E WASH: DOOR TO DOOR CAR WASH

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Abstract - *Time is very precious for everyone who work hard to achieve their goals. So, with the use of technology we can save some very important time of our clients. This paper present E WASH, an android application designed for saving the extra efforts of the clients. This app works by making real time use of GPS. The client has to send their location to us through this app and then choose the type of service they want to use, on the basis of which our nearest service dealer will provide the same.*

*Key Words***: Android, GPS**

1. INTRODUCTION

The main objective of this project is to save time and money of the customer and provide them the car wash service in their idle parking time and at their location without any extra efforts from the customer's side. The author aimed to develop this system using the top gossiped technology like Android so as to make it comfortable and available to majority of the people at no cost.

The mission of E Wash is to provide top-quality washing and detail service for luxury car owners. The E Wash team will work to keep employees satisfied in order to maintain impeccable customer service.

Our application will eliminate long queues, appointments and high prices for the cleaning of customer's vehicles. This application allows you to schedule and monitor your washes. The application is so user – friendly that you can get your car washed in just a single click. E Wash is the smarter way to wash your car. Let the carwash studio come to your doorstep. You will never have to travel or make a phone call for your carwash again.

2. LITERATURE

Time has always been a great concern for the people so there has been a lot of work already done in this context. Our aim is to look for the improvement or changes based on the survey through which we can satisfy our clients much better than the previous ones. Some of the applications are as follows :-

- **Ease Go Wash – Car Washing & Detailing Service[1] :** Ease Go Wash could be a Vehicle washing venture. With Ease Go Wash you'll be able to get your cars or any vehicle washed anywhere and anytime at your Door-step also its the most effective affordable thanks to get your car or any vehicle washed and cleaned also comfy GO WASH we use best and tested and high-quality products to wash your vehicle at the identical time keeping the washing cost low.

- **MobileWash Car Wash On-Demand[2] :** MobileWash is that the mobile car wash industry leader bringing the car wash on to your home or work. MobileWash is that the most affordable on-demand car wash app within the industry. Our proprietary software uses your service location and vehicle type to make sure you get the most effective price.

- **Easy Wash Pass[3] :** Immediate activation of car wash services at numerous contracted washing points throughout Italy and shortly within the countries of the eu Union. It's the primary App within the world that enables you to activate the washing services without having to urge out of the car.

- **eWash: You Call We Wash[4] :** Tired of driving to the car wash every week? Well eWash will bring the car wash to you. eWash is an on-demand car wash service. Simply place an order for a car wash, and wait for the magic to happen.

In the existing systems most of the applications do not work properly and those which work has many of its services paid, making very difficult for commoners to be able to use this kind of application which helps them in reminding and organizing their tasks.

The survey shows that there are plenty of apps present in market which deals with the same with varying features. So we aim to build an app that fulfill all the requirements completely and fully satisfy the customer, with all the necessary services which the client may need or desire.

3. TECHNOLOGIES

3.1 ANDROID[5]

An operating system that comprises of modified linux kernel which is mostly used in touch screen phones. It was developed initially by Android Inc, but later on bought by Google.

Basically android app is coded in java or kotlin and rest features are supported with different technologies like as for database sql is used, for interface javascript, etc.

3.2 JAVA

Java is a general purpose object oriented language. Its open source and works on different platforms. The framework and classes makes it to use for android development.

3.3 MYSQL

For storing, retrieving and manipulation of data in a database we require software which can perform them all. MySQL comes in two editions they are:

Some features of mysql are:
    1) Their Cross platform support.
    2) MySQL uses standard SQL.
    3) It can be compiled multiple platforms
    4) MySQL is free and easy to download and use.

      These are the main technologies that are going to be implemented in the application and some of more may be later on depending upon the requirements for the betterment of it.

4. WORKING MODEL

The application will be controlled by different modules of code which are:-

4.1 SIGNUP/LOGIN

The sign-up/login module will be controlling the user sign up where the user's voice and other necessary details such as given below will be recorded in database.

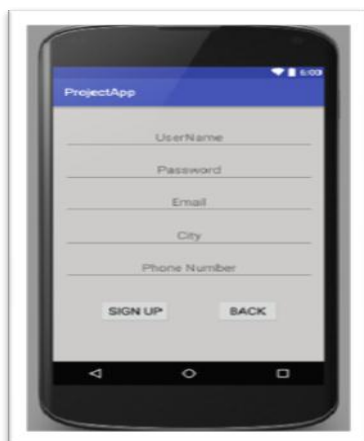- Username
- Password
- Phone Number
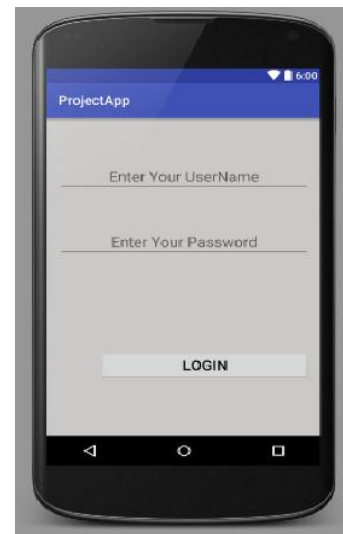- Email Id
- City

Fig -1: Signup Page

Fig – 2: Login Page

4.2 SERVICES

This module will give users the list of options available to them in which they can choose the right one as per their requirement.

      Currently there are two services available which can be changed or updated as per demands by the clients. The options available are –

- Maintenance Services
- Washing Services
- Combo (Maintenance and Washing Services both)

4.3 LOCATION

In this module, the application offers users to give the location where they want to use the services, provided by us.

      To use the location services, the app must request location permissions

      <manifest … >
      <uses-permission
      android:name="android.permission.ACCESS_COARSE_LOCATION" />
      </manifest>

      There are two ways through which any user can give their location –

- *Current Location*
- *Choose Location (manually on map)*

4.3 SELECT VEHICLE

The application will prompt user to choose their vehicle type, then choose the model from the various models available in market, as the pricing will differ model by model of the vehicle.

4.4 TIME SLOT

The user has to book the time slot in which they will be available for the services, like maintenance or cleaning/ washing, etc. At the selected time, our staff will reach the client and will perform the desired work as per demand of the client.

4.5 CONFIRM AND PAY

The application consists of a Confirm and Pay button which will be selected only after providing all the necessary details. On selection of this button, user will be prompted to make payments based on the type of service choosed and distance, which will be automatically calculated.

5. ADVANTAGES

- On-site convenience advantage
- Easy user interface and availability of the Application will be an advantage

- Eliminating the hardships of going to and from the car wash shop.
- Making life easier and making people more comfortable
- On time service guarantee without any extra efforts from the customer's side
- Saving fuel, saving money, and saving time
- Eliminating the hardships of going to and from the car wash shop.

6. CONCLUSIONS

Here with this application, the intension is to give an overall solution to the society for saving the amount of time being wasted during the car wash or maintenance of the vehicle.

The technologies used are in demand and this makes it easily accessible to the entire real world user. This application, no doubt, saves a very large amount of time in everybody's life which they can use in any other profitable way they want and also give them the easiest way of maintaining their vehicle and keeping it clean anytime anywhere.

REFERENCES

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https://www.easegowash.com

[2]   Android application developed by MobileWash

https://www,mobilewash.com/contact/

[3]   Android app developed by EasyCare

https://www.easywashpass.it?lang=en

[4]   Android app developed by EWash Pte. Ltd, 20 Sin Ming Ln, MidView City, Singapore

[5]   Android Programming :- The big nerd Ranch guide by Bill Phillips, Chris Stewart and Kristin Marsicano(3rd edition).