# PROJECT PROPOSAL

## 1. Project Title:-

**Voice Based Email for Visually Challenged**

## 2. Project Scope:-

The development of computer-based accessible solutions has given the blind and visually impaired many new opportunities all around the world. However, because utilizing them involves visual sight, visually impaired persons find it extremely difficult to utilize this equipment. The weaknesses of the current system are remedied by the proposed system. In contrast to the current systems, the proposed approach is voice command anchored.

Python is used to implement the requested task. Ideas focuses on providing basic features like create, read, and delete emails as well as voice-based instructions. Unlike the existing system, which places a strong emphasis on user friendliness and compatibility. By using this system, the user is prompted to give the system certain commands, such as "compose the mail," "display the email id of the previous three unread messages," and "select one mail id" before reading the topic and content of that particular email id. Moreover, Users can also able to delete the particular email which is not required. Direct user- system interaction is used. Our method is favorable to all sorts of individuals, whether they are normal, visually handicapped, or illiterate, whereas the current system concentrates more on normal people.

## 3. Requirements:-

Hardware Required: PC, Keyboard, Mouse, Internet, Windows 10+ OS

Software Required:

1. Python 3.8 IDLE
2. Visual Studio Code Editor
3. Chrome Browser

Libraries Required: gTTS, Speech Recogntion, psutil, threading, os, datetime, struct, random, pvporcupine, pyaudio, imaplib, smtplib, email,

## STUDENTS DETAILS

| Name | UID | Mobile Number | Signature |
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## APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

| Name | Title | Signature (with Date) |
|------|-------|------------------------|
| GAGAN TIWARI (E13616) | Supervisor | |