

# Garage on Fingertip

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**Abstract**— This project, “Garage-On-FingerTip”, is designed to be a cost effective and time saving venture for garage-help via the use of android application. This project is aimed at providing help to the people who face problems in their automobiles at any time. This project would be useful in booking garage related services by comparing and choosing the most effective option for oneself. In this modern and fast technologically developing world, people find ways to complete their interests in a short span of time. It locates the nearby garages for the user with significant details included with it. This project would help in saving time, money and energy of the people in need for garage services by providing them information regarding the garages available around the region one is present. This project will help people to book garage related services for the specific vehicle and the service will be provided at the doorstep. And, if vehicle broke down in suddenly at any point user just have to open the application, locate the nearest garage and book it and the garage will provide the service at that provided address instantly.

**Keywords:** Garage on Fingertip

## I. INTRODUCTION

This project, “Garage-on-finger-tip”, is designed to be a cost effective and time saving venture for garage-help via the use of android application. This project is aimed at providing help to the people who face problems in their automobiles at any time. This project would be useful in booking garage related services by comparing and choosing the most effective option for oneself. In this modern and fast technologically developing world, people find ways to complete their interests in a short span of time. It locates the nearby garages for the user with significant details included with it. This project would help in saving time, money and energy of the people in need for garage services by providing them information regarding the garages available around the region one is present.

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This project “Garage-on-finger-tip” is live at Android Play Store a currently working in Noida region. This application is the solution we found to help people travel without worries regarding their car breakdowns in an unknown place. The application would provide the complete details regarding the location and distance of the garage from the location provided by the user. The services and charges are as well available on the application itself and the car pick up services, if available, is also mentioned corresponding to the garage name and details. This application provides the list of nearby available garages and the services the garages provide with their cost estimation and location in the application. This helps the user choose and locate the garage

that works best as per their need. The application is feasible to everyone as it is an android application that is available with almost everyone in the present days. The application as well requires the internet connection and that too is available with people in present days. The .apk of the application is only 5.2 MB. The space required by the application after installation is as well 12MB itself which is the space easily available in user’s android phone.

The need for the development of the application is to help the user invest less time and provide timely help in the situations when one is stuck due to their automobile breakdowns. There are also certain scenarios where people travel to tourist places or their places of interest but are not quite familiar with the places and in such situations when faced with their automobile breakdowns, it turns out to be troublesome for people to enjoy their journey and continue with one too. This application is also very useful for the people who want their car to get service at home only frequently. The services and charges are as well available on the application itself and the car pick up services, if available, is also mentioned corresponding to the garage name and details.

## II. OBJECTIVES

The aim of this application is to provide the users with the desired choice of selecting the nearby garages in accordance to their needs and cost satisfaction. This application is the solution we found to help people travel without worries regarding their car breakdowns in an unknown place. The application would provide the complete details regarding the location and distance of the garage from the location provided by the user. The services and charges are as well available on the application itself and the car pick up services, if available, is also mentioned corresponding to the garage name and details.

## III. TYPES OF USERS

### A. Admin Login

The admin is the one that controls the users of the application and the addition and deletion of the vendors and services are all the responsibilities of the admin. The authentication of the user and changing the password and all are also the features controlled by the admin. The sub module to this is:

- Booking by Users
- Add vendor
- Add/Remove Service

### B. User Login

The important module of the application is the one that is for the user end. The user is the ultimate part of the application. The user is the one that books the services. The submodules in this module are:

- User SignUp/SignIn
- Location

- Full Service/Partial Service
- Booking
- History

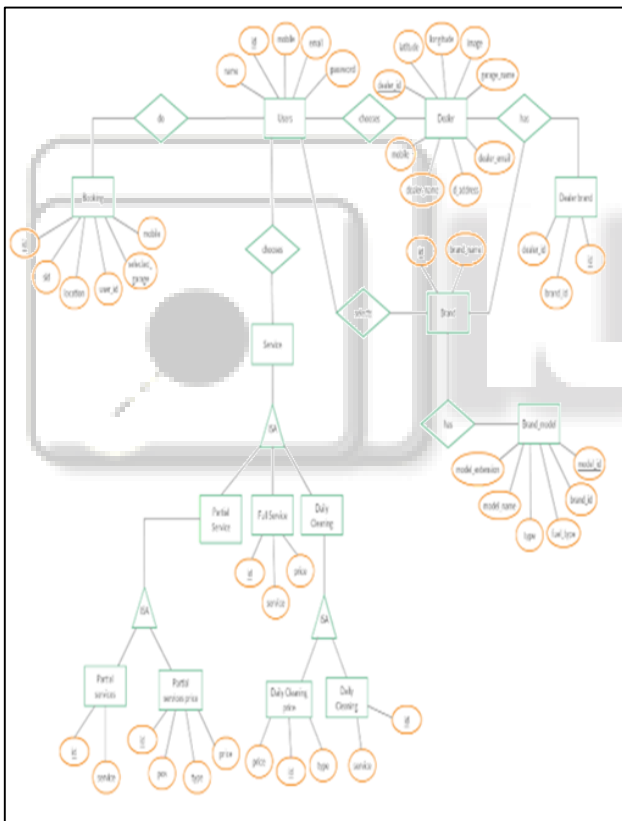
#### IV. HARDWARE REQUIREMENT

- Smartphone with Internet Connectivity
- Location-Enabled
- i3 Processor-Based Computer or higher
- Memory: 4GB RAM or more
- Hard Drive: 50 GB

#### V. SOFTWARE REQUIREMENT

- Android Development Toolkit(ADT)
- Visual Studio 2010
- SQL Server 2008
- Android 4.0 or higher
- Windows 7 or higher

#### VI. E-R DIAGRAM OF SYSTEM



#### VII. ADVANTAGES

- Completely automated online booking of garage using a mobile application.
- The Order can be placed using personal android phones.
- Easy to book and see the price of particular service that you are booking, also include chatting with the respective garage admin.

#### VIII. DISADVANTAGES

- Requires an active internet connection.
- Requires Android phone if the user is booking.

#### IX. FEATURES

Since the system will be available only the admin logs in the amount of load on the server will be limited to the time period of admin access.

##### A. Easy Accessibility:

Records and receipts can be easily accessed and store and other information respectively.

##### B. User-Friendly:

The android application will be giving a very user-friendly approach for all users.

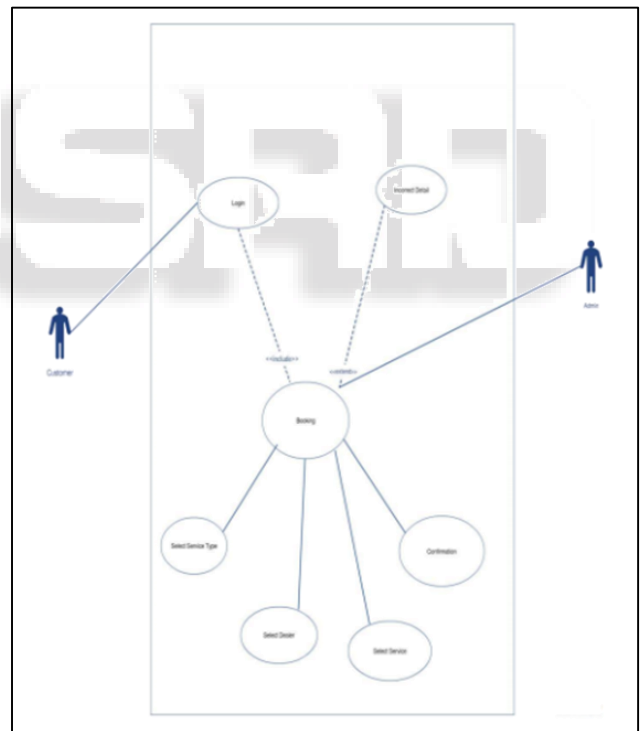
##### C. Efficient and reliable:

Maintaining the all secured and database on the server which will be accessible according the user requirement without any maintenance cost will be a very efficient as compared to storing all the customer books data on the spreadsheet or in physically in the record books and files.

##### D. Easy maintenance:

Garage on Finger Tip is design as easy way. So maintenance is also easy.

#### X. USE CASE DIAGRAM OF SYSTEM:



#### XI. CONCLUSION

The development of Garage on Finger Tip, Mobile Application involved many phases. The approach used is a top-down one concentrating on what first, then how and moving to successive levels of details.

The first phase started with a detailed study of the problems and prospects of booking of garage. In the course of this study, many problems were discovered to have hindered the effectiveness of the existing manual system. These problems, information needs and activities were

documented and later used as the basis for system design, which immediately followed the first phase. The design phase was concerned primarily with the specification of the system elements in manner that best met the organization's business needs.

During this phase, strict adherence was made on proven software engineering principles and practices. To implement this design, a computer program was then written and tested in Android Studio .Net environment.

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