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A novice approach for Transfering text files

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Abstract—This paper elaborates that how to send text files without internet or Bluetooth because in this modern era where everything is becoming digital, wireless and handy like applications being developed for mobile phones where one can deposit, credit, debit, tickets, clips(audio, video) etc.

In the same scenario this paper focuses its limelight on the mms based technology where one can send text files using short messaging services technology by attaching text files in the normal sms and send it to remote area resident user, just like one can attach files in Emails.

Sometimes it happens to most of the people that the balance or available balance in the mobile phone for internet got finished when he or she were in great need of it such as when someone want to send his admit card, guidelines, some personal text, application etc. Even when organizations, doctors, officers, educational sectors etc want to send their guidelines to those areas where internet connection is not feasible like villages or desert areas but only mobile networks could work then by using this application their problem can be sorted out at ease. Example in education sector boards can send guidelines to the isolated areas where they can't contact immediately means that they can't send notification, guidelines about the boards and examination. At that kind of circumstances this project can proved to be a boon for the mankind. With this low-cost application a user can send attached file like .txt, .doc etc. With maximum characters as compared to normal sms. This paper proposes a sms application through which a user can attach a file from the SD-Card (retrieve) just like e-mail and send it to the recipient to the remote area.

And nominal charge will be deducted from the user who sends data to the recipient. (Abstract**)**

Keywords—Confining;Contact;Send;Attach;Sd-Card;Close (key words)

INTRODUCTION

In this hectic schedule people wants everything on time whether to reach somewhere or communication, for communication they use internet or mobile. Best source in internet to transfer data or text file is e-mail where one can send multiple file to the recipient of different extensions at the same time. And this facilities are also provided to the Mobile phones too the same thing which we can do in computers.

Even in mobile we can send audio, video slides etc. Too means sending data becomes easy via mms (multi media services).in the same manner we can also send text file with confined format to the recipient without using internet or Bluetooth using this application where charges will be deducted as per service providers.

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RELATED WORK

Sms (short messaging service) is a popular service for transferring and exchange of short messages between mobile phones. Mms (multimedia messaging service) is another technology in mobile phones for creating, sending, receiving and storing messages that include text, images, audio, video clips.

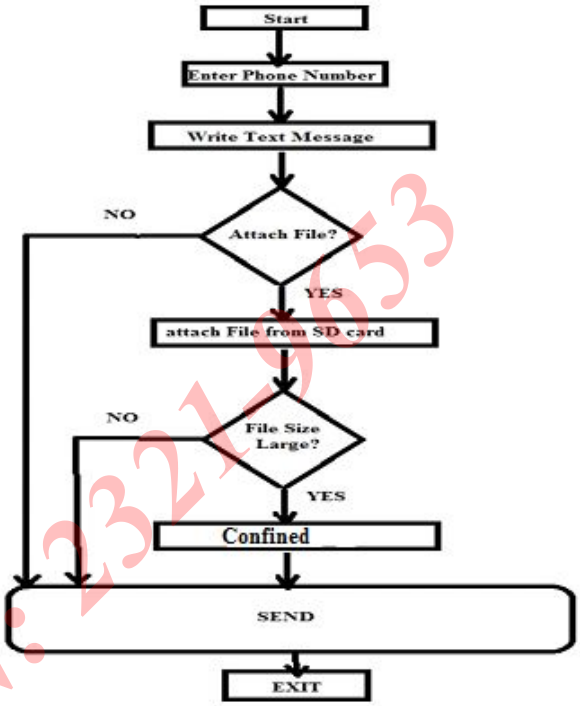
The growth of information and communication technology (ict) , including mobile technology such as hand phone, pda, notebook etc. Is becoming faster day by day. These technologies are supported by many low-cost facilities such as, calling capabilities, caller id, sms, mms, playing games, browsing internet etc. These low-cost technologies can be used to develop a mobile application. Many application have already been developed by using these facilities.

This paper proposes a sms application through which a user can attach a file from the sd-card (retrieve) just like e-mail and send it to the recipient to the remote area. And that file will be confined using arithmetic encoding. Then the incoming message should be deconfined on the receiver end in order to get the complete message.

In the current scenario mms and sms has many features through which one can send messages 160 words or 140 bytes of size per message and it can reach out its limit by multiple of 140 bytes up to 7 long message, whenever sender sends multiple messages at the same time. And if sender wants to send long file than he/she uses mms, in which mobile phone user sends formatted text messages theoretically of any length plus graphics, images, audio, video etc. Whereas in mms sender need to attach file just like we do in e-mail.

In mms it works on the paradigm of e-mail. Mms is created based on stored-and-forward type of information delivery. In the similar manner sms application user sends short and plain text messages to other mobile users.

SMS flowchart



EXISTING SMS WORKING

Sms is the transfer and exchange of short text messages between two mobile phones. The sms is defined based on gsm digital mobile phones. According to gsm03.40 standard [1] the length of the exchanged message is 160 characters at most, which are saved in 140 bytes depending on how the information is saved according to the standards.

Currently in sms user can send only 160 characters or 140 bytes in single message and it'll be multiple of it if sender sends sms more than one. But sms doesn't provide the facility which mms possess like only short messages are allowed not long one, images, etc.

SMS application SENDER:

To overcome the problem of sending short messages to the recipient one can send long messages with attachments of confined file in it. All he has to do is just attach the file by taping it on attach button and retrieve the file from the sd-card where he has saved the file from his mobile phone. The file will automatically be confined and retrieved only when user wants to attach it and want to send it to the recipient.

SMS application RECEIVER:

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- Now once the receives the message the user has to just open it up and it'll automatically stored into the SD-Card.
- And if the receiver wants to send the same message to other recipient (third party) then its mandatory that other user must have this application installed in his mobile phone in order to deconfined the incoming file into his SD-card.
- It's safe to attach file which avoid intrusion of the other person.

Confining:

The attached file which could be .txt, .doc etc. Will be confined through which a user can send much greater messages as compared to the current sms facility.

It means that now user can send multiple characters instead of short messages and there is no need to have internet connection in the mobile phone to send attached file.

The technique used for confining is "arithmetic encoding" which is used to optimize the maximum character capacity of sms body every character in sms is mostly encoded in 7 bit and maximum capacity of one sms is only 1120 bit. This is a confining mechanism that works by converting a data message to a real code number between 0 and 1.

- It requires high precision and effective encoder-decoder to calculate and represents its code number(confined data).
- Very limited data space like SMS, the need of additional memory space to save arithmetic coding probability is inefficient.

Framework of SMS application:

The layout of the proposed paper is like this:

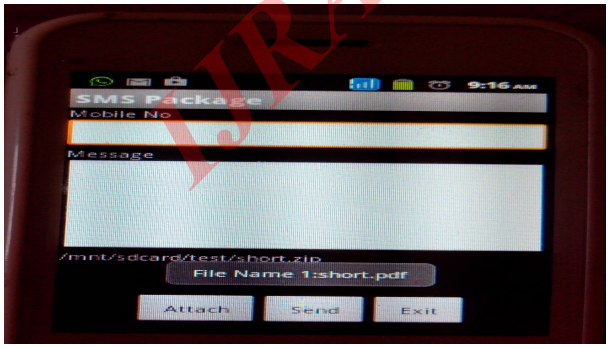


Fig 1: Layout of the successful attachment of file.

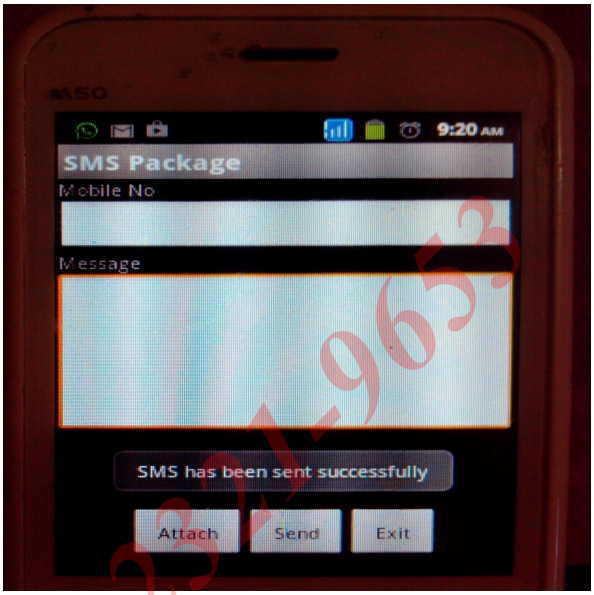


Fig 2: Layout of successful file transfer.

This layout is been developed for android os and has been tested in the inbuilt feature of eclipse called "emulator" which is used to work in an environment like a mobile phone for the developer. Means this application has been created for android os and data is been tested programmatically because service providers doesn't provide the facility to send attach file via sms.

FUTURE WORK:

Operating Systems Compatibility:

In order to send sms for this application one need to have android operating system but for future work we are working on other operating systems also like Symbian, Microsoft through which the sent sms could be viewed at ease and without any problem.

2) Will try to make our own SMS protocol through which we can send our required application at any platform.

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ACKNOWLEDGMENT

In this paper we proposed that sending .txt, .doc etc types of files in confined form via sms could be boon for the world because one could send files even when there is shortage of internet balance, government could send their guide lines over sms to their employees, doctors could send guidelines to the catastrophic area, remote areas like villages etc. and layman who don't know how to use computer could easily send file through this application.

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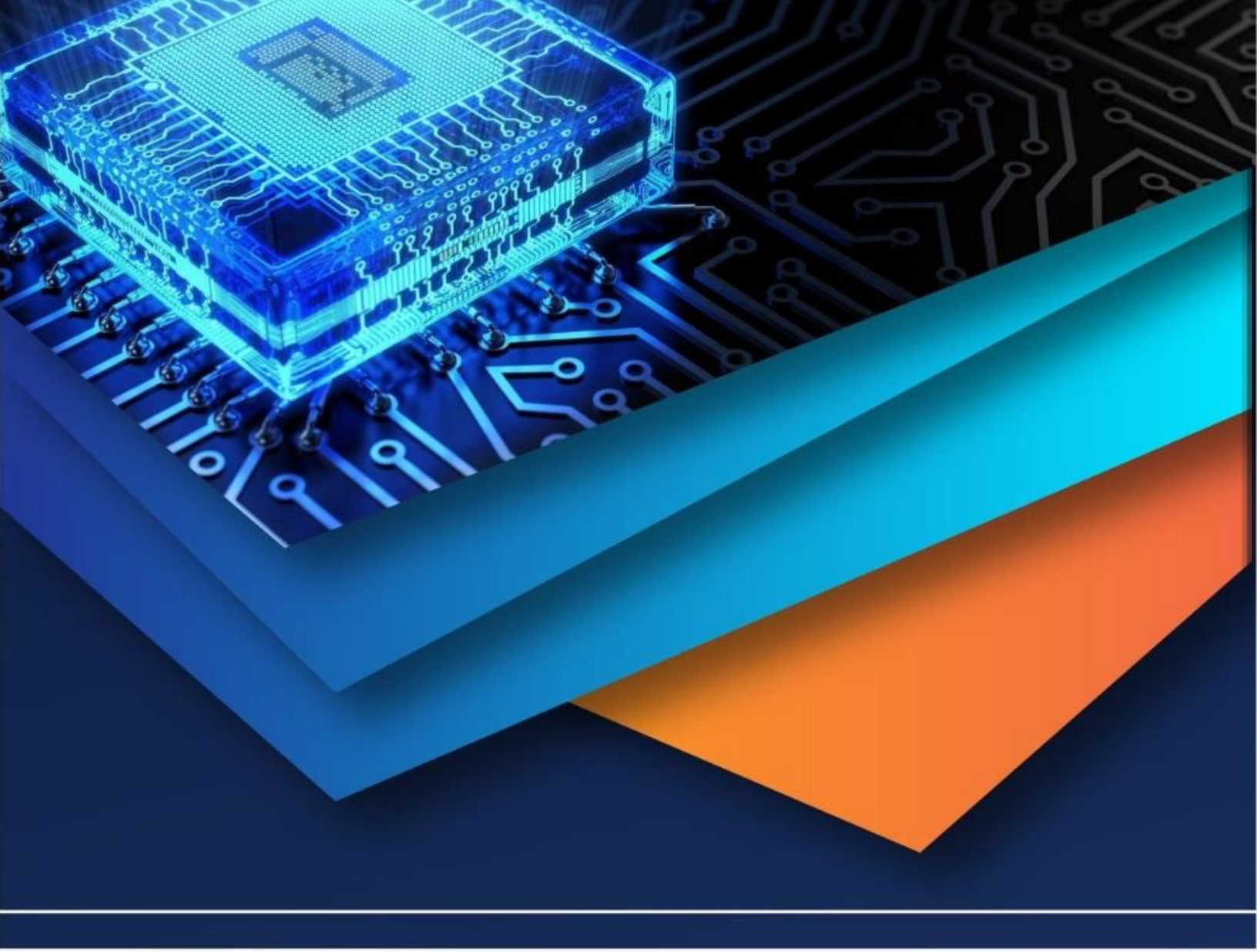
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