VOICE BASED EMAIL APPLICATION FOR VISUALLY IMPAIRED PEOPLE

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KEYWORDS:

HELLO (speech password), COMPOSE MAIL, NAME, INBOX.

INTRODUCTION:

Internet is considered as a major store house of information in today's world. No single work can be done without the help of it. It has even become one of the de facto methods used in communication. And, out of all methods available, email is one of the most common forms of communication, especially in the business world. However, not all people can use the internet. This is because in order to access the internet you would need to know what is written on the screen. If that is not visible it is of no use. This makes internet a completely useless technology for the visually impaired people. Even the screen readers that are available currently such as TTS and ASR, do not provide full efficiency to the visually challenged people, so as to use the internet. As nearly 285 million people worldwide are estimated visually impaired, it become necessary to make internet facilities for communication usable for them also. Therefore, we have come up with this project in which we will be developing a voice based email system which will aid the visually impaired people, who are naive to computer systems to use email facilities in a hassle free manner. The users of this system need not have any basic information, regarding keyboard shortcuts or where the keys are located on the phone.

OBJECTIVES:

This application proposes an android application, designed specifically for visually impaired people. This application provides a voice based mailing service where they could read and send mail on their own, without any guidance. Here, the users have to use certain keywords which will perform certain actions for e.g. Read, Send, Compose Mail, Address Book etc. The VMAIL system can be used by a blind person to access mails easily and efficiently. Thus reliance of visually impaired on other people for their activities related to mail can be reduced.

METHODOLOGIES:

1. User Registration
2. Add contact details

3. Speech Password
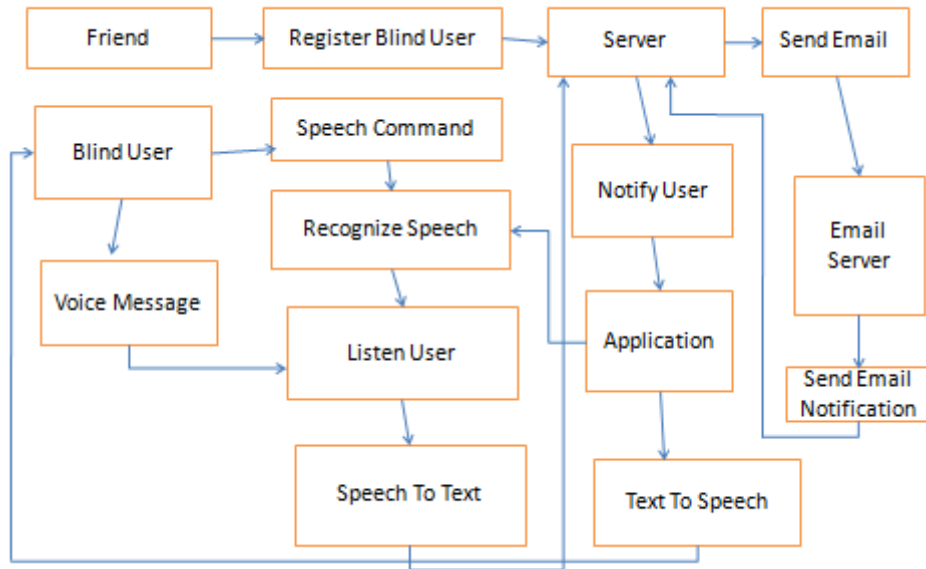4. Compose Mail
5. Inbox

Fig1: Architecture of Voice Based Email system

CONCLUSION:

This project proposes an android application, designed specifically for visually challenged people. This application provides a voice based mailing service where they could read and send mail on their own, without any guidance. Here the users have to use certain keywords which will perform certain actions for e.g. Read, Send, Compose Mail, Address Book etc. The VMAIL system can be used by a blind person to access mails easily and efficiently. Thus reliance of visually impaired on other people for their activities related to mail can be reduced.

SCOPE FOR FUTURE WORK:

Voice could be extended to image attachments and other options such as indentation, fonts etc., that are available with normal E-Mail.