

# iMobile: Remote Access for Android Phones

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## Abstract

*Now a days we are dependent on our mobile phones, if we forget the phone at home it seems we have lost a limb. That time we think that it would be good to access our mobile remotely, like the web browser. The application like iMobile, instead of accessing the computer remotely, we will access the mobile phones. An application creates a TCP connection with web application and the mobile phone and retrieves all the data like missed calls, contacts and message. Sometimes Cell Phone companies block "Incoming" TCP connection towards the phone over network to overcome this problem, through the application SMS could be sends with the application IP addresses and then it would be the mobile phone establishing the TCP connection. Then, it could easily and securely send the data using the GSM or 3G network. The AES algorithm used for the security purpose.*

**Keywords**—Mobile, IP address, GSM, AES.

## I. INTRODUCTION

To access the data remotely with the help of Android Mobile application into the web application. The basic idea is to design and develop a Backup Application which allows the user to browse through Mobile data like SMS and contacts and allows them to upload his data on a remote server. Performance upgrades for mobile phones due to jumping development of technology, such terminals that can store information that an individual saved called smartphone were released to market.

Remotely controlling the mobile phone, the lost phones information can be handled remotely. We can access the information and also we can track the mobile phone. This is useful for protecting the mobile phone and the information inside the phone. The remote terminal allows user to access the information and to send the remote SMS through web application and also to receive the SMS on web application from his target mobile. The interactive system facilitates user to have a backup of his call logs, SMS, and contacts on server.

## II. SYSTEM ARCHITECTURE

In installation of the application on phone the IP address of webapp system is entered for connection to the server. The server gives the access through the web to access the phones' data remotely via web.

While accessing the data on web, the data security is provided by encryption. For encryption the AES algorithm is used. On web we get the call logs i.e. missed-received-dialled calls, SMS logs and the data present on mobile phone and also allows sending the remote message through the web.

The Fig-I shows the system architecture of the system. That if our mobile phone is at our home and we are in office or anywhere outside the home and we need the information stored in the mobile phone or any contact from the phonebook or messages then it is not possible to access it remotely. But by using the iMobile application we can access the mobile phone remotely via the internet. The mobile phone is situated at home or other place and we can access it through the web application. The mobile phone data like call logs, messages, contacts and files stored in the phone can be accessed via this web application. Also the files can be downloaded from web and also

tracks the mobile phone. For the security of the data transmission on the web and the mobile application the AES Encryption algorithm is used for the data encryption. AES provides the security; it is the block cipher cryptography.

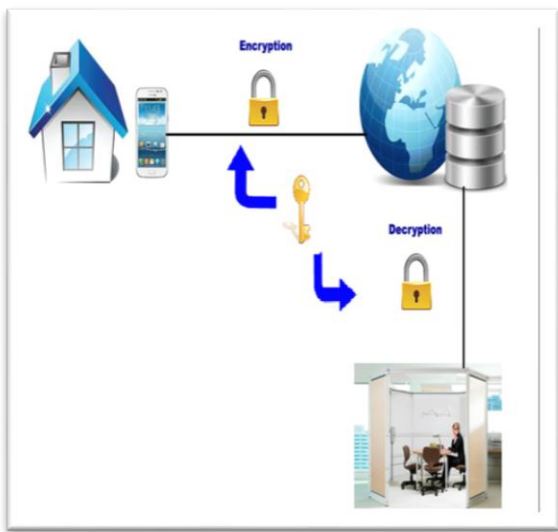


Fig. I- System Architecture

Downloaded from web and also tracks the mobile phone. For the security of the data transmission on the web and the mobile application the AES Encryption algorithm is used for the data encryption. AES provides the security; it is the block cipher cryptography.

### III. LITERATURE SURVEY

Performance upgrades for mobile devices took place due to jumping development of technology, so high-performance terminals that anyone can directly search and amend desired information anywhere and anytime, namely, mobile communication terminals called Smartphone were released to the market. Such terminals can store information that an individual saved, for example, call log, where to make contact and address of acquaintances, transmit/receive message and mail, photographs and videos, etc., but there are worries on surreptitious use of other people due to leaking of personal information through loss or theft of these terminals, so our paper aims to realize a system that remotely controls information inside the terminals in this case. The proposed system consists of four functional units: a website provision unit playing a role of interface so that users can remotely control a terminal, a user confirmation unit that performs joiner confirmation information from a system of a mobile communication company joined after a user confirm oneself as

the person oneself, an access management unit that sets access by transmitting an access code for initiating a remote control program if a person is confirmed as a real owner of the terminal, and finally a service execution unit that transmits a remote control service code and an environment setting value for remotely controlling a terminal to the terminal and receives a service completion code from the terminal.

In this paper, we have described the remote control method and architecture for mobile communication terminals. In detail, the remote control system is proposed for the lost handset and the system design is verified through the realization, for protecting the personal information. We have designed the remote control system for the mobile devices step by step, the terminal locking function, the main data transfer capabilities, the deletion and initialization features of personal information, and then applied to the actual realization.

### IV. WORKING

Problem Statement:

This paper is basically an idea to operate through an android mobile and access the data into system only login in functionality. The project consists of accessing the data with the help of website or mobile through android SDK. Mobile data backup is the most up-to-date backup solution for the moment being with the Mobile backup service you won't have to worry about your data security, buy hardware and install software to backup your data. Moreover, the software backup saves.

Design an interactive mobile system that can track a remotely Android mobile and can transfer the data between the whenever you doing the login in android mobile you can transfer the data in website or systems with the an add-on feature. The user can also send and receive SMS through his current mobile from his target mobile. The interactive system facilitates user to have a back up of his call logs, SMS, and contacts on server the system should support following facilities:-

1. New User can register to use application.
2. Registered user needs to login with user id and valid password.
3. After authentication application provides following facilities:

4. Read Contacts from mobile.
5. Read SMS from mobile.
6. Read Logs from mobile
7. Send SMS.
8. Access the Android mobile data in web application

Whenever you lost your mobile you track the mobile location and you getting again and allcontact back are store in webapplication on your system whenever clicking single back button.For this purpose we develop silent software installation and controlling clients remotely accessing the all data in android mobiles.

The access to the mobile phone is given remotely via the web application. For authentication the user id and the password is must while login through the web application. The IMEI number of the mobile phone is the important part of the system, the web application gives access to the specified IMEI number's mobile phone, which is registered. The IP address of the web application is stored in mobile application while application is installed on the mobile phone.

#### MODULES:

##### LOGIN:

In this module it is same as the other social sites, but the new requirement of this module is IMEI number which is unique for mobile phone. User name and password is same on mobile phone as well as web application.

##### CONTACTS:

This module provides our mobile phone contacts to web application. When mobile phone is switched off at that time we can access contact details, which are available on our database.

##### CALL LOGS:

In this module all call logs can be retrieved on web application. We can get information about missed calls and also the details of received calls and dialled calls.

##### SEND REMOTE SMS:

We can also send the remote SMS through web application. This SMS goes through GSM network available on mobile phone.

##### MESSAGES:

The messages in our mobile phone can be visible on web application. Message of inbox, sent box with their details of sender, receiver and time.

##### FILE TRANSFER:

Downloading files present on mobile phone from web application like, text files, image files and pdf files. Android version 2.2.3 i.e. FROYO because this version supports the file transferring so we can use this version for implementation of this application.

#### LOCATION TRACKING:

This module tracks the location of the mobile phone where it is located. Also if our mobile phone is switched off then also we can track the last location of the mobile phone.

The basic idea of that paper simply connection between mobile application and web application connection. We create Android application for mobile phone. Android operating system is used for mobile phones it gives the file access. We have get cross platform feature by using this application. This application work in local area network as well as we can use Wi-Fi network connection.

#### V. PARAMETER

##### a.RELIABILITY:

The system will be designed with reliability as key feature:

- The system is guaranteed of providing the services to user according to his/her login information.
- This system is guaranteed to be reliable with maximum time.

##### b.MAINTAINABILITY:

The system will be developed using the standard software development conventions to help in easy review and redesigning of the system. The system will be backed up by a full fledge documentation of the product which is available online as well as free to download.

##### c.AVAILABILITY:

- The System is available on user demand.

##### d. SUPPORTABILITY:

The system is able to support Wi-Fi/GPRS/3G Network.

#### VI.APPLICATION AND FUTURE SCOPE:

##### APPLICATION:

Design an interactive mobile system that can access Android mobile remotely and can transfer the data whenever you doing the login in Android mobile. You can transfer the data in website or systems with an add-on feature. The user can also

send and receive SMS through his current mobile from his target mobile. The interactive system facilitates user to have a back up of his call logs, SMS, contacts and data on server.

The primary goal of the paper is to access the data remotely with the help of Android Mobile application into the web application. The basic idea is to design and develop Backup Application which allows the user to browse through Mobile data like SMS and contacts and allows them to access his/her data on a remote server. Sending the remote SMS through the web application.

Helps when he/she forgets his/her cell phone somewhere and requires the data present in cell phone. Gives the remote access to cell phone .Allows to access the contacts from anywhere through web application.

#### FUTURE SCOPE:

Our paper have additional scope these are describe following

1. We can access mobile application on the web:we can connect mobile phone by remotely an run the mobile application on web which are stored in the mobile memory.
2. We can call to the person via web by using mobile phone network:we can call the any person on the web by using mobile network.
- 3.Remotely lock the mobile application.
4. And also if the phones battery is getting low we will try to show the information about the battery low.

#### VI. CONCLUSION:

In this paper simply we put our idea of the communication of mobile phone and web application. The mobile operating system is Android and web application based of any operating system like windows. The important part of this paper is that, we can access the mobile phone data on the web .That data includes phonebook, call logs, messages, file downloading, message sending and location tracking.

#### REFERENCES:

- [1] DamianosGavalas and Daphne Economou, University of the Aegean,"Platforms for mobile Applications: Status and Trends" IEEE SOFTWARE,JANUARY/FEBRUARY 2011
- [2] "Development of agent-based, peer-to-peer mobile applications on ANDROID with JADE." The Second

International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies.  
DOI 10.11.09

- [3] Butler, M.; IEEE Pervasive Computing, "Android: Changing the Mobile Landscape" Volume: 10, Issue: 1, Digital Object Identifier: 10.1109/MPRV.2011.1 Publication Year: 2011