

## SMS BASED DATA RETREIVAL SYSTEM

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**Abstract** - Short Message Service (SMS) has always been and remained an integral part of the mobile phone technology, in spite of the great evolutions which have been taking place in the technological world of ours since the last two decades, due to the wide range of acceptance of mobile-phones by the consumers as a means of exchanging and broadcasting text messages, and making use of applications such as, SMS-based mobile-banking services and control systems. Thus, there has been no forsaking the fact that the studies and projects which aimed at leveraging the mass and steady adoption of SMS-based systems has and will continue to emerge. In this given paper, we shall present the procedures and methods for developing an intelligent database program for a SMS-based data retrieval system using Android Studio. The main purpose of this project is to retrieve the data from an android device which is located at a different location from where we are and accessing the data using any other android device which is present at our given location.

**Key Words:** General Packet Radio Service (GPRS); Global Positioning Service (GPS); Short Message Service (SMS); Global System for Mobile Communications (GSM); Multimedia Message Service (MMS);

### 1. INTRODUCTION

The SMS based -remote control systems which are used as a general purpose device are beneficial for today's human generation, because the mobile-phones are the most widely recognized and frequently used technology nowadays. The SMS-based remote control systems for home appliances and daily use are easy to understand and implement, the system can be used to turn the electrical devices ON/OFF remotely via SMS or it can be used to handle more than one electrical device at a time, which are used in our home environment and day-to-day lives. In the simple automation systems where neither internet facilities or even PC's are provided, one can make use of a mobile-phone based device controlled system which is simple and cost-effective. An alternative solution for such requirement could also be a landline phone with an extension card. The application will be able to send necessary information such as email ID, address and other personal details via message using services like Multimedia service. One will thus not need to access to the internet services to get their personal information.

### 1.1 PROBLEM STATEMENT

People of today's generation always want to be in control. They are in need of real-time information wherever they are, whenever they need. With the advancement of technology, mobile-phone is no longer a luxury item commodity. It is easily available and possessed by majority of the population. One of the many popular communication technologies used today are SMS, MMS, GPRS, 3G, 4G etc. Among these, SMS is the most widely recognized and used. SMS is generally used for data retrieval & enquiry. Based on a command query sent via SMS, the result will be looked up from a database of the android device and returned to the sender via SMS.

### 1.2 PROPOSED SYSTEM

If you forgot your cell phone at your residence and you are in need to contact a person immediately, whose contact information is not available with you at that very moment. In such a situation you will have to call back at your residence and ask someone to retrieve that contact and then resend it back to you with the possibility of revealing your security information code in order to access your system. All this process consumes a lot of time. Instead of performing this gruesome process one can just send a SMS from someone's cell to his/her own mobile in the following syntax such as.

Eg: Password GET Contact

As a response we shall receive the required contact without having to reveal any security information code. The Command query which is sent in the SMS can then also be deleted immediately so as to secure the confidentiality of the password and the integrity of the android device data

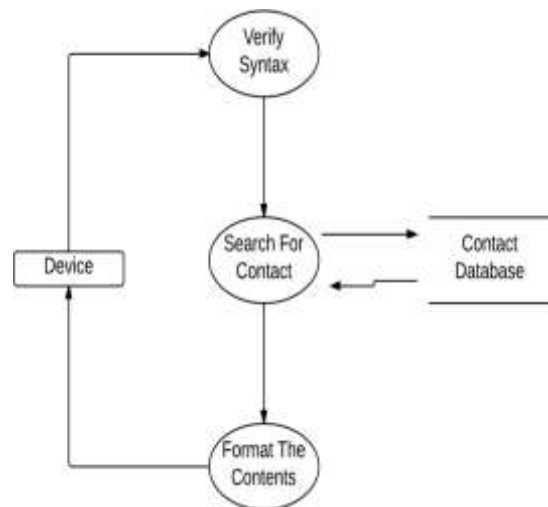
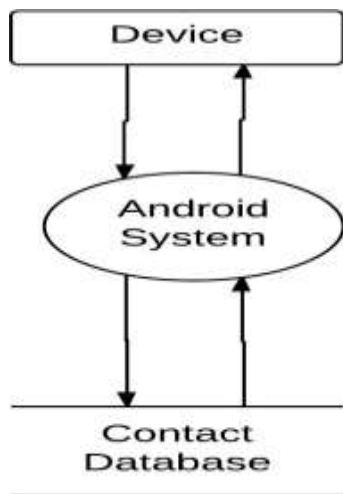
### 2.1 TECHNOLOGY USED

The technologies which are used to create this application system are:

#### Android studios:-

The basic coding of the application which is to be installed in the user's android phone is done in 'Android Studio'

**Data flow Diagram:**



**Fig Data flow diagram (Level 1)**

**2.2 DESCRIPTION OF MODULES**

In the given section, we will describe the working of the proposed system in detail, how the system takes an input and preprocesses that given input to obtain a sentiment review and the required output.

**Working**

The project work is in the following phases:

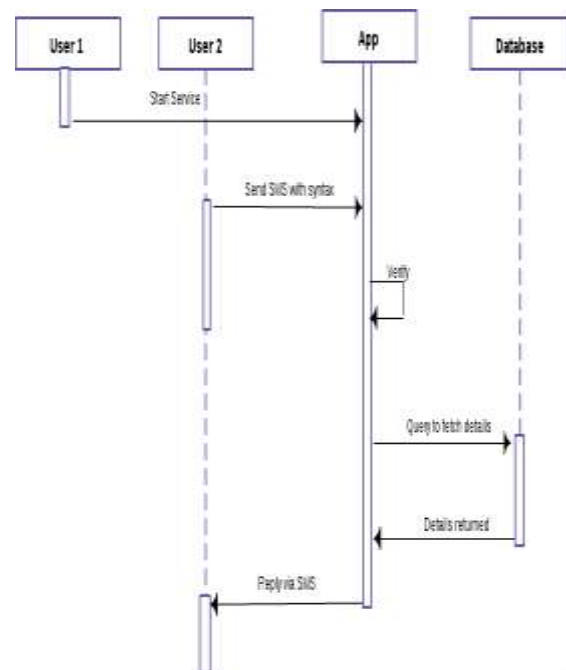
- It sends a SMS command which is pre-encoded in the application, to an android device where the application is installed.
- Verifies the security pin (the password which is already programmed and set during the installation phase)
- Receive the message which is sent from that android device.

**2.2 APPLICATION**

The application of this Project is as follows:

1. It can be used to change the profile of the Mobile device.
2. It is also possible to retrieve Contact Information from the mobile device
3. It is also possible to track the location of the mobile device as well as get information on recent calls sent or received by the system

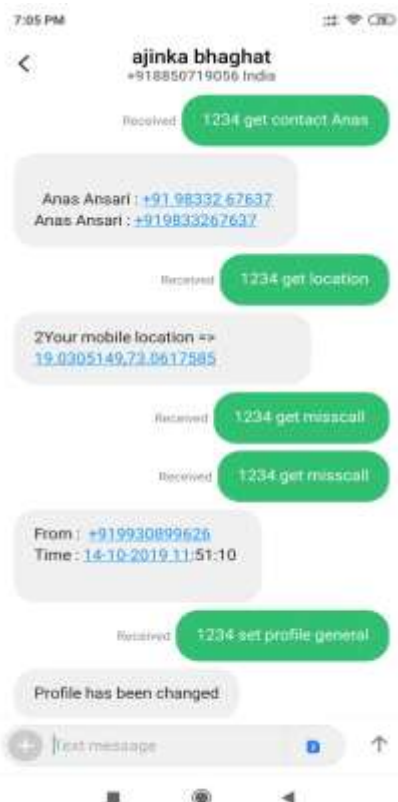
**Sequence Diagram:**



**Fig. Sequence Diagram.**

### 3. RESULT

The output of the proposed system is given below:



### 4. CONCLUSION

Hence, the SMS based remote control system made for general purpose is far more beneficial for today's human generation, since mobile phone is most frequently used technological device nowadays. The SMS based remote understand and control, as well as it is easy to implement and can ON/OFF the electrical devices remotely via SMS or it can handle more than one electrical devices at a time which are used regularly in our day-to-day environment. In

the simple automation systems, where neither the internet facilities or even a basic PC are provided, then one can make use cell phone-based control systems which is both simple and cost-effective at the same time. Alternatively for such requirement could be a landline phone with an extension card that could also be selected for the system. The application will then be able to send other information such as email ID, address and other personal information's via message using Multimedia service. One will then not require an access to internet in order to get his or her personal information.

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