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Remote File Retrieving Through an SMS

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Abstract - *SMS (Short Message services) has made a impact on the way we communicate. Instead of communicating over the phone using our voice, people rather prefer SMS not only for messaging but also for information. This project proposes a method of building an generic application which can be used to search a file on remote desktop and mail it to user end. Mobile user sends the information through a SMS to a mobile gateway that forwards it to generic application. Given by the user-provided information, the generic application automatically searches the file on remote machine and mails it to the user id. This paper is based on the concept of searching a file on remote machine by just sending a Simple SMS to the SMS900 modem connected to machine*

Key Words: **SMS; Parser; FTP**

1. INTRODUCTION

The growth of the mobile phone market has motivated the design of new forms and unique features of mobile information services. With the growth of Facebook, twitter and other social messaging networks, in the past few years we have witnessed a growing era of Short-Messaging Service (SMS) based applications. An SMS based services are also increasingly common in developing regions of India. Despite of the increasing power of mobile devices with the advance features of smart phones, a significant fraction of mobile in developing regions are still Simple and low cost devices with limited processing and communication capabilities into it. Due to a combination of social and economic factors both voice and SMS will continue to remain the primary communication available for the population in developing regions. SMS-based search is a rapidly growing into global market with over 31 million subscribers as of July 2013. An SMS message is constrained of 140 bytes which drastically limits the amount of information in a search factor. SMS-based search is also non interactive process due to the search response time, an existing SMS-based search engines take on the order of tens seconds to several minutes per response. Even without the 140-byte of SMS size constraint, tailoring the web search to mobile devices is a challenging problem due to the form factor and low bandwidth o . Like desktop search the users on mobile devices does not have the luxury of iteratively refining search queries through pages of results for the information they desire. In this project, we search a file on remote and we get that file on the email.

2. PURPOSE OF PROECT

The main purpose of the project is to search a file on remote machine by just a Simple SMS and get that file mail it to user. The application will be a desktop application where it will check for all new incoming SMS. The application will first of all check whether the mobile number through which SMS has been sent by the authorized to search the file or not. If not then the specified application sends back an acknowledgement of saying that user is not authorized to search the file. If the user is authorized then the application will start the file search and if the file is found it will email the user .While you are sending SMS user has to send the option file name and email id. Apart from file search and emailing the file the application also support uploading and downloading the file from any of the FTP server provided the details of the FTP server that is known.

3. EXISTING SYSTEM

Existing System most of the user files are scattered over the multiple machines. if user forget to take the required file in your pen drive or email the file he is left with no other option rather than calling home or respective location and explaining the person the directory of file and mail the file. If the person is not computer educated or does not know how to operate and handle the computer and internet than the situation becomes more and more difficult. In this case the user may face issues regard as he might not get the file. Now to overcome this problem the developers have come up with the app which will remotely connect to your pc and transfer the file. But these apps are limited to your Smart Phones and they require active internet on their phones. Now if a user does not have a smart phone then he will not be able to make use of all specified application.

4. PROPOSED SYSTEM

The solution proposed for this is to search the file on remote machine using SMS. There are many apps available for these purpose but apps are limited to Smart Phones and should have an internet connection on both the remote machine and smart phone. This is the main drawback where even if users possess a Smart Phone but no active internet connection he will not be able to take the advantage of the app. To overcome this problem of Smart Phone and active internet connection, our project uses a SMS as a medium to search a

file on remote machine and if found, and then mails the file to the user. In this case an active internet connection is required only at the remote machine where the client is installed. The requirement of this project is a client must be installed on the Remote machine for receiving an SMS and searching file and sending the file. User need to send SMS i. The format will include the name of the file to be searched user email address to where the file if found has to be emailed. On receiving the SMS, application will check the format verify the SMS to get all the required details. The application then will mail the file to user.

5. SCOPE OF THE PROJECT

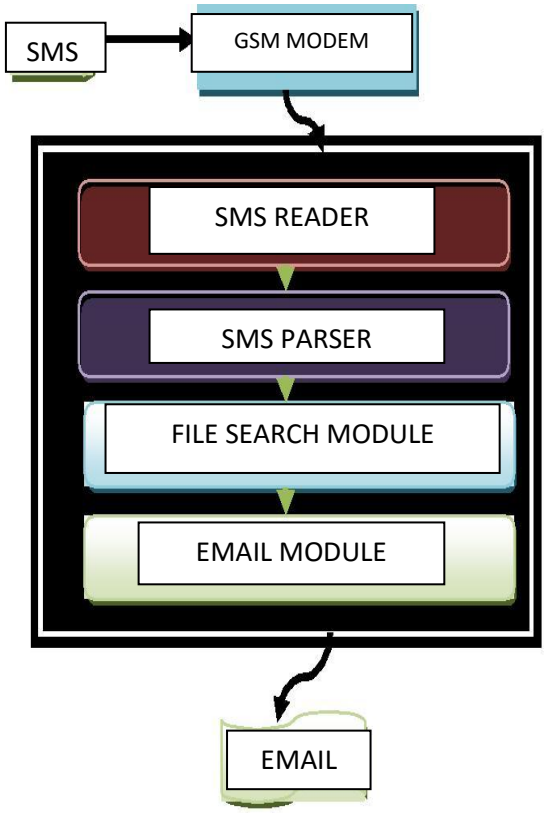

Fig.1- System Architecture

1.1. SMS Module

Short Message Service (SMS) is just a text messaging service component of phone. It uses standardized certain communications protocols to allow fixed line or phone to exchange the short text messages. Messages are sent to the short message service center (SMSC), which provides unique store and forward mechanism. It attempts to send the messages to the SMSC's recipients. If the recipient is not reachable then the SMSC queues the message for later. Some SMSCs also provide a forward and forget function where transmission is tried for once. Both mobile terminated (MT, for messages sent to a mobile) and mobile origin (MO for those sent from the mobile) operations are supported. Message delivery is best effort so there are no such guarantees that a message will actually be delivered to its recipient, then but delay or loss of a message is uncommon, mostly affecting less than 5 percent of messages. Some providers allow their users to request delivery reports e via the SMS settings of most modern phones. However, the exact confirmation varies from reaching the network, to being queued for sending the message, to sent, to receiving a confirmation of receipt from the targeted device, and users are often not informed of the specific type of success reported. SMS is a communication protocol in which each and every SMS message is considered entirely independent of other messages. Enterprise applications uses an SMS as a data bearer require that session management to be maintained external to that protocol.

1.2. SMS Parser

Parsing is a process of analyzing string of symbols, either in the natural language or in the computer languages, according to the rules of the grammar. A Parser is a software function that takes input data and builds a data structure that are often some kind of parse tree an abstract syntax tree or any of the hierarchical structure. Here it is used for separating the different components of the SMS received by the "SIM900" modem. Different components present that is the file name the file location and senders mail id etc. e.g. is as shown below.

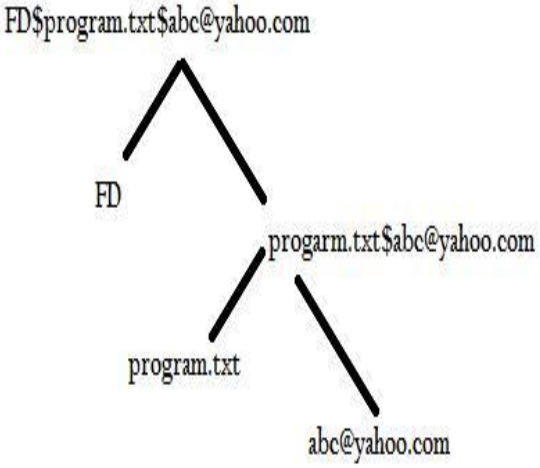

Fig. 2- SMS Parser

1.3. FTP Module

File Transfer Protocol (FTP) is a standard network protocol used for transferring files from one host to another host over the TCP based network e.g.:-internet. Here in this project it has been used for uploading and downloading the files present on the specified FTP Server to do the communication.

1.4. Mail Server

The Internet message handling services (MHS) i.e. message transfer agent or the mail transfer agent (MTA) or mail relay is software that transfers the electronic mail messages from one computer. A MTA consists both the client and server portions of the Simple Mail Transfer Protocol. A mail server is the computer that serves as a post office for email. Email exchanged across the networks is passed between mail servers that run the designed software. This software is built around and agreed upon the standardized protocols for handling the email messages and the desired graphics they might contain. Here its job is to do the required mailing activities.

6. FEATURES

- File is searched through an SMS
- File is emailed through an SMS
- Automatically file is searched
- It takes the normal SMS charges
- It does not require any smart phones
- No internet connections are required

7. LIMITATIONS

- Machine should on 24/7
- Power should continuously supplied to GSM modem
- Machine should have internet connection to send email
- GSM modem should have working SIM card
- SIM card inserted should have balance and network

8. CONCLUSIONS

In this project the concept of searching a particular file on a remote machine through SMS is defined. Each User can search any kind of file and get it mailed on the desired mail id. The specific requirement of this project is that the application should be installed on remote machine where the file needs to be searched and internet connection should be available for getting the required file mailed or uploading and downloading to the FTP server. In the initial phase of the project, Remote File retrieving through an SMS will include searching, uploading and downloading of one file at a time. Future release of this application will also allow multiple files to be searched, uploaded and downloaded

9. ACKNOWLEDGEMENT

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