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MR MECHANIC

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Abstract: - People in today's world don't want to travel and instead want to live a luxurious life. Our group will create a mobile app for the 'A vehicle Service Center'. The app works on any tablet or gadget that is compatible with it. This software allows bike and auto owners to interact directly with mechanics, and in this contemporary age, we provide a free devour and drop service to our consumers. The user may locate the service center, obtain its location, and review and select any of the services offered by the service center. The user may send a letter to the dealer inviting them to pick up their vehicle, schedule a service appointment, take a test drive, and purchase extras. This application is also very user-friendly.

Key Words: - Location, User-friendly, communicate, Compatible, appointment.

I.INTRODUCTION

Basic Introduction

The internet tends to be the spine of all technologies. [1] The motorcycle & car service center control device (B&CSCM) is a innovative step in the subject of carrier facilities. [2] Any motorcycle & automobile person can employ such an app to locate and speak with the provider centers inside the vicinity.

Background Information

The reason of this assignment is to provide a bike & car or another car-cell servicing gadget extra efficaciously than the present system.[1] We provide a mobile application for Vehicle service at their doorstep. [2]The app will enable any motorcycle user to search and speak with any automobile carrier Centre within the area. Examine previously published work in the same area.

[3] The consumer can locate the service middle, get its vicinity and test and pick out any of the offerings furnished through the respective middle. [4] The user can ship a request for pick out and drop, appointment for servicing, check power in addition to add-ons purchase to the supplier.

Motivation

A goal of our project is to create an internet application that will be useful to individuals. [2] We noticed that many people desire a lavish lifestyle. However, they have faced several challenges in the past. Even though we are also experiencing same issue in the city. Many individuals do not know what time it is in the west.

So, let's see what we can do to solve this issue.

[3] This is the foundation of our application. People that use our app book their automobile service rather than going to their location. There is no reason for people to spend their time.

Problem Statement

[1] Lack of proper use of internet may lead toward poor facilities, a bunch of trouble losses of valuable time. [2] IN case of the people of our country, because of not having proper knowledge about the use of internet, they are going to door to door facilities.

Project Objectives

- [1] To build a smart city service application to save money and Time.
- The app will permit any motorcycle & vehicle person to search and communicate with any bike & automobile service center.
- [2] The consumer can ship a request for select and drop, appointment for services, check power as well as accessories buy to the provider.
- The provider procedures these requests and responds to the user via push notifications.

Project Scope

- [1] offering statistics regarding door todoor facility.
- Designing a database for storing associated facts.
- Get region/deal with of the advertisement the use of the map.
- establishing a name plan through GSM module.

II. LITERATURE REVIEW

[4] Before developing this app, I conducted a thorough survey of various service centers by visiting them and informing them that if they currently have 5 customers per day, they will have 20 customers with the help of my app, and that they must pay me a token or commission charge of 20% for each customer who visits their service point through my app, or if they require

that their old/new customers register my app, they must pay me a token or commission charge of 20% for each customer who visits their service point through my app. On iOS/Android, this software is entirely free.

- [4] Royal Enfield offers a web-based bike service. [5] Royal Enfield is a motorcycle manufacturer based in the United Kingdom.
 - Flick thru the whole product portfolio.
 - Enquire about new motorcycles.
 - e-book a provider appointment.
 - provide feedback regarding Motor Cycles.
 - e book a company appointment.

Bajaj gives information about motorbike servicing stations. It also gives you the contact facts for an actual parts provider. [4] Customers can communicate with a specific station by dialing a number. They are unable to provide online booking services and do not have an Android application. Through its website, Hero MotoCorp offers an online booking service. They only provide information about approved dealers. Customers can communicate with a specific station by dialing a number. They don't have a mobile app for Android. Mahindra Bikes only lists approved dealers and repair shops on their website. There is no way to reserve a service online or make a payment.

III. COMPARATIVE STUDIES

[1] There are some packages which have a few obstacles. maximum of utility have a same problem. exceptional application has deferent capabilities however, in our utility, distinctive feature to that software. Such as door-to-door pick up and drop. [2] alternatively our utility additionally permits the Google map to track the location.

Below image is show how our application different for other application:

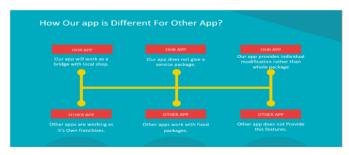


Fig1: - App features infrastructure

In above pictures we saw how our app is different for other application. Our application will work as a bridge with local mechanical shop. Second Our application not give any service packages. Third Our application provide individual modification rather than whole package.

IV. CHALLENGES

Preserving the application easy and clear:

[1]If the app is very complicated and consumer can't recognize the way it works, then the consumer may be pissed off and could supply a bad review approximately the application.[1] So the functions of the app should be very clear.

Interactive Application: One important aspect in a software program venture is its Interactions. [1] cellular devices offer many functions with excessive fine sensors. So, developing interactions is time ingesting and may be very complex in design phase.

Maintaining a connection with the user:[1] Mobile software market is dynamic due to excessive wide variety of innovations. So, connection with the users is very vital.

Performance: [1] One of the crucial challenges is to design well performing and bug unfastened utility which desires minimal charge of battery.

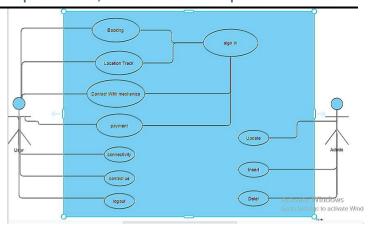
V. REQUIREMENT SPECIFICATION

Use case Diagram

[1]A use case diagram at its best is a illustration of a user's interaction with the machine that suggests the connection.

Usability Requirement

- An android OS primarily based handset (Android model 4.2 - 7.0) with net connection and GPS guide.
- The interface of the utility is suitable even for the coloration-blind people.
- all of us who knows English can use this utility.



Dataflow Diagram

A DFD suggests what shape of facts may be enter to and output from the tool, how the facts will increase via the device, and in which the statistics can be stored.

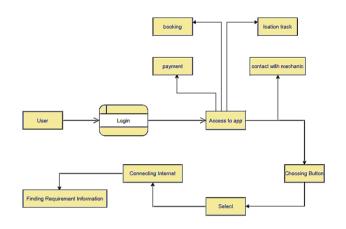


Fig: 3 Data Flow Diagram

Non-functional Requirement

- [1] Assist textual content may be furnished in English.
- The manner of the use of the utility will usually be to be had.
- [2] There is no consumer restrict for browsing the application.
- This application may be used most effective on android OS.
- in the course of browsing via the application machine.

Design Requirement

Flutter: [1]Flutter is an open deliver framework via manner of Google for building stunning, natively compiled, multi-platform packages from a single codebase.

Android SDK: [1] Android SDK provides the API libraries and developer equipment important to build, take a look at, and debug android programs.

To expand Android utility, Android SDK is the vital device. [1] This SDK may be very comprehensive tool that contains no longer best the library for improvement. however also includes the simulator to check the application.

Java Development Kit (JDK): JDK is an implementation of either one of the Iava SE. Iava EE or Java ME structures.

Android Virtual Device (AVD): The AVD supervisor gives a graphical interface which run the android utility known as emulator.

QEMU-primarily based tool-emulation tool that can use to debug and check programs in an real Android run-time surroundings.

VI. TESTING & EVALUATION

Usability Test

In Usability Testing we usually test its performance, user friendly or not, speed, apps functionality, user experiences etc. [6] We ran a survey among 40 users their aged between 18-30.0n this survey 30 of them are male and 10 of them are female.

We asked them few questions about our app and they reply our questions. By analyzing those questions, we set up a survey report about our app.

Finally, we found the result is -

- Better quality application
- Better performance
- Better UI
- User friendly
- Easy to use

Unit Test

[11] Unit test is very important thing it help us to designing and implementing our project. It is a process which can help us to develop our project. [7] In unit test there is a table and it has some option which are independently tasted and implemented after passing the test. In unit test there is options related our project.[13] It was done when we implemented our codes and project. There is some condition and variables those must be fulfill when we test our project.

[13] The test result of our project is given below. Under there is a table containing some requirements. Let's see our project can fulfill those requirements or not.

VII. FUTURE WORK

[14] In future work we will develop a batter UI and make user-friendly application. [6] We will add some more features like at this time we only develop a booking system after that I will add some more features like user add they want to change parts they add manually.[14] In future make more efficient design and make easy to use application[6].

VIII. CONCLUSION

Automotive Service Center Management System (ASCM) flows, structures and operates. ASCM is easy to use, i.e. user friendly. The Android shop is free of charge. It is therefore time to save time and cost-effectively apply. We may thus say that the proposed method can be employed with contemporary technology to minimize human efforts and to enrich human lives.

IX. REFERENCES

The article suggested illustrates how the [1] Implementation of Cloud Messaging System Based on GCM Service. Computational and Sciences (ICCIS). 2013 Fifth Information International Conference. Penghu Li Transp. Manage. Coll., Dalian Maritime

> Univ., Dalian, China Yan Chen; Toying Li; Renyuan Wang; Junxiong Sun

[2]A public safety application of GPS-enabled smartphones and the android operating system |-Systems, Man and Cybernetics, 2009. SMC 2009. IEEE International Conference-Whipple, J.Inf. Syst. Eng. Dept., Southwest Res. Inst., San Antonio, TX, USA Arensman, W.; Boler, M.S. H. Poor, An Introduction to Signal Detection and Estimation. New York: Springer-Verlag, 1985, ch. 4.

[3]Unified platform for the delivery of notifications to smartphones notification | Carpathian Control Conference (ICCC), 2012 13th International. Moizisova. Inst. Control Α. of Informatization of Production Processes, Tech. Univ. of Kosice, Kosice, Slovakia Mojzis, M. E. H. Miller, -A note on reflector arrays (Periodical style—Accepted for publication), I IEEE Trans. Antennas Propagat., to be published.

[4] An improvement of the shortest path algorithm based on Dijkstra algorithm -Computer and Automation Engineering (ICCAE), 2010 The 2nd International Conference on (Volume:2). Ji-xian Xiao Coll. of Sci., Hebei Polytech. Univ., Tangshan, China Angling Lu.

[5]Developing Android an based learning application for mobile devices, Telematics and Information Systems (EATIS), 2012 6th Euro American Conference, de Clunie, G.T.Fac. de Ing. de Sist., Computacionales, Univ.Tecnol. de Panama, Panama City, Panama Serrao, T.; Monteiro Braz, J.R.-. Serr o, T. Rangel, N. Castillo, A. G mez, B. Rodr guez, . de Barraza, . Rilev, J.

[6] BusinessDictionary.com. (2018). Which of your

[12] Made, I. G., Wibawa, S., Sukarsa, I. M., & Samp; W, A. A. K. A. C. (2015). Aplikasi sistem reminder masa kadaluarsa berbasis GIS dengan platform android. Merpati, 3(1), 31-39.

[13]Syani, M. (2018). Perancangan aplikasi pemesanan catering berbasis mobile android. Jurnal Ilmiah Ilmu dan Teknologi Rekayasa, 1(2)

[14] Ratnasari, D., Hadi, H. F., & Dudiarto, J. (2018). Rancang bangun aplikasi penyewaan lapangan futsal berbasis android. JUTI: Jurnal Ilmiah Teknologi Informasi, 16(2), 144-157.

[15] Dewi, F. K. S., Indriasari, T. D., & amp; Prayogo, Y. (2016). Rancang bangun aplikasi pengingat kegiatan akademik berbasis mobile. Jurnal Buana Informatika, 7(4)

friends needs to learn this term? [online] Available At:http://www.businessdictionary.com/definitio n/motivation.html [Accessed 5 Apr. 2018].

[7]Play.google.com.(2018).[online]Availableat:ht t s://play.google.com/store/apps/details?id=flat matebd.app[Accessed 5 Apr. 2018].

[8]Smartdraw.com. (2018). Data Flow Diagram -Everything You Need to Know About DFD. [online] Available at: https://www.smartdraw.com/data-flow diagram/ [Accessed 5 Apr. 2018].

[9]Lix.polytechnique.fr.(2018).WhatisSystemsAr

hitecture?.[online]Availableat:https://www.lix.p olytechnique.fr/~g olden/systems_architecture. html [Accessed 5 Apr. 2018].

[10]Lucidchart.(2018).WhatisanEntityRelationsh ipDiagram.[online]Availableat:https://www.lucid chart.com/pages/er diagrams [Accessed 5 Apr. 2018].

[11] Ameta, D., Mudaliar, K., & D., Patel, P. (2015). Medication reminder and healthcare - an android application. International Journal of Managing Public Sector Information and Communication Technologies (IJMPICT),6(2), 39-4 IJCR