



M-VOICE: IMPACT OF VOICE ASSISTANCE IN ELECTRONIC MAIL SYSTEM

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Abstract: Voice assistance systems have emerged as transformative technologies that streamline and augment human-computer interactions. This paper presents a state-of-the-art voice assistance system designed to provide an unparalleled user experience across various applications. The paper also highlights the system's versatility and extensibility through seamless integration with email system. The voice assistant listens to the user's voice input and converts it as a text and then sends it as an email message to the recipients. Finely, Researchers have to provide user's Email id, which will be the sender email id for the recipient and this can be executed using Python. SMTP is the most common and popular protocol of email which means Simple Mail Transfer Protocol. It is used for transmitting email from one account to another over the internet. Protocol runs a list of instructions that validate and manage the transfer of email and also it pushes the message from client to the server. MTA-Message Taste Agents is the client which should be present in the system to send and receive mail.

Index Terms - E-Voice, Voice Assistant, EMAIL, Id, Artificial Intelligence, SMTP

I. INTRODUCTION

Technology is advancing at rapid pace, making people's lives easier by allowing them s complete most tasks in less time and with more accuracy and efficiency. Communication as one of the professions that has advanced to the next level due to technological advancements and she availability of the Internet. Distance has become such a minor factor in communication as a result of technological advancements. Email is one of the most reliable methods for exchanging critical information, and it is also utilized globally: However, this goes same exactly with the language which becomes a barrier while it comes to the writing part and conveying the exact message. Millions of individuals who are Dyslexic in nature and it's a great tool for the lazy people as well who feels lay in typing email const this way Dyslexic people are very far away from email communication and internet world The current email system is inaccessible to these Dyslexic persons, they are unable to compose emails, as well as read the material shared by them. As a result, they are unable to use existing system.

To access the internet, a person must be able to read what is printed on the screen, rendering internet technology worthies for Dyslexic person. A Dyslexic person can only send an E-mail if they offer a third party the whole content of the message so that the third party may prepare and send the message on their behalf. This method, however, does not result in a solution to the problems. Finding third person is not always possible for Dyslexic individual, and sometimes the content is personal in order to retain the specifications integrity. As result, in order to assist these people and build society, authors devised this concept, which allows e Dyslexic person to send emails using voice commands rather than a keyboard.

II. ADVANTAGES

The proposed model makes use of SMTP library and packages, speech recognition etc and microphone. User has to give voice command to the email voice assistant. He has to give the specific recipient (Name) which he already implemented in the assistant After giving the contest of email, through our own voice which the system captures and convert it into text Then the email voice assistant sends the message to that recipient. This model involves Artificial Intelligence. It also fetches the mail id fro the excel while sending in multiple.

III. FEASIBILITY STUDY

The feasibility of the project is analysed in this phase and a knowledge proposal is put forth with a very general plan for the project and cost estimation. During system analysis the feasibility study of the proposed system is so be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for the system is essential

A well-designed study should provide a historical background of the business or project, a description of the product or service, accounting statements, details of the operations and management, marketing research and policies, financial data, legal requirements and tax obligations Generally, feasibility studies precede technical development and project implementation. the project's potential for success therefore, perceived objectivity is an important factor in the credibility of the study for potential investors and lending instructions. It must therefore be conducted seal an objective, phased approach to provide information upon which decisions can be taken.

IV. OBJECTIVE

Voice assistant has shown significant process and its potential growth, and billions of devices incorporates them in domestic use. Then, to communicate with one another, Email is one of the most efficient way and the oldest way, which transfer information fast soo. In this paper, we are targeting to establish an At based email voice to text composer (E-VOICE). The voice assistant listens to the user's voice input and converts it as a test and then sends it as an email message in the recipient. Firstly, we have to provide there's Email id, which will be the sender email id for the recipient and this can be executed using Python. 5MTF is the most common and popular protocol of email which means Simple Mail Transfer Protocol. It is used for transmitting email from one account to another over the internet. Protocol means a list of instructions that validate and manage the transfer of email and also it pushes the message from client to the server. MTA- Message Transfer Agents is the client which should be present in the system to send and receive mail.

V. MODULE DESCRIPTION

5.1 SPEECH TO TEXT (STT)

Speech recognition most important an interdisciplinary subtitled of computer science and computational linguistics that develops methodologies and technologies that enable the recognition and translation of spoken language into text by computers with the main benefit of search ability. It is also known as automatic speech recognition (ASR), computer speech recognition or speech to text (STT). It incorporates knowledge and research in the computer science, linguistics and computer engineering fields. The reverse process is speech synthesis. Some speech recognition systems require "training" (also called "enrollment") where an individual speaker reads test or isolated vocabulary into the system. The system analyzes the person's specific voice and uses it, the recognition of that person's speech, resulting in increased accuracy. Systems that do not use training are called "speaker-independent systems System that use training are called "speaker dependent".

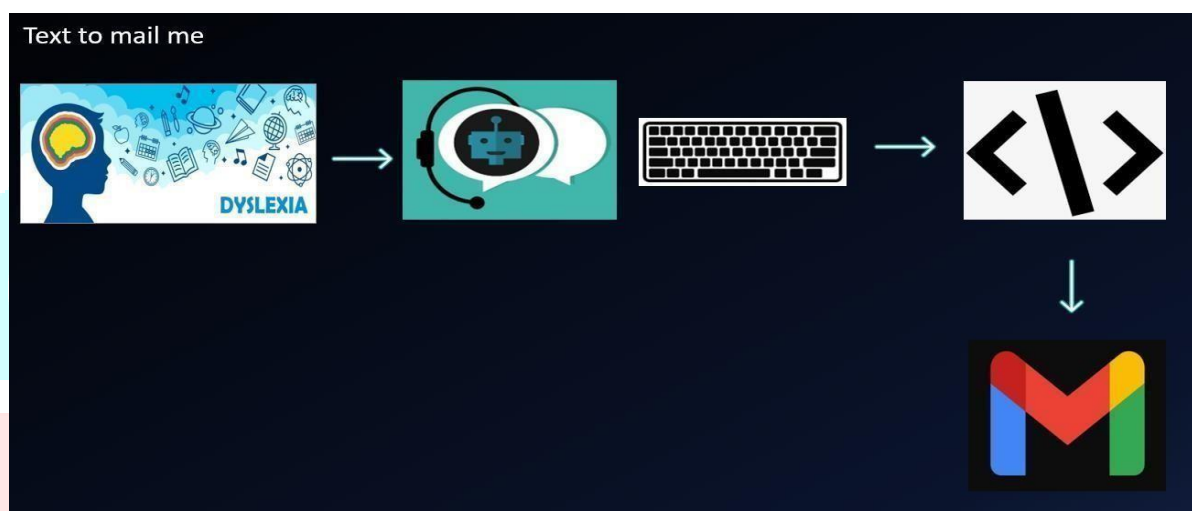


Fig.1: Representation of Architecture Diagram for single recipient

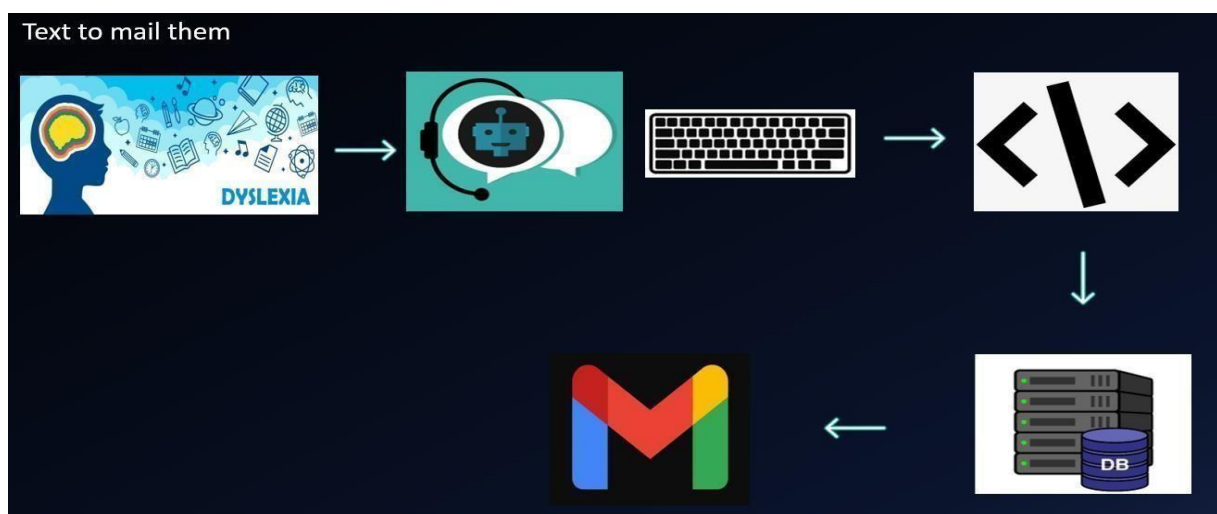


Fig.2: Representation of Architecture Diagram for multiple recipient.

5.2 TEXT TO MAIL ME

The voice captured using the speech recognition protocol is converted into text using the pyttsx3(check spelling) protocol and then the converted text content is sent to the recipient including the subject and attachments accordingly

5.3 TEXT TO MAIL THEM

The voice captured using the speech recognition protocol is converted into text using the pyttsx3(check spelling) protocol and then the converted text content is sent to multiple recipient's using the database which we created in Excel, the converted text including the subject and attachments accordingly are sent to all of them

VI. CONCLUSION

With the use of modules like speechtotext() and mail them), we have made email service accessible to the entire dyslexic society. It helps them to mail with zero difficulty. Our project entirely focuses on the benefit for the dyslexic people so that they too can integrate with the world themselves. Also, the project is based on voice commands, which is the next big innovation in the industrial enterprise. Finally, we have made project which will surely bring a boost in the innovation industry. Thus, fulfilling the development goals like "change maker".

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REFERENCES

- [1] G. Shobe, G. Anusha V. Jeevithe, R. Shammathi. "An Interactive Email for Visually Impaired". In International Journal of Advanced Research in Computer and Communication Engineering (UARCCE) 2014
- [2] Jagtap Nilesh, Pawan Alai, Chavhan Swapnil and Hendre M.R." Voice Based System in Desktop and Mobile Devices for Blind People in International Journal of Emerging Technology and Advanced Engineering (JETAE), 2014
- [3] Jagtap Nilesh, Pawan Alai, Chavhan Swapnil and Bendre M.R. "Voice Based System in Desktop and Mobile Devices for Blind People" in International Journal of Emerging Technology and Advanced Engineering, vol. 4, no. 2, pp. 404-407, 2014,
- [4] Ummuhanysifa U. Nr Banu P K Voice Based Search Engine and Web Page Reader in International Journal of Computational Engineering Research (UCER),