

SYNOPSIS
CAPSTRONE PROJECT PLANNING
TITLE OF PROJECT

VOICE BASED EMAIL FOR VISUALLY CHALLENGED

Submitted by:

Group No:6

SR.NO	Student Details	Name	Enrollment No
1	Team Leader	Markad Avinash	2111100160
2	Group Member	Thombare Rushikesh	2011100045
3	Group Member	Jadhav Ankita	2111100234
4	Group Member	Momin Faiz	2011100046

UNDER THE GUIDANCE OF

IN PARTIAL FULFILLMENT OF
DIPLOMA IN COMPUTER ENGINEERING

Introduction:

As the title suggests, the application will be a web-based application for visually impaired persons using IVR- Interactive voice response, thus enabling everyone to control their mail accounts using their voice only and to be able to read, send, and perform all the other useful tasks. The system will prompt the user with voice commands to perform certain action and the user will respond to the same. The main benefit of this system is that the use of keyboard is completely eliminated, the user will have to respond through voice and mouse click only. Now you must be thinking that how will a blind person will see the correct position on the screen for doing mouse clicks. But this system will perform actions based on the clicks only that is left click or right click, it does not depend on the portion of the screen where the cursor is placed before the click giving user the freedom to click blindly anywhere on the screen.

Literature survey:

Existing systems of today are basically applications that provide accessing and managing of emails benefits to its users via web facilities. Making email widely used communication form. The existing systems do not support any voice commands or audio facilities and therefore it is not suitable for visually challenged people. Also, there are various existing search engine which take request in form of text from user and retrieve the relevant documents from server and responds by displaying it in the form of text which is not possible for visually challenged people .

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Requirement:

- **Hardware:**

- 8gb ram
- I5 processor
- 512gb SSD

- **Software:**

- Windows 10 pro
- PyCharm Editor
- Text-to-speech API
- Speech-to-text API

SRS

Introduction:

Purpose

This document contains the software requirements for the Wireless Spy Car module in IOT. The main purpose of the Wireless Spy Car Module in IOT to be implemented to monitor, spy, detect the particular task. This is the first version of the SRS document. The purpose of this document is to state all system requirements clearly for usage in the development stages ahead. This document is meant to be viewed by the project development team, users. All requirements for the system have been stated clearly in the document and this is to make sure that everyone related to the system directly or indirectly understands all requirements stated in this document.

Project Scope:

It can improve the accuracy of message content and it allows to send multiple message to multiple people. Voice mail can allow the message to be easily updated and it can reduce the need of receptionist it can serve as an important medium for business in communication.

Product features

Following are the features of this project: -

- Communicate with Voice.
- Accuracy
- Send message to multiple people

Scope of Project:

There is wide future scope of this system many enhancements can be done in the system such as including different languages, including functionality of accessing the deleted mails and spam mails. Also, this system can be enhanced such that it can also send attachments which are more beneficial for visually challenged people. This system can be made available to all regional people who are not educated enough and inclusion of different languages will make this system easily accessible. Furthermore sign language system can also be integrated with the system to make the system more scalable and robust.

Limitations:

- Some people cannot use the voice-messaging systems.
- Difficult for people to recall which options they used previously.
- You will get tired of listening to the messages and end up deleting the messages without listening to them, This causes you to miss the important messages.

References:

1) Zero to mastery in Python RAKESH K YADAV VAYU EDUCATION OF INDIA 2021

2) <https://www.geeksforgeeks.org/voice-based-android-mail-system-for-visually-impaired>

3) <https://www.opensourceagenda.com/projects/voice-based-email-for-blind>