VEXOMAIL

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Submitted to:

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VEXOMAIL

Team: The Good Thinkers

Name of Team Member	Capabilities
Keval Talaviya	Leadership
Shubham Vekariya	Creative Thinking
Akash Suvagiya	Problem Solving
Smit Patel	Decision Making

- **Team Mentor**: Prof. Kaisarjahan Ansari

- **Experience and knowledge**

Brief Description

VEXOMAIL System is an Email System for people who are visually impaired people as well as illiterate people. Which takes the voice instructions from the user and write the mail from voice to text and it can also read the text from the mail in form of voice which is not present in any existing system.

- **Problem**

The proposed system is based on a completely novel idea and is now here like the existing mail systems. The most important aspect that has been kept in mind while developing the proposed system is accessibility. A web system is said to be perfectly accessible only if it can be used efficiently by all types of people whether able or disable. The current systems do not

provide this accessibility. Unlike current system which emphasizes more on user friendliness of normal users, our system focuses more on user friendliness of all types of people including normal people visually impaired people as well as illiterate people.

- ## Highlights

    One of the major advantages of this system is that user won't require to use the keyboard and Mouse. All operations will be based on voice instruction. So that Blind people and illiterate people can easily communicate with system.

- ## Innovation

    Blind People can easily communicate with each other using mail. Also illiterate people can read and send mail using language translation feature.

- ## Main contributions

    While developing it, basic idea was given by Shubham Vekariya about delivering all the communication related things which are needs of the human being at your hand. Financial related idea was given by Smit Patel and Akash Suvagiya while the idea about translation is given by team leader Keval Talaviya.
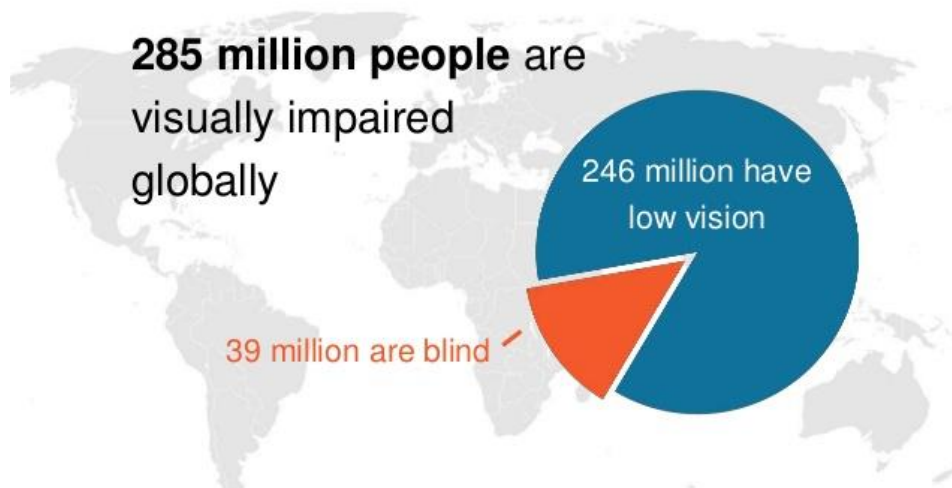
VALUE PROPOSITION

There is nothing more important than communication. Now onward all official notifications and proposal send via mail earlier it was sent via post. Nowadays most of people use mail so that the question is arise that how can blind and illiterate
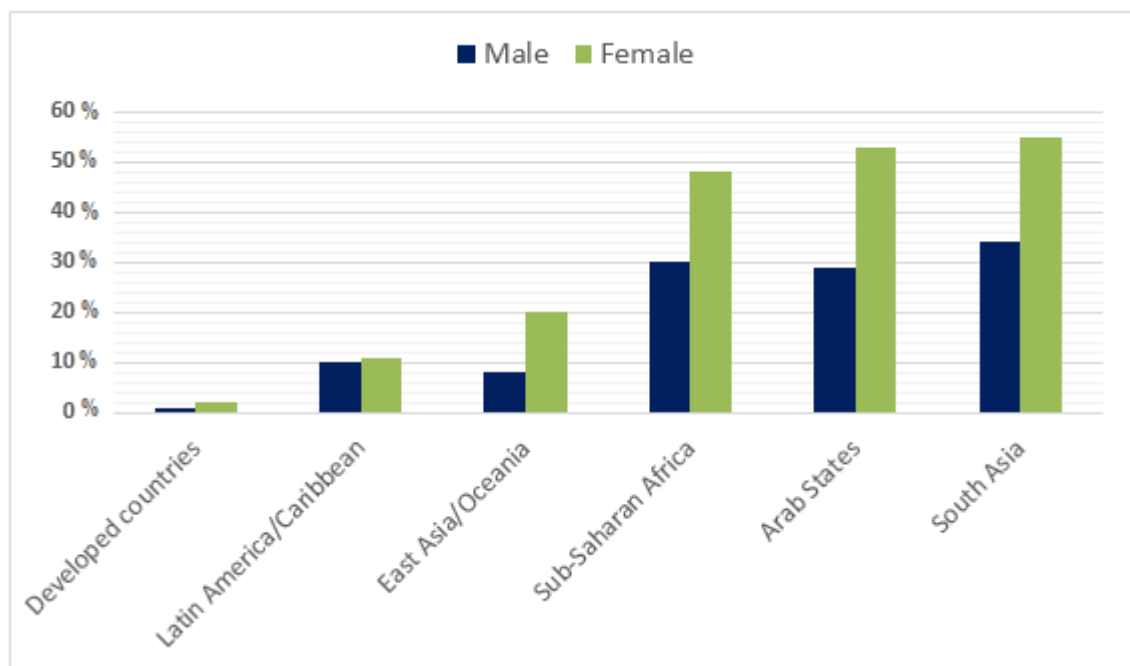
people read and send mail. So, VEXOMAIL make its simpler for blind and illiterate people so it is more valuable for society.

MARKET SURVEY

- Our target segment in the market is currently available email systems.

285 million people are visually impaired globally

246 million have low vision

39 million are blind

And year by year the fact and figure are increasing significantly.

- Our system will be use by blind people and illiterate people so that all email service provider can have interest.

CURRENT STAGE

Traditional email system cannot able to send mail via voice. We can take an instruction in form of voice and perform respective operations base on that voice. Based on the instructions mail operation like compose mail and send mail are preform and also get the voice notification of the new mail with sender information and subject.
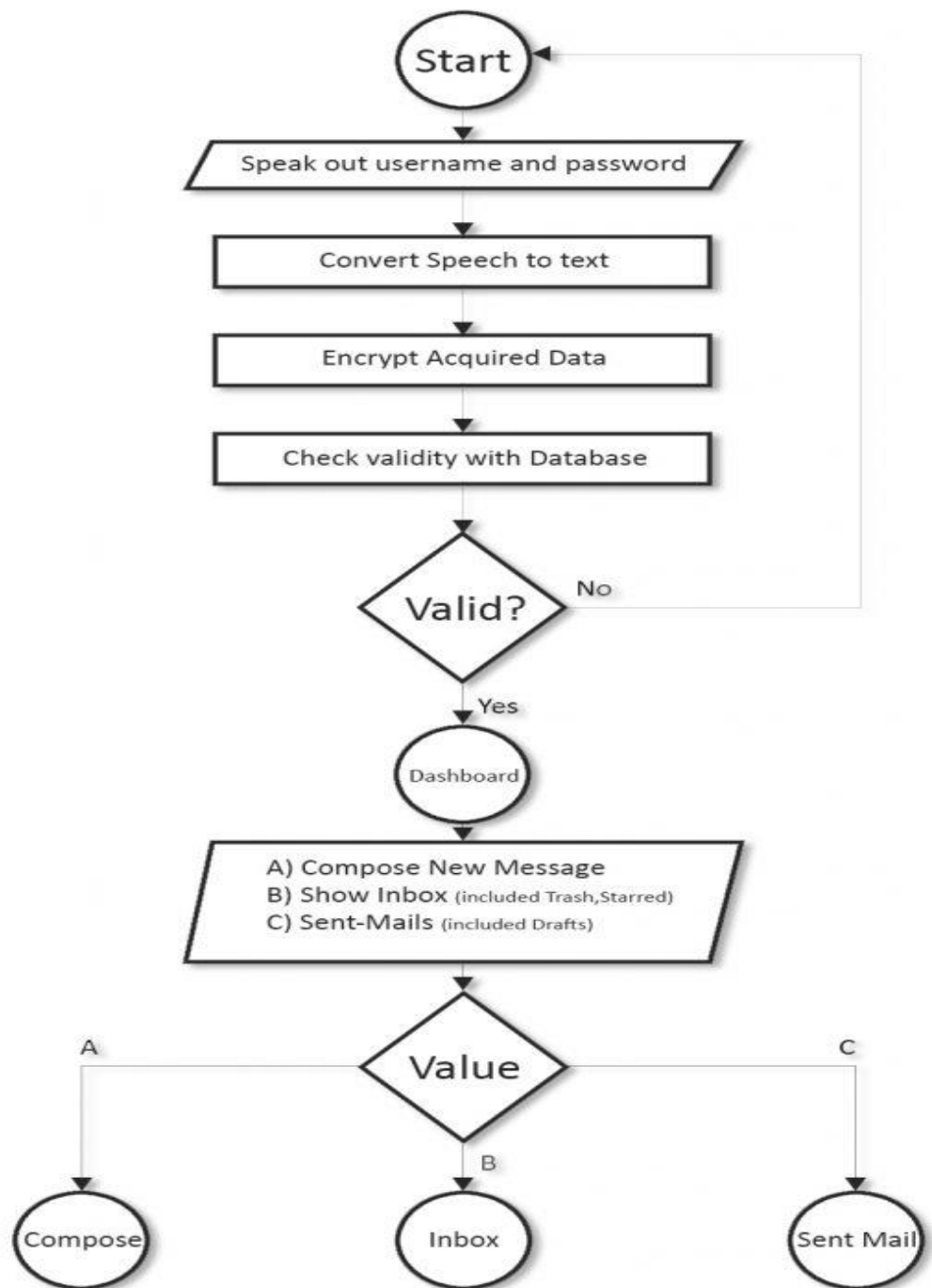
NEXT STAGE

We need to develop a system which can work in any condition and work on voice and there is no any type of bug on this system. For that we use different testing mechanism and try to solve all the problems. So, it work finely and also extends the features of translation of mail language. So, people can use this feature to communicate with other people easily.

PROPOSED SOLUTION

- Here we propose the applications with speech synthesis, speech recognition systems and screen readers. Speech synthesis is defined as the artificial production of human speech. A computer called as speech synthesizer is used for the purpose and this can be implemented in software and hardware. Speech recognition is a field of computational linguistic that is used to develop methodologies to enable the recognition and translation of speech into text by computers; also known as "automatic speech recognition" or just "speech to text". Screen readers are used to read out the content displayed on the screen. Interactive voice response (IVR) systems can respond with pre-recorded or dynamically generated audio to further direct users on how to proceed.

When mail receive from any user then speak that mail and sender detail automatically by computer.

Detailed Explanation of the proposed solution

- **Send Mail**

  Algorithm for composing an email:

  1. Start Application by saying "Start VEXOMAIL"
  2. Prompt, click on compose.
  3. Say email address of the receiver.
  4. Prompt subject of the email.
  5. Prompt the email body through voice.
  6. Say "Send" to send the email.
  7. Stop.

- **Compose a Mail**

  This module is used to compose a new mail. Below are the steps followed by this module to compose a new mail.
  1. Compose a new Mail by saying "Compose mail".
  2. Give Voice Data about the Recipient, and CC, BCC, the Subject and then the body
  3. If satisfied with current input then say "next Stage"
  4. In next Stage your voice will be recognized, Say "proceed further"
  5. In this stage your voice and input will be verified if any problem is found then system will speak "something went wrong" otherwise user say "Send mail" to proceed Send the Mail or say "Save as draft" to save as Draft.

- **Inbox**

  This page will store all of the mails received by user. Below steps explains how to access a mail from inbox:
  1. All the received Mails will be listed sorted in order of date

2. Hear unread mail by saying "Notify new mail"
3. Open mail by its subject.
4. In this Stage your mail will be read out
5. Stop.

FUND REQUIREMENTS

Total cost (including consumables, non consumables, recurring and non-recurring): RS.1,11,800

- ## NON RECURRING/NON CONSUMABLES

Component Name	Where it will be used?	Quantity	Price in lifetime(INR)	Total	Alternate components , its price and reason for not choosing the same
Google cloud	Storage	1	5000	5,000	
Total(A)				5,000	

- **RECURRING/CONSUMABLES**

Item	Quantity	Price per Month (INR)
Application server	1	7,000
Google translate API	1	1,400
Internet Service	1	500

PATH FORWARD

When person speaks the message system will convert into appropriate mail and send to the receiver. On receiver side system will read aloud received message.