

PROJECT EXHIBITION-2

VOICE-BASED EMAIL SYSTEM FOR VISUALLY IMPAIRED



Group 46



Group Members

Kaustubh Tungar - 21BCE10732

Aryan Pachori - 21BCE10786

Gaurav Pant - 21BCE10842

Mayank Raj - 21BCE108487



INTRODUCTION

The most common mail services that are used in our day to day life cannot be used by visually challenged people. To make these systems convenient for these people who are visually challenged there are various technologies provided to them like screen reader, automatic speech recognizer, speech to text and text to speech, braille keyboard, etc. However, these technologies are not that much useful for those people as it could not give the proper response like a normal system.



Objective

The project is a python-based application for visually impaired persons using speech to text 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.

What is voice based email system?

The objective of Voice Based Email for Visually Impaired is to. help challenge one's access mails easily and efficiently. This application is based on using speech-to-text and text-to-speech converters, thus enabling everyone to control their mail. accounts using their voice only and be able to read, send etc..

Our Solution

In the proposed system, a desktop application is to be developed that can be used by people with various visual imparities, to access emails easily and efficiently. All the existing voice based email systems, provide 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 Client, thereby giving users an additional advantage.

USABILITY

The objective of Voice Based Email for Visually Impaired is to help challenge one's access mails easily and efficiently. This application is based on using speech-to-text and text-to-speech converters, thus enabling everyone to control their mail accounts using their voice only and 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.



HARDWARE REQUIREMENT

- 1GB RAM
- 200 GB HDD
- Intel 1.66 GHz Processor Pentium4

SOFTWARE REQUIREMENT

- Windows10
- Visual Studio2013
- Windows Operating System
- ASP.net
- Microsoft SQL Server



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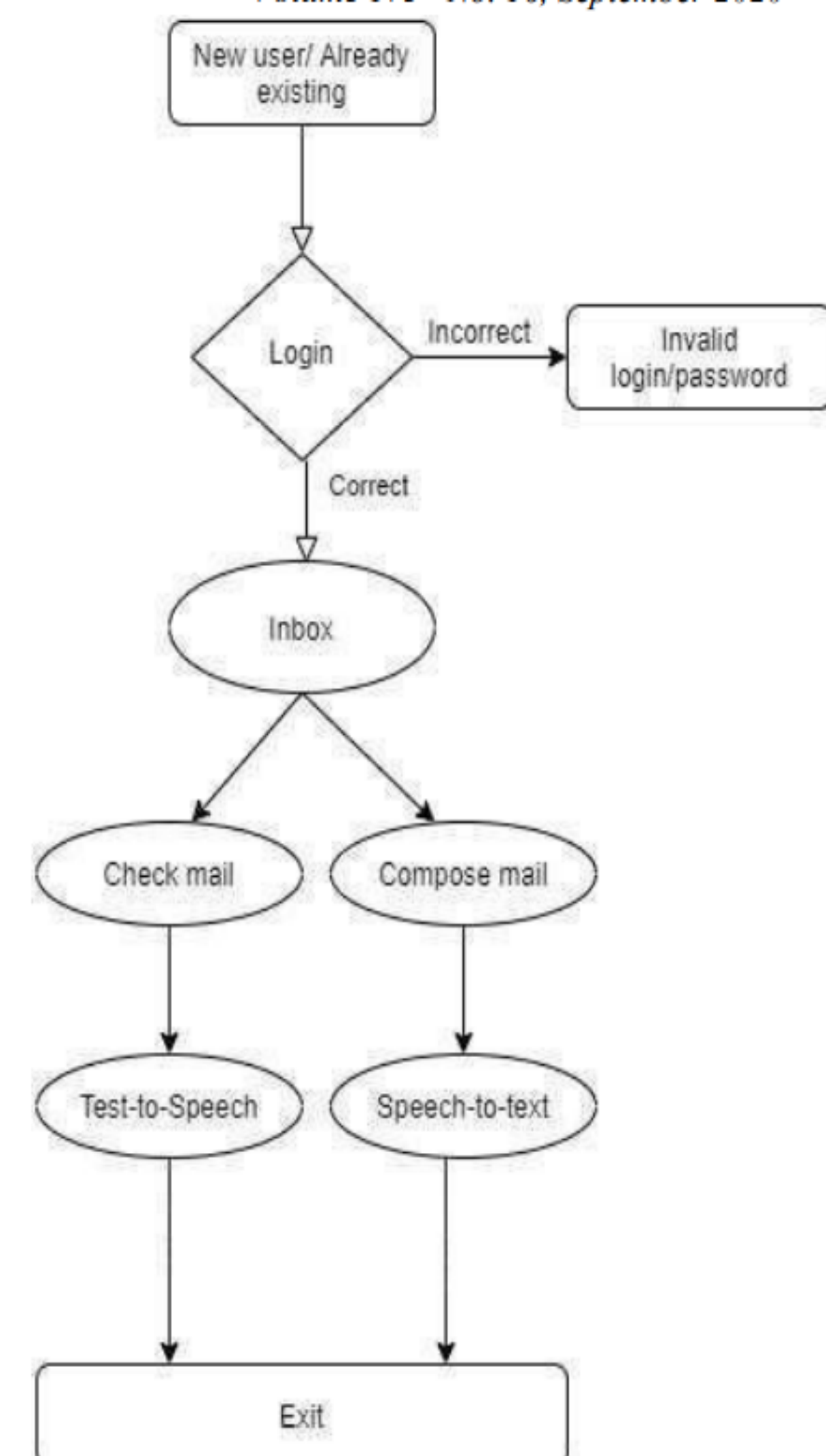
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Process Flow

- The user has to register themselves by creating their account.
- It will prompt for Email id and Password, following which, the authentication will take place.
- For correct credentials entered the user's registration process will be successfully completed.
- The user can log into their mail systems, Check mails and compose them.
- Here, the Speech-to-text & Text-to-speech modules come handy.
- System reads out mails, the sender's name, the subject and the main body.
- Similarly, users can compose emails with the help of the Speech Recognition module or directly send audio attachments with the recorder provided by the application.





TEAM MEMBER'S CONTRIBUTION

Kaustubh
Tungar

Aryan
Pachori

Gaurav
pant

Mayank
Raj



**THANK
YOU**

