and all the information sources, including both input from and information display to the driver. However, introduction of an IVIS raises a number of issues which relate to things such as proprietary messages, message prioritization across devices from different manufacturers, and safe access to the vehicle manufacturer's proprietary data bus.

2) *Paper Name:* A Comprehensive Composite Digital Services Quality Assurance Application on Intelligent Transportation System
Authors: Chia-Chun Chuang, Wen-Lin Cheng, Kai-Sheng Hsu
Description: With the speeding-up on Internet and high maturity of Internet of Things (IoT) development, there are many kinds of composite digital services has been sprung up like mushrooms such as smart home, smart city, smart health care and etc. In recent years, the Intelligent Transportation System (ITS) has been more and more popular in transportation industry. ITS provides immediate traffic information for vehicles location tracking, vehicle dispatching, also can be used on taxi management and police cars, fire trucks, ambulance dispatching when serious accidents occur. On quality assurance, ITS involves many kinds of Information and Communication Technology (ICT) devices and services. Different services and devices have their own Operation Support System (OSS) and it is hard to exchange information. Therefore, our research proposes a framework to integrate end-to-end quality assurance information based on Digital Service Reference Architecture (DSRA) supported by TM Forum.

Our framework manages all sub-systems of ITS such as Mobile virtual private network(VPN), fixed-line VPN, ITS car devices, dispatching service platform, etc. It made root cause analysis consuming time less than
10 minutem.and can improve time to market and quality assurance for ICT composite digital service.

3) Paper Name: Improved Vehicle Positioning for Indoor Navigation in Parking Garages through Commercially Available Maps
Authors: Johannes Wagner*, Carsten Isert*, Arne Purschwitz* and Arnold Kistner**
Description: We present a method that allows precise vehicle positioning inside buildings like parking garages. It works independently of GNSS and instead uses dead reckoning(DR) and a digital map of the parking garage. No additional hardware or infrastructure is needed, since theused inertial sensors and odometry are available in current premium series vehicles. Only additional map data for parking garages is required using existing format specifications. This data can be gathered with current technology available at map companies or from building plans. The position can be determined approximately to a single parking spot and be used for further indoor navigation on a mobile phone. Concerning this particular use case we have also implemented an interface for synchronization of location information between the mobile positioning solution and the car. When leaving the building navigation can start immediately to guide the user to the right exit.

4) Paper Name: The Development of information management system on Android Smartphone for Car broken down service.
Authors: Srinuanfongmanee, Chalida Janthajirakowit, ThidaluckYouyen
Description: This research aims to to study in the Development of information management system on Android
Smartphone for Car broken down service to design the Development of information management system on Android
Smartphone for Car broken down service and to Development of information management system on Android
Smartphone for Car broken down service. The system can help requestor with car broken down to choose a garage, display the results in the form of a Google Map and send are quest to the garage. The system can help the garage to know the requested information displayed in the Google Map, then accept or reject the request. It allows help the administrator to filter the garage. It is convenient for requestor, garage and the administrator as well.

III. PROPOSED SYSTEM

After buying a car, showroom or car seller gives user id and password to the user. User login to system and see the our vehicle details and required documents digitally. System gives insurance reminder to the user before 1 month of a insurance expired. System also given service reminder to the user before 8 days of a service date. User can give feedback regarding system. Admin can see the user feedback. System generate the feedback graph and report it to a admin.

A. Problem Defination

Currently, there is no such system that alerts insurance and service customers to the market. Another advantage of this strategy is that users can add suggestions for services. We can see accurate vehicle information by using a unique vehicle ID.

B. System Architecture

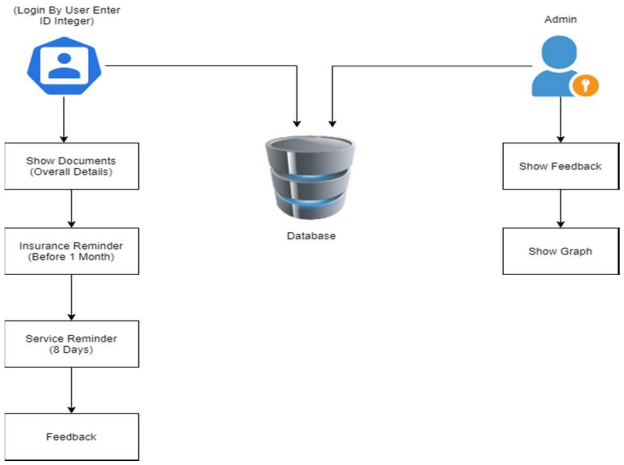

Fig. System Architecture

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IV. CONCLUSION

This proposed system is very useful for user and also car sellers. This system gives insurance and service reminder to user. User can manage their car details digitally which decrease the paper work.

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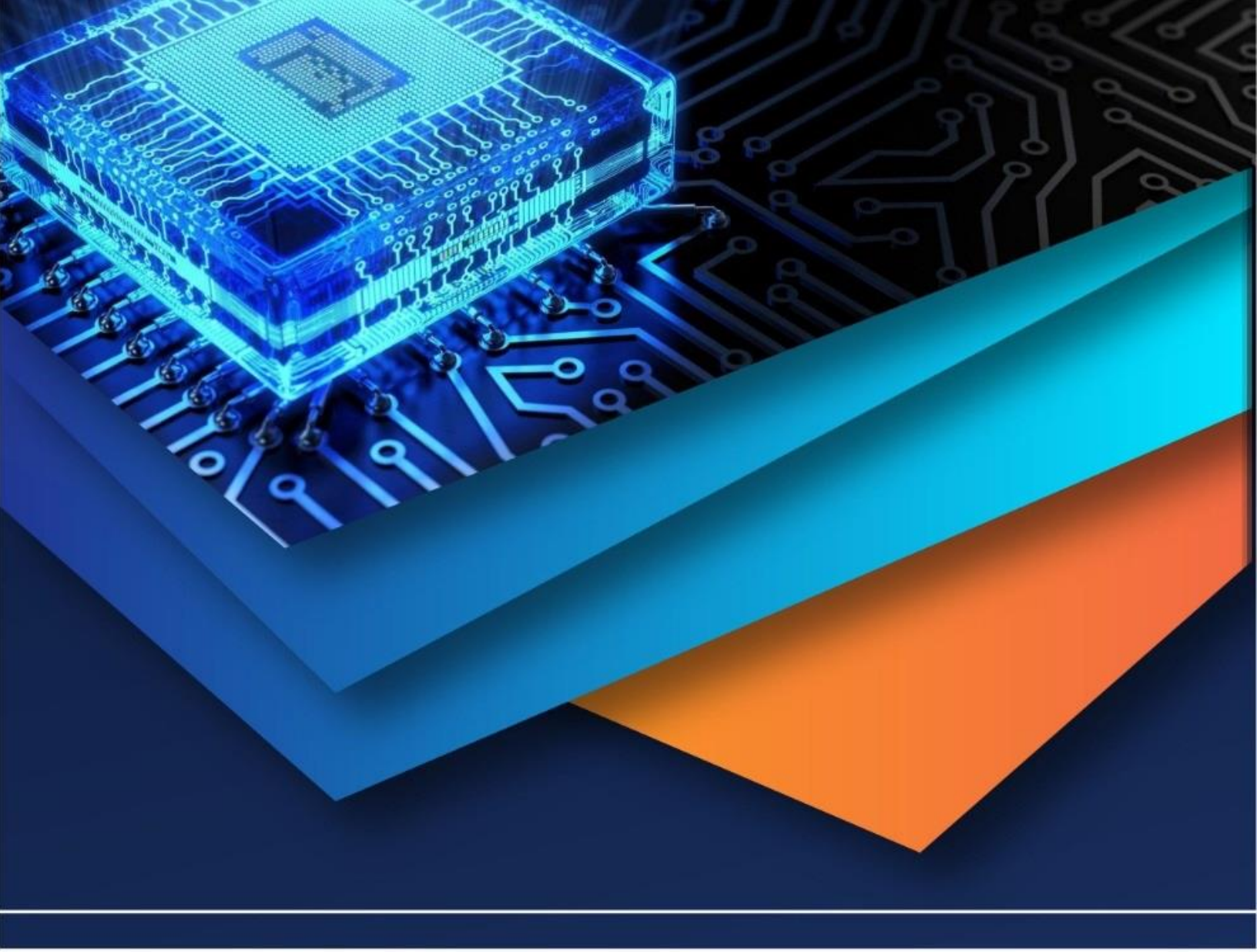

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