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Efficient Voice Based Mail System

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ABSTRACT: Web has turned out to be one of the essential enhancements for everyday living. Today, in world correspondence has turned out to be simple with development of numerous correspondence advancements utilizing web. Anyway web has turned into revile for outwardly debilitated in view of the reality utilizing requires visual recognition. Regardless of whether much new progression has been executed all around productively the outwardly tested client thinks that it's exceptionally hard to utilize these accessible innovations as the ordinary guileless client may rehearse it. Along these lines, this paper goes for building up an E-mail design that will assist the credulous outwardly hindered individual with accessing the administrations effectively and proficiently for correspondence without past preparing. This design will lessen subjective burden taken by visually impaired individual to recollect and type characters utilizing console as all activities are going also empowered through mouse. In this paper, we describe the voice mail architecture used by blind people to access E-mail and multimedia functions of operating system easily and efficiently. This architecture will also reduce cognitive load taken by blind to remember and type characters using keyboard. It also helps handicapped and illiterate people. In this paper, we describe the voice mail architecture with head tracking used by blind people to access E-mail and multimedia functions of operating system easily and efficiently. This architecture will also reduce cognitive load taken by blind to remember and type characters using keyboard. It also helps handicapped and illiterate people.

KEYWORDS: Microsoft Speech Recognition, Voice Mail, RSS (Real Simple Syndication) Microsoft Speech SDK

I. INTRODUCTION

The present digital era is witness to a rapid and overwhelming growth in the interactive product designing sector. Digital devices like computers, smart phones, and tablets along with internet technology are getting cheaper and more accessible to the common people. As a result they are no more only technologies, rather, have become a part of our daily lives. The inhabitants of this virtual world are across all stratum and classes of society; all having their specific needs and an array of choices to fulfill. For a long time, the differently abled people were deprived from getting the benefits, but now the advent of state of the art assistive technologies has opened up many avenues for these persons. People with vision difficulty or Blindness have been benefited immensely from different computer based systems like automatic text-to-Braille transliteration systems [1], [3], and audio feedback based virtual environments using automatic speech recognition (ASR) and text to speech (TTS) converter. These systems have enabled Blind people to explore the power of the cutting edge technologies and also to communicate effectively with other people with flexibility and accessibility as enjoyed by their sighted counterparts.

Head tracking enables an application to recognize and identify a user's head movements. Head tracking is often found in conjunction with eye or face tracking, where it uses the facial features like the nose, mouth and eyes to track the user. Head tracking can be achieved using a typical basic camera or face-tracking software. It supports and enhances human-computer interaction.

One of the revolutionary electronic technologies in present day is the electronic mail or e-mail. E-mails have become the primary means of communication and productivity to almost all groups of people. They offer a quick and easy sharing of ideas of information and at the same time is cheaper than traditional telephone communication methods, especially over a long distance. E-mails also provide a sense of privacy as the access to one's account is restricted and much other functionality like.

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II. PROBLEM DEFINITION

In the previous system with the help of screen readers it is difficult for blind person to access E-mail system and computer operating easily because it has noisy audio interface. These available systems require use of keyboard which is very difficult for blind people to recognize and remember characters of keyboard. So we implement voice based E-mail system for blind person and it also helps handicapped and illiterate people

III. LITERATURE SURVEY

Jagtap Nilesh et al. [1] describe voice message engineering causes dazzle individuals to get to email and other sight and sound elements of working framework (melodies, text).Also in versatile application SMS can be perused by framework itself. Presently a days the progression made in PC innovation opened stages for outwardly hindered individuals over the world. It has been seen that almost about 60% of all out visually impaired populace over the world is available in INDIA. In this paper, we depict the phone message design utilized by visually impaired individuals to get to E-mail and sight and sound elements of working framework effectively and proficiently. This design will likewise decrease subjective burden taken by incognizant in regards to recall and type characters utilizing console. It likewise helps incapacitated and ignorant individuals.

Poonam Pate et al. [2] describe outwardly weakened people think that it's extreme to use this innovation as a result of the way that utilizing them needs observation. In spite of the way that few new progressions are upheld to help them use frameworks with productivity, no client who is outwardly disabled will utilize this innovation as speedily as a conventional client. In differentiation to customary clients they need some training for utilizing the offered advancements. This paper is gone for building up an email application for Android that can encourage even an outwardly disabled individual to utilize the administrations for correspondence through email. The framework can work exclusively on voice directions spoken by the client by means of discourse to content. This application might be likewise be used by any customary individual with no disability. The framework is upheld by intuitive voice reaction which can make it easy to understand and simple to utilize.

T. Shabana et al. [3] present the outwardly tested individuals think that it's hard to use this innovation on account of the way that utilizing them requires visual recognition. Despite the fact that numerous new headways have been executed to enable them to utilize the PCs effectively no guileless client who is outwardly tested can utilize this innovation as productively as an ordinary innocent client can do that is not normal for typical clients they require some training for utilizing the accessible advancements. This paper goes for building up an email framework that will help even an innocent outwardly impeded individual to utilize the administrations for correspondence without past preparing. The framework won't let the client utilize console rather will work as it were on mouse task and discourse transformation to content. Additionally this framework can be utilized by any typical individual likewise for instance the person who can't peruse. The framework is totally founded on intuitive voice reaction which will make it client benevolent and proficient to utilize.

Pranjal Ingle et al. [4] describe web has turned out to be one of the essential luxuries for everyday living. Each individual is generally getting to the learning and data through web. Be that as it may, dazzle individuals face troubles in getting to these content materials, additionally in utilizing any administration gave through web. The progression in PC based available frameworks has opened up numerous roads for the outwardly hindered over the globe in a wide manner. Sound criticism based virtual condition like, the screen perusers have helped Blind individuals to get to web applications colossally. We depict the Voicemail framework design that can be utilized by a Blind individual to get to messages effectively and productively. The commitment made by this examination has empowered the Blind individuals to send and get voice based email messages in their local language with the assistance of a PC.

Pankaj Kumar Maurya et al. [5] describe with the creation of PC framework the correspondence have turned out to be very simpler. Portable give different highlights such to correspondence, for example, voice calling, content sms and so on. We have proposed a framework which is useful for those people who are physically tested. With the assistance of this instrument the voice can be changed into content and from content to voice. This undertaking will totally dispose of the utilization of consoles and we would almost certainly get to the things just by utilizing our voice and mouse click. The typical individual can likewise be utilized this framework for read reason. It is an easy to use and furthermore productive to utilize.

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IV. PROPOSED SYSTEM

Voice based E-mail system architecture that can be used by a Blind person to access E-mails easily and efficiently. The contribution made by this research has enabled the Blind people to send and receive voice based e-Mail messages in their native language with the help of a computer or a mobile device or head tracking technology.

The architecture of our proposed system is shown in figure. The diagram shows the major components of the present system, which are:

- User selection module
- Mailing options: Compose or Check Inbox
- Accessibility options: text based messages or Voice based messages
- The Interactive GUI framework: An interactive GUI with voice based feedback to key press operations that supports a Blind person to access G-Mail efficiently.
- Mouse click based accessibility for the desktop framework.
- Head Tracking

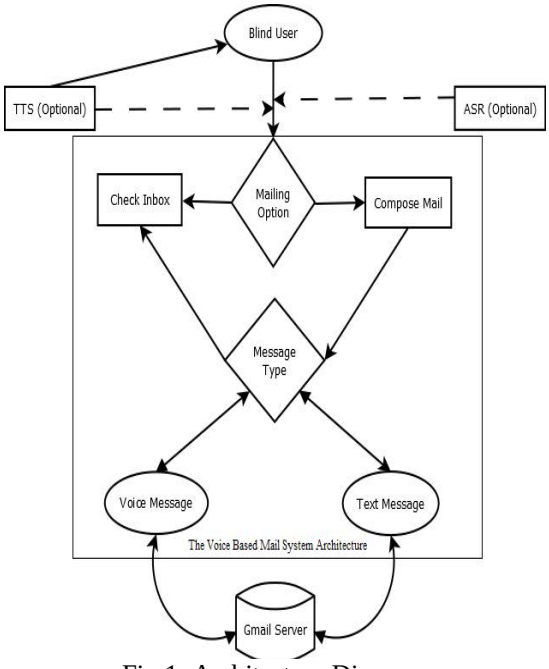

Fig 1: Architecture Diagram

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V. RESULT

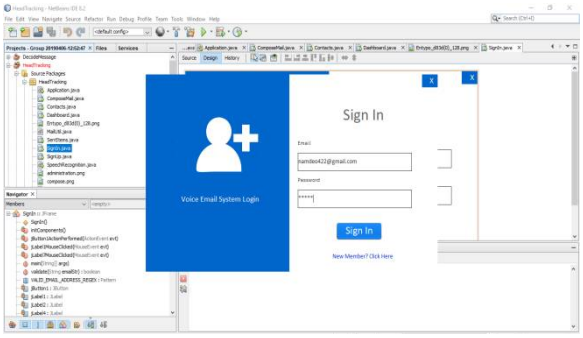

Fig 2: Sign In

Fig 3: Home Page

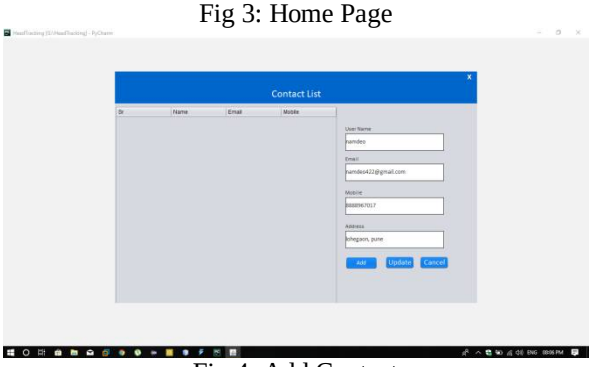

Fig 4: Add Contact

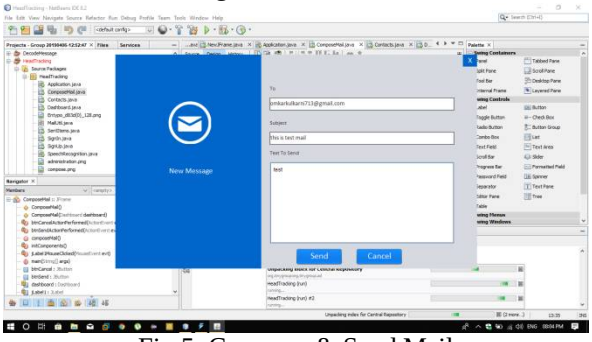

Fig 5: Compose & Send Mail

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VI. CONCLUSION

This paper is an attempt to bridge the gap between the Blind populations to access essential electronic communication modes like e- Mail. We present both desktop as well as mobile based architecture for the same. The system allows a Blind person to send voice based e-Mails messages. This system is also use head tracking technology.This will reduce the extensive cognitive load taken by a Blind to remember and type characters using a keyboard or a mobile keypad. Further, as messages are sent via voice, it eliminates the lack of English language proficiency of a Blind person.

VII. FUTURE SCOPE

In future work, blind person can associate a voice based nick name corresponding to each recipient mail id and during composing a mail, the mail ids of the recipients can be searched through the list of these voice based nick names

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