REMOTE MOBILE ACCESS USING GSM NETWORK

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Abstract

In the current generation the mobile access is been increased drastically at least one mobile with every single person. If you have forgot your mobile at your home, you feel like you have missed some important part of your body at your home. At this point of time you think it would be better if you could access the mobile remotely. The SMS communication is used for establishing a connection between the phone which is at your home and the remote cell. The remote mobile need not be a smartphone only, it can be any version of mobile. With the help of this application you can retrieve the call details, contacts, the IMEI number, the sim operator, the sim number, turning the data on if it is off or vice versa, turning the wifi on if it is off or vice versa, helps in tracking the location, lock the mobile etc . This can be done by sending a normal message through remote mobile.

Keywords: Android, Remote Mobile, Smartphone, Eclipse.

I. INTRODUCTION

Mobile usage is playing a very important role in day-to-day activities in people's daily life. The current time is known as the Smartphone era. Smartphone's plays popularity in the internet accessing which includes, accessing mails, social networking, mobile shopping, mobile banking, and many other things. Given these features if the problem arises when the cell phone is been theft at the workspace, or in the public places, misplaced at the home, and wants to retrieve the data from the Smartphone.

Remote mobile access helps in such situations. This kind of problem can be deal with the help of remote accessing. It includes locking the phone, wiping off the data, enabling and disabling the mobile data, getting the contact details of the user, turning the cell phone to ringing mode or to the silent mode, retrieving the IMEI number of the cell phone and retrieving the SIM number

This application is developed for the android phones and is used in the following situation.

1. You reached your office and realize that you have forgotten your cell phone at home.

Need to make a call for your important client. No need to worry, with the help of this application, by sending a simple message by your colleague's phone of any model you can retrieve your contacts details from your cell phone which you have left at your home. The SMS command helps you to find your required number by sending back a simple message.

II. LITERATURE SURVEY

The role of a business women in world today have change dramatically than it use to in mid century. Business woman have changed herself and given herself a new identity in the new world and is standing shoulder to shoulder with a man in every aspect of life be it professional or personal. There is a perception that the Information Technology and Information Technology Enabled Services (IT/IT-ES) sectors have apparently provided a more level playing field in terms of employment opportunities without any gender bias. This claim seems to be borne out by the prediction

that the percentage of women in such industries is set to rise dramatically in the coming years. However, there are still some glaring anomalies as viz., the representation of women in upper management is significantly disproportionate to the overall percentages [3].

By wireless control of electrical appliances used in home/office, we have flexibility to make our living hood a comfortable. The web – controlled embedded system using mobile phone gives tremendous freedom to control devices during movements or away from site. The internet access using 3G technology gives a faster processing than GPRS. Therefore, most of the currently available mobile phones have 3G features. This system is a economical setup which can be afforded by majority. The system can be made efficient by modularizing each and every component of the system hence ensuring that it can be integrated with a varied range of devices. The basic vision of the system is to provide a convenient & secure system to the user, which would aid the high degree of mobility & control; we aim to achieve nowadays [4].

Consider when a woman is travelling in her car suddenly she remembers that the washing machine of her house is ON, where it was supposed to be set OFF, but unfortunately not either the machine should be OFF manually by going back to home or by home security. But by using the GSM based mobile phone one can be controlled the appliances at any point of time and anywhere easily in an automated manner. In the existing system most of the time it been for the hardware appliances, or the combination of both software and hardware appliances.

In existing system a man controllers all the electric appliances remotely. The person need not do the thing manually. He can control almost all the electrical appliances easily; it can be anything from the home appliances like air conditioner, light, dishwasher, security system through wireless remote controller. This feature of controlling the home appliances has made a huge impact in day-to-day life. The people cannot access the operation directly by the

home appliances. The smart phones and the global system mobile communications have been introduced to reduce the distance communication at the remote area.

Proposed System:
To overcome the features of the existing system this application is been developed, for providing all the features into a single application for the Smartphone users. Since this application combines all the features into a single application the memory of the RAM is been saved. This application servers the different types of prospective.

Normal prospective: Suppose if you have left your cell phone at your home, and you want to access some important contact from your phonebook urgently. Due to some security issues you can't even tell your parents to access your phone, in such situation yourself can directly access your phonebook by sending a simple message by your friends' cell phone. This application sends back you a message with the required contact number.

Security prospective: Suppose you have lost your cell phone and you want to track your cell phone with the sim number, access the phones location and IMEI number is possible by using this application easily.

The proposed system helps in accessing the various features and to retrieve the data remotely.

III. IMPLEMENTATION
An authentication page(Fig 1) of the application is used for entering the secret key and the other details of the user like 2 alternate numbers and email. This is used for establishing the connection between two mobiles, by providing an secured secret key. The next page after authentication which is used for changing the specified pin and also can change the password is Fig 2 Change pin. Then we get confirm pin page and accepting the changed pin (Fig 3) page which is used as the page of remote phone's page for accepting the changed pin by the smartphone which was previously mentioned.
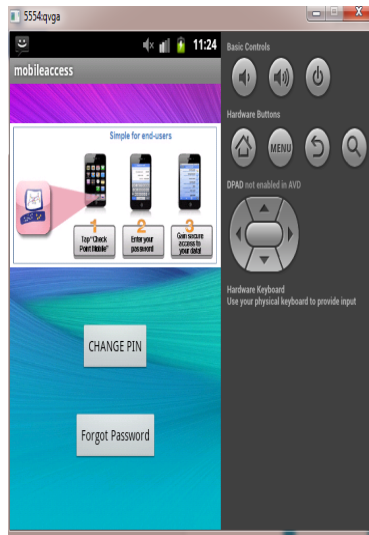
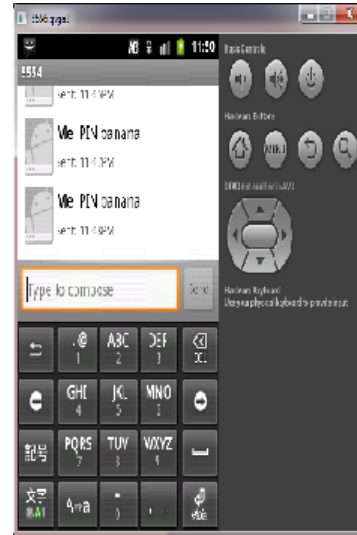**Fig 1: Authentication page**   **Fig 2: Change pin**   **Fig 3: Accepting the changed pin**

Fig 4 shows the sending a message for turning on the wifi of the misplaced cell and then wifi gets on. Now user is ready to sending a message to access the call details and accepting the request and produces the estimated details of the call. User can remotely turn the silent mode cell to the ringing mode and also able to send a message to the mobile for getting the sim operator as shown in Fig 5 below.
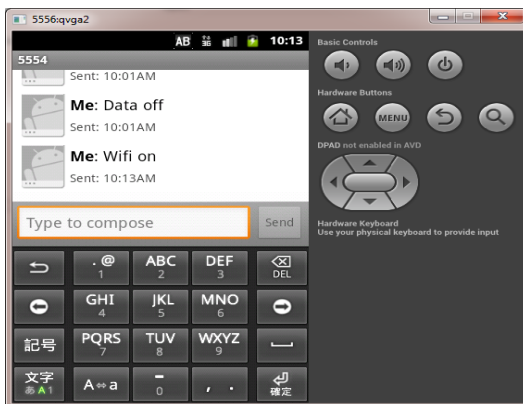

Fig 4: Message to turn Wi-Fi on   **Fig 5: Page accepting message for retrieving sim operator**

IV. CONCLUSION

In the current generation the smart phones are playing a most vital role in the people life all the work is been done through phones, in case if the phone is left at the home, not to worry .The proposed model facilitates accessing of the device from a remote location.The system has been designed in such a way that the mobile terminal used for accessing a remote device need not be an android device. By using this application, we can retrieve the data stored in a smartphone. We can retrieve Contacts (Fetching contact number from your address book), Call Logs (Checking missed calls/received calls/dialed numbers), IMEI Number, Phone Profile (Changing profile mode to ringer or silent mode), SIM Number (Retrieving SIM Number), SMS Logs (Checking SMS's receiver on your phone), SIMOP, location of the device.

V .FUTURE ENHANCEMENT

The remote connection through SMS can be replaced by GPRS. General packet radio service (GPRS) is a packet oriented mobile data service on the 2G and 3Gcellular communication system's global system for mobile communications (GSM).If SMS over GPRS is used, an SMS transmission speed of about 30 SMS messages per minute may be achieved. This is much faster than using the ordinary SMS over GSM, whose SMS transmission speed is about 6 to 10 SMS messages per minute. The

screen capturing of remote device can be incorporated so that the exact display can be accessed.

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