MOBILE CONTROL SYSTEM THROUGH SMS

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Abstract : Mobile technology is widely used in all classes of society. It is the most effective way of communication. Nowadays phones are used worldwide and provide many applications which were earlier provided only by desktops or laptops. These smart phones have brought a big change in the technical field. The most popular design earlier used is VNC(Virtual Networking Computing) but here we are using more generalized architecture which is applicable for android operating systems. And here we are making an app for Android mobile phone which must be installed on our phone. Here we are Provide various solution for different problem like, if we have forgotten our android phone at home, and also in case if we have lost the phone, and in case you have misplaced your phone at home and had kept it in silent mode then ringing the phone to find it, is not an option. Remotely administer your android phone: CONTACT – Fetch the contact number of a person from the address book. MESSAGES–Retrieve the text messages received on your phone.

Index Terms – Control System, Mobile Device, Broadcast Receiver, Save Time, Portability, SMS, Retrieve Data, Synchronization, Transparency, Technological Revolution.

I. INTRODUCTION

1.1 Purpose: -

If you have forgotten your Cell Phone at home and you need to call a person urgently whose contact number is not available at that instant. In that case you have to call home and ask someone to search for that contact and then resend it back to you. It takes your lot of time. Instead of doing this tedious process one can send an SMS from someone’s cell to his/her own mobile in a predefined syntax.

E.g.: PASSWORD GET CONTACT (Contact name/initial)

The contact’s name which you wish to get should write the way it is saved in his/her contact list. If one wants multiple contacts, then send the initial of the contact name along with the syntax and the application will return all the contacts starting from that initial. Also, unread SMS can be retrieved using this application.

E.g.: PASSWORD GET SMS

1.2 Future Scope: -

SMS based remote control for general purpose is beneficial for the human generation, because mobile is most recently used technology nowadays. The SMS based remote control for home appliances is easy to implement the system that ON/OFF the electrical device through remotely via SMS or it handled more and more electrical devices which are used in home. In simple automation system where the internet facilities and even PC are not provided, one can use mobile phone-based control system which is simple and cost-effective.

Alternatively for such requirements landline phone with extension card could also be select for the system. The application can be able to send other information such as email ID, address and other personal details via message using Multimedia service. One will not need to access internet to get the personal information.

II. PROBLEM STATEMENT

People always want to be in control. They need real-time information whenever they need. With the advance of technology, mobile phone is no longer a luxuries item. It’s easily available and possess by most population of our country. The popular communication technology used today is SMS, MMS, GPRS, and 3G. Among these, SMS is most widely use. SMS is commonly used for the purpose of data retrieval & enquiry.

Based on a query SMS, the result will be looked up from a database and returned to the sender via SMS. The project will discuss a solution to provide data recovery (in our case it is CONTACTS) from android based mobile devices from a remote location. The project is based on Android operating system. The main reason for choosing this platform is it’s free and open-source nature. Also, android is adopted by a very large community. Also, android is not limited to phones now a days, it is also used in a DVR, handheld GPS, an MP3 player etc.
### III. LITERATURE SURVEY

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<tr>
<th>SR NO.</th>
<th>PAPER NAME</th>
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<tr>
<td>1.</td>
<td>Mobile Control System Through SMS.</td>
<td>Akshay Jadhav, Avinash Chaudhary,</td>
<td>SMS, Android Phone, Contact, Mobile Technology.</td>
<td>1. It is highly portable 2. It is robust and also consumes less time 3. To retrieve the contact from mobile phone one can send message.</td>
<td>In case we didn’t forget our phone then no needed of using these systems.</td>
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<td>2.</td>
<td>SMS Based Remote Mobile Phone Data Access System.</td>
<td>Saraswathi, Shanthi, Rashika Ponmani.</td>
<td>Short Message Service, General Packet Radio Service, Global Positioning Service, Multimedia Message Service, Global System For Mobile Communications Remote Control, Text Message</td>
<td>The application can be able to send other information such as Email ID, Address and other personal details via message using multimedia service.</td>
<td>If there is no balance in the remote phone, then the process cannot be accomplished.</td>
</tr>
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<td>3.</td>
<td>I Mobile: Remote Access For Android Phones.</td>
<td>Prof. Jayvant H. Devare, Sonali D. Kotkar, Dipali Nilakh.</td>
<td>Mobile, IP Address, GSM, AES.</td>
<td>If the phone’s battery is getting low, we will try to show the information about the battery low. Remotely lock the mobile application. The system is able to support Wi-Fi/GPRS/3G network.</td>
<td>It is highly expensive, it is not that much accessible &amp; portable.</td>
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<td>4.</td>
<td>The Research Of Mobile Distance Learning System Based On Mobile Short Message Platform</td>
<td>Pawan D. Mishra, Harshwardhan N. Deshpande.</td>
<td>Short Message Service(SMS), Speech To Text Conversion (STT), Speech Acquisition, Hidden Markov Model (HMM) HMM-Based Recognition</td>
<td>These systems analyse the person’s specific voice and use it to fine-tune the recognition of that person’s speech, resulting in more accurate transcription. To identify the words which is in the spoken language and translation of it into the readable form that is in the form of text.</td>
<td>Sometimes voice cannot be recognized due to some dust on sensor &amp; system failure.</td>
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<td>5.</td>
<td>A Smart Texting System For Android Mobile Users</td>
<td>Pawan D. Mishra, Harshwardhan N. Deshpande.</td>
<td>Short Message Service(SMS), Speech To Text Conversion(STT), Speech Acquisition, Hidden Markov Model (HMM), HMM-Based Recognition</td>
<td>1. These systems analyze the person’s specific voice and use it to fine-tune the recognition of that person’s speech, resulting in more accurate transcription. 2. To identify the words which is in the spoken language and translation of it into the readable form that is in the form of text.</td>
<td>Sometimes voice cannot be recognized due to some dust on sensor &amp; system failure.</td>
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IV. REQUIREMENT ANALYSIS

4.1 Non-functional Requirements:

The non-functional requirements are as follows:

- **Convenience** – SMS technology is easy to use and learn and can be accessed easily when needed.
- **Accessibility** – Instructions can be sent over SMS from any location provided there is the existence of an active GSM network or control from anywhere in world if cellular coverage is available.
- **Portability** – An SMS can be sent from any GSM phone that supports basic service of messaging. Considering the fact that most GSM phones support SMS, the system is therefore highly portable.
- **Saves Time** – An SMS system saves time as the user is not required to gain access to an internet connection.
- **Cheaper** – SMS services are generally cheap and are sometimes provided for free (at least for certain periods) by service providers. Furthermore, most service providers do not charge users for receiving SMS.

4.2 Hardware Requirements:

- Android Base Smart Phone
- RAM: 256 MB

4.3 Software Requirements:

- Minimum Android Version 4.0
- Android SDK Version 27
- Android Studio
- JAVA

V. METHODOLOGY

5.1 Data Flow Diagram:

5.1.1 DFD Level 0:

![Figure 5.1.1 DFD Level 0](image)

5.1.2 DFD Level 1:

![Figure 5.1.2 DFD Level 1](image)
5.2 Activity Diagrams:

![Activity Diagram](image)

Figure 5.2 Activity Diagram

5.3 Sequence Diagram:

![Sequence Diagram](image)

Figure 5.3 Sequence Diagram
5.4 Use Case Diagram:

![Use Case Diagram](image)

Fig 5.4 Use Case Diagram

5.5 Algorithm:-

5.5.1 Algorithm MCS-SMS:

Step 1: Start Service
Step 2: Application Receive New SMS
Step 3: Proper Syntax Check
Step 4: If SMS Syntax is proper go to step 5
   else go to step 9
Step 5: Desired contact will be Searched
Step 6: If contact is not found go to step 7
   else if contact is found go to step 8
Step 7: Proper message will be sent via SMS and go to step 9
Step 8: Contact will be sent by SMS
Step 9: Stop

VI. ADVANTAGES & DISADVANTAGES

6.1 Advantages:

✓ It is highly portable & convenient to use.
✓ This system is robust and also consumes less time which reduces man efforts.
✓ To retrieve the contacts & SMS from mobile phone one can send message.
✓ It is pocket friendly cheaper in cost & also beneficial to humans.
✓ This system is more reliable & will be commendable to all.

6.2 Disadvantages:

✓ In case if we didn’t forget our phone then no needed of using these systems.
✓ Power failure or system failure can occur due to natural disasters.
✓ This system can’t assist or reluctant to understand by senior citizens.

VII. APPLICATIONS

✓ This system is Assist and provide support in order to fulfill the needs of Students or Office employees with hectic lifestyle.
- If we don’t have mobile with us & want to retrieve unread text messages Urgently, we can get it by using our Application.

- We can get the details of missed calls from any location and also can check our recent call list.

- In case we scattered our mobile somewhere in the house and its on silent mode we can use our Application to turn the mobile from silent to general mode.

- If we want to get someone’s contact urgently but our mobile is not with us we can simply & conveniently get the contact number.

- If the Mobile is stolen or vanished somewhere we can easily track the location of our Mobile.

VIII. RESULTS

8.1 Star/Stop Service

8.2 Password Settings

8.3 Assistance
IX. CONCLUSION

If you’ve forgotten your Android phone somewhere and need to retrieve important phone numbers from your contact list immediately. The best part of the proposed system is that it has a very low Memory Footprinted. It is very light on your phone’s resources. The proposed system allows you to search for phone numbers as well as unread messages stored on your cell phone REMOTELY with the help of a simple Text message. This app is small, simple and very easy to use.
SMS based remote control for general purpose is beneficial for the human generation, because mobile is most recently used technology nowadays. The SMS based remote control for home appliances is easy to implement the system that ON/OFF the electrical device through remotely via SMS or it handled more and more electrical devices which are used in home. In simple automation system where the internet facilities and even PC are not provided, one can use mobile phone-based control system which is simple and cost-effective. Alternatively for such requirements landline phone with extension card could also be select for the system. The application can be able to send other information such as email ID, address and other personal details via message using Multimedia service. One will not need to access internet to get the personal information.

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REFERENCES


