

# VOICE BASED EMAIL SYSTEM FOR BLIND AND HANDICAPPED PEOPLE

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**ABSTRACT :** *web\_ internet is one amongst the fundamental luxury for daily living. every body is exploitation the facts and knowledge on web. On the opposite hand, blind person face problem in accessing the text resources. the event in pc based mostly handy systems has opened various opportunities for the visually disabled across. Audio response based mostly virtual surroundings, the screen readers square measure helps blind person plenty to use web applications. This project introduces the Voicemail system structural style that may be employed by a blind man to access E-Mails simply. The involvement of analysis helps blind individual to send and receive voice based mostly mails messages in their someone language with the assistance of a laptop or pc.*

**KEYWORDS:** Speech Recognition, Speech to Text, Text to Speech, Email, Internet, Interactive Voice Response (IVR)

## 1. INTRODUCTION

We have seen that the beginning of web has dramatically revolutionized several fields. web has created lifetime of people really easy that individuals nowadays have access to any data they need sitting at their home. one amongst the most fields that web has revolutionized is communication. And talking concerning communication over web, the primary issue that comes in our mind is E-mail. E-mails square measure thought of to be the foremost reliable manner of communication over web, for causing or receiving some vital data. however there's a special criteria for humans to access the net and also the criteria is you want to be ready to see. you want to be thinking that what variety of criteria is that this, all with eyes will see. however there are specially abled person in our society United Nations agency aren't talented with what you have got. affirmative there square measure some visually impaired person or blind people that can't see things and so can't see the pc screen or keyboard.

A survey shows that there square measure over 250 million visually impaired person round the globe. That is, around 250 million peoples measurely unaware of the way to use web or E-mail. the sole manner by that a visually impaired person will send associate E-mail is, they need to dictate the complete content of the mail to a 3rd person not visually impaired ) then the person can compose the mail and ship the behalf of the visually impaired person.

But this is often not an accurate thanks to upset this downside. it's terribly less possible that each time a

visually impaired person will notice someone for facilitate. though for these reasons the specially abled person measurely criticized by our society.

So, for the better-ment of society associated giving an equal standing to such specially abled folks we've got come back up with this project plan that provides the user with ability to send mails exploitation voice commands while not the requirement of keyboard or the other visual things by solely exploitation speech and depression.

## 2. LITERATURE SURVEY

In paper [1], have projected associate email system that will be accessed simply by blind folks. The use of speech to Text device, Text to speech device and Viterbi algorithmic rule square measure taken into thought.. The algorithm works with the technique that the system detects the foremost acceptable word once the user spells it therefore matches the word that is guessed with the explicit word that is pronounced. The user desires to register to the web site after they visit the location for the primary time. This system reduces some drawbacks of the present system

In paper [2] "Voice based mostly System in Mobile Devices for Blind People". In International Journal of rising Technology and Advanced Engineering (IJETA), 2014 This paper deals with "Voice based mostly System in Mobile Devices for Blind People". Voice mail design helps blind person to access e-mail and alternative multimedia system functions of software package (songs, text). additionally in mobile application SMS will be browse by system itself.

In paper [3] "Voice based mostly program and web content Reader". In International Journal of procedure Engineering analysis (IJER) This paper aims to develop a pursuit engine that supports Man-Machine interaction strictly within the style of voice. a unique Voice based mostly program and Web-page Reader that permits the users to command and management the net browser through their voice is introduced. the present Search Engines get request from the user within the style of text and respond by retrieving the relevant documents from the server and displays within the style of text to user

In paper [4] proposes a system for visually impaired and illiterate person for rising their interaction with the email system. this method eliminates use of IVR Technology that used Screen Readers and Braille Keyboard. There, have used Speech\_to\_text and Text\_to\_speech conversion. additionally

for alternative operations voice commands. For registration, used email id and word. For the practicality, use a feature of PHP that's PHP mailer. it's a library which might be wont to send email..

### 3. PROSPOSED WORK

In the projected system, a web\_application is to be Developed exploitation Python Django that may be used by person with numerous visual impurities or unfit peoples, to access and manage emails simply and with efficiency. All the present voice based mostly email systems, give their own user developed email services and do not incorporate the use of Google’s Gmail. So, considering this here, the intention is to develop the application by linking it with the Gmail consumer, thereby giving users a further advantage of well unnatural format and simply accessed and managing Emails and numerous feature will be performed And all the operation in projected model square measure done exploitation Voice command and mouse clicks eg. causing mail, composing mail, forwarding mail etc

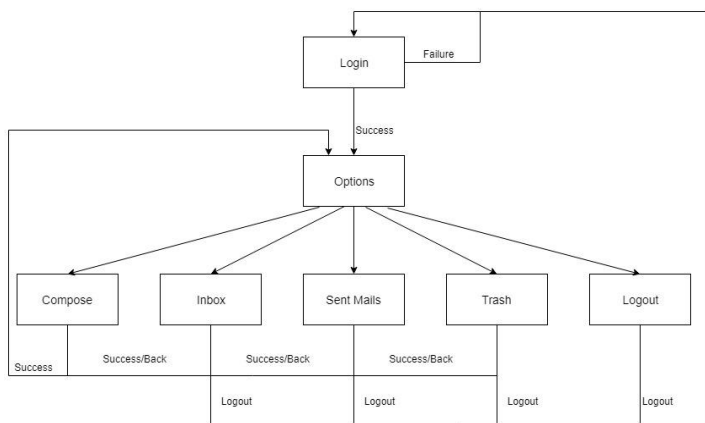


Fig 1. Block Diagram

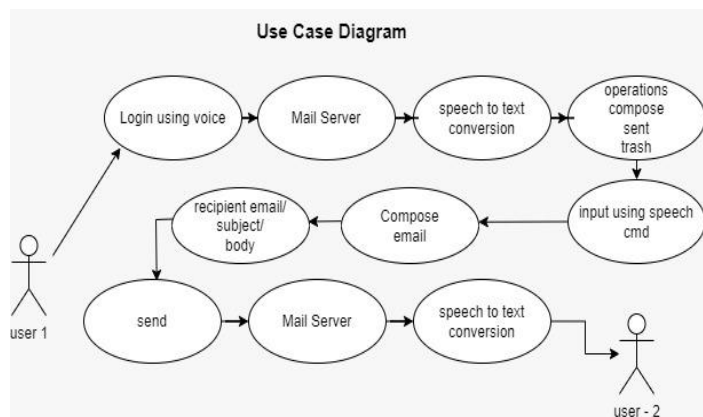


Fig-2 Use Case Diagram

In the above fig -2 it shows how user can compose an email easily using only voice command

### 4. CONCLUSIONS

The project that we've got projected may be a system which is able to facilitate the visually impaired person to access email services expeditiously. this method can facilitate in overcoming some drawbacks that were earlier moon-faced by the blind person in accessing emails. we've got eliminated the idea of victimization keyboard shortcuts at the side of screen readers which is able to facilitate reducing the psychological feature load of basic cognitive process keyboard shortcuts. additionally any non-sophisticated user UN agency doesn't apprehend the position of keys on the keyboard needn't hassle as keyboard usage is eliminated. directions given by the IVR consequently to induce the several services offered. aside from this the user may ought to stick in data through voice inputs once mere. This design will cut out psychological feature load taken by blind to recollect and sort characters victimization keyboard. It additionally helps incapacitated and illiterate peoples.

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