

VOICE BASED EMAIL FOR BLIND PEOPLE

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ABSTRACT

To develop a voice primarily based email system that will facilitate visually impaired individuals to access email in a problem free manner. Together with providing usage of mail services simply and with efficiency, the system also will cut back the psychological feature work that must be unremarkably taken by the visually impaired to recollect and sort characters using the normal Braille keyboards, which are accessible to them. The graphical user interface of this method has been evaluated against the interface of the traditionally accessible mail system. Not only for the visually impaired, but also for people who are illiterate might have the benefit of this technique. The foremost crucial facet which will be thought of developing this technique is that the users of this technique do not have any basic information regarding the keyboard shortcuts used or wherever the keys are used for. All functions to be utilized in this technique are supposed to be easy mouse click operations creating the system very user friendly.

Key words: - *visually impaired, Braille keyboards.*

1. Introduction

Messages can be exchanged between users and subscribers via a voice mail system, which is a computer-based system. These programmes are made to transform an audio message left on hold by a caller into text, which is subsequently forwarded to the intended recipient. Since every official message must be delivered by mail and blind persons are unable to text, it is very helpful for them. Another name for a voice bank is a voice bank system. This system functions as an application and includes a playback interface for selecting, managing, and playing messages as well as a delivery method for delivering messages in various ways.

In this application, the user and the system communicate in a number of ways. For example, the system asks the user to enter the message, displays the message they enter, and also prompts them to provide the recipient's email address before sending the message when we tell it to. We translate our sounds into text using the voice Activation Detection API. The system also speaks, i.e., reacts to the user in the appropriate way. The Answer Activation detection API is used for this.

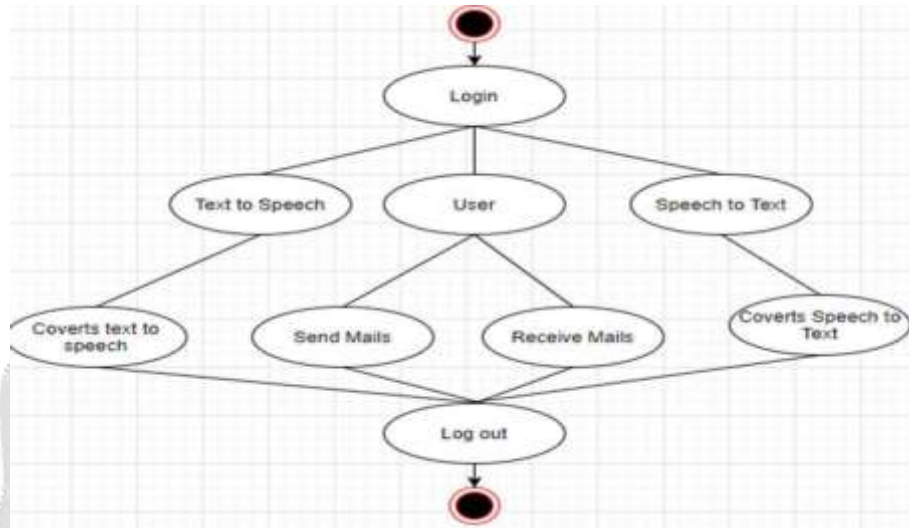
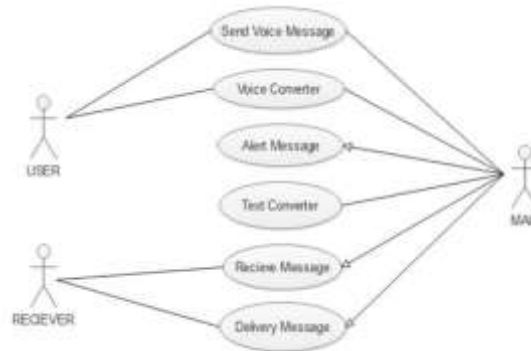
The voice recording feature is absent from standard Gmail. We are creating a record option in our project, and the voice recording will be converted to text and sent to a specific mail. Due to their busy schedules, many people today choose to record and send messages rather than type them. People can save time and get the best message possible by using this kind of application.

Flow of Events: -

A series of actions (or events) taken by the system is referred to as a flow of events. Usually, they are filled with a wealth of information that is written in terms of what the system ought to do rather than how it really carries out the work. In your preferred text editor, construct the flow of events as distinct files or documents. Then, use the Files tab of a model element to attach or link the flow of events to a use case.

A flow of events should include:

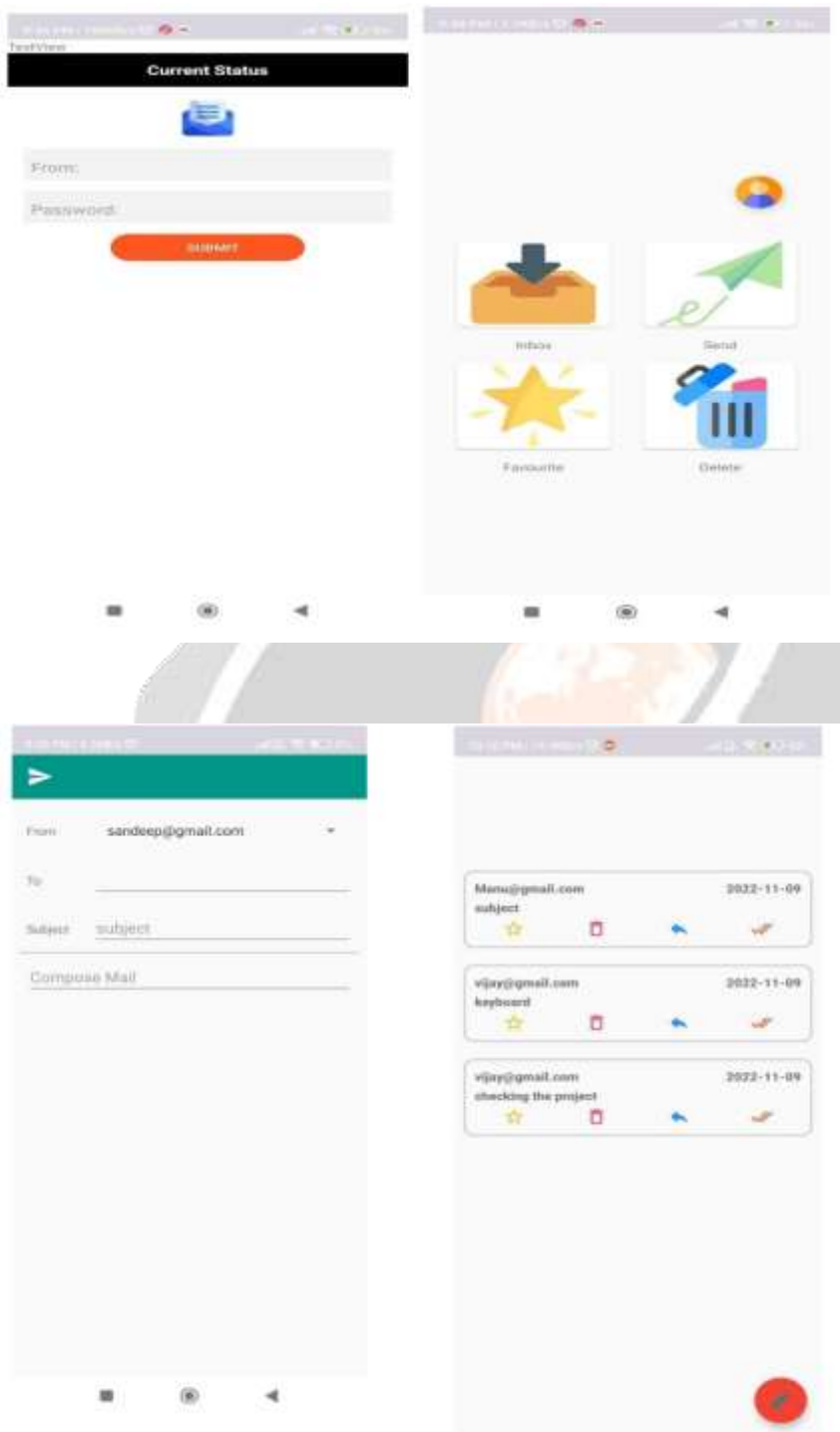
- When and how the use case starts and ends
- Use case/actor interactions
- Data needed by the use case
- Normal sequence of events for the use case
- Alternate or exceptional flows



Implementation: -

S.NO	TestCases description	Input	Expected Result	Observation Result	Status
1	To login enter username and password	Give username and password through voice	Navigated to homepage	Homepage opened	pass
2	To check mails	Say inbox through voice	Read the mails we received	Displaying and reading mails	pass
3	To compose mails	Give email of receiver, subject, body of mail through voice	Mail has to send to receiver	Email sent	pass
4	To delete mails	Click on delete	Mail should be delete	Mail deleted	pass

Results: -



Conclusion:-

This email system is easy to use for users of all ages. It has speech-to-text and text-to-speech capabilities with a speech reader, allowing both blind and visually impaired people to operate one system. The software considers an instant messenger system that facilitates the interaction of visually impaired users with other networked users. Now, advances in computer technology are opening up a platform for blind people around the world. It has been observed that nearly 60% of the world's blind population lives in India. This article describes the voicemail architecture used by blind people to access the operating system's e-mail and multimedia features simply and efficiently. This architecture also reduces the cognitive load of visually impaired people memorizing characters and typing using a keyboard. It is also useful for people with disabilities and those who cannot read or write.

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