

GSM Based Email Sender: Through Non GPRS Mobile via SMS

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Abstract- Email is one of the mostly used utility of Internet for communication. A person can communicate with any other person with email in seconds. Also various important documents, images, scanned documents etc. can be sends as attachments. Emails can be sent using a Computer or Mobile The firm requirement to send Email from mobile is that it requires GPRS activation on Computer or Mobile. Naturally everyone cannot afford GPRS to be activated on their mobile device. Also email with attachments with a normal mobile device is not possible. In this paper we explore the viability and present our system implementation to allow registered users to send email with their non-GPRS Mobile via SMS. Also Attachments can be sent with Email. That too will be sent from non-GPRS mobile.

Index Terms- Attachment, Email, GPRS, GSM, non-GPRS, SMS

I. INTRODUCTION

Text messaging is one of the most utilized forms of electronic communication. Cheap phones with limited capabilities are often restricted to voice calls and SMS. Short Message Service, or text messaging is a major communication system worldwide; more than 2 billion mobile messages are sent. Text messaging is utilized in almost every field. It can be also be utilized in sending Emails and with modifications for sending Emails with attachments. Our effort in this paper is to make Email facility available through SMS. We developed a text messaging system for processing incoming SMS as request for sending email from user, processing SMS, authenticating sender's mobile Number against the database, retrieving documents information from database that are to be sent as an attachment and sending them as Email to the user email-Id specified in SMS. The usability of such a system is likely to be very high as the users only need to know the mobile number of the server. There is no need to obtain, install and learn new software. Moreover sending SMS is cheap and reliable.

II. SYSTEM IMPLEMENTATION

This section focuses on the implementation of GSM Based Email Sender that is currently under development. This actual application consists of the following components:

1) A web front-end that allows USER to signup, login and update his/her profile as well as uploads documents that in

future can be sent as attachments. Also users in the role of an administrator can allow or disallow any Users from using this facility. Field.

- 2) A database which stores the user signup and profile information as well as information of the various types of documents that are uploaded by various registered users.
- 3) A SMS processor that is capable of sending and receiving SMS to and from users.

A. SMS PROCESSING:

This module is used to process the request coming in the form of SMS for sending Email from registered non-GPRS mobile. It checks the SMS format, split it into various components and validates against the validation module testing whether it is from registered users. Also verifies the document IDs received with SMS for sending those documents as an attachment with the Email.

B. Email ID Validation And Email Sender:

This module is used for validation purpose It verifies Email-Id for its correctness and then using an account forwards the message or the message along with attachments as Email to the users from senders from their non-GPRS mobile. Any Email service provider can be used for sending email. We have used Google account for this purpose. It requires name of Email server and port number.

C. DOCUMENT UPLOADER:

This module is used for validation purpose It verifies Email-Id for its correctness and then using an account forwards the message or the message along with attachments as Email to the users from senders from their non-GPRS mobile. Any Email service provider can be used for sending email. We have used Google account for this purpose. It requires name of Email server and port number.

D. SIGNUP MODULE:

It is a part of the web front end that the new users can use to register on the web site to avail the facility of sending Email from their registered Mobile Numbers of the non-GPRS mobile Device. The facility of sending Email or Email with attachments

is only made available to the registered users. Registration is made compulsory.

E. AUTHENTICATION:

It is a part of the web front end that is used to authenticate the users. After successful login only, the registered users will be able to update their personal profile and upload the documents on the web site.

F. DATABASE MODULE:

The system is being developed as Three-Tier architecture. This component is responsible for implementing the data layer. It is used to interact with the database. This simplifies maintenance of software. With minor changes, the Back End can be changed.

III. FIGURE

Figure below describes the working of the system being developed. It depicts that the user interested in sending Email from his/her non-GPRS mobile sends as SMS the message to be sent, the receiver's email-ID along with the optional document-Id that is to be attached with Email to the modem attached to the server which is capable of sending and receiving SMS. The server running Internet forwards the Email to the recipient.

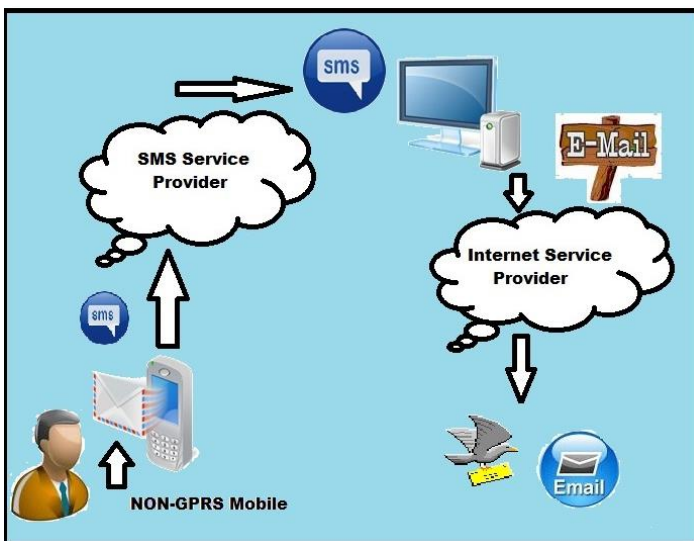


Fig 1.0 Architecture of GSM Based Email Sender

IV. CONCLUSION

The system being developed allows the registered users to send Email or Emails with attachments from their non-GPRS mobile device. The system can serve as a Helpline for the users. The

service being made available can be offered as either free or it can be paid that depends on the organization that will like to implement the system. The limitation of the system comes from the fact that the size of characters is limited to 160 characters. However this can be overcome by sending multiple SMS.

Advantages:

1. Registered Users with non-GPRS mobile can use the web site for sending Emails with or without attachments.
2. Registered users can upload their documents. In future, the users can download the same from the site in case of loss of documents.
3. It prevents anonymous users or unregistered users from using the service.

Disadvantage:

1. Storage issues with increased users and with more uploaded contents.
2. System crashes if server running the application is down.

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