

Smart Email Assistant

**Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering degree in Computer Science and Engineering**

By

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SCHOOL OF COMPUTING**

SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

Accredited with “A” grade by NAAC | 12B Status by UGC

Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai,

Chennai – 600 119.

APRIL - 2022



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **Mr. Pedada Mahesh (38110396), Mr. Pabbisetty Nikhil(38110365)**, who carried out the project entitled “**SMART E-MAIL ASSISTANT**” under supervision of **DR D.USHA NANDHINI ,M.E.,Ph.D**, during the period NOV 2021 to APRIL 2022.

Internal Guide

Dr. Usha Nandini, M.E., Ph.D.

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Submitted for Viva voce Examination held on _____

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DECLARATION

We, **Pedada Mahesh (38110396) Pabbisetty Nikhil(38110365)** hereby declare that the Project Report entitled “**SMART E-MAIL ASSISTANT**” done by me under the guidance of **Dr. Usha Nandini, M.E., Ph.D.**, at Sathyabama Institute of Science and Technology is submitted in partial fulfilment of the requirements for the award of Bachelor of Engineering degree in Computer Science and Engineering.

DATE:

PLACE:

SIGNATURE OF CANDIDATE.

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to the **Board of Management of SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. T.Sasikala M.E., Ph.D., Dean**, School of Computing. **Dr. S. Vigneshwari M.E., Ph.D.**, and **Dr. L. Lakshmanan M.E., Ph.D.**, Heads of the Department of Computer Science and Engineering for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Project Guide **Dr. Usha Nandini, M.E., Ph.D.**, for his valuable guidance, suggestions and constant encouragement paved the way for the successful completion of my project work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of Computer Science and Engineering** who were helpful in many ways for the completion of the project.

ABSTRACT

The Internet is perhaps the main types of extravagance in regular daily existence. Everybody utilizes realities and data on the Internet. Daze individuals, then again, will think that its hard to get to message assets. The improvement of PC programs has paved up plenty chances for the outwardly users. Contingent upon the visual climate that reacts to sound, screen perusers can assist many visually impaired individuals with getting to Internet programs. This venture presents a voice message program, which can be utilized by daze individuals to effortlessly get to email. Having part in research encourages daze people to receive and send the messages related to voice-based instantly. This can be done with the help of computer assistance in their own or home language.

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CHAPTER 1

1.INTRODUCTION

The most common mail services that we use in our day-to-day life cannot be used by visually challenged people because they do not provide any facility so that the person in front can hear out the content of the screen. As they cannot visualize what is already present on screen they cannot make out where to click in order to perform the required operations. For a visually challenged person using a computer for the first time is not that convenient as it is for a normal user even though it is user friendly. Although there are screen readers available still these people face minor difficulties. Screen readers read out whatever content is there on the screen and to perform those actions the person will have to use keyboard shortcuts as mouse location cannot be traced by the screen readers. A user is new to computer can therefore not use this service as they are not aware of the key locations. The screen readers read out the content in sequential manner and therefore user can make out the contents of the screen only if they are in basic HTML format. Thus, the new advanced web pages which do not follow this paradigm in order to make the website more user-friendly only create extra hassles for these people. The most common mail services that we use in our day-to-day life cannot be used by visually challenged people because they do not provide any facility so that the person in front can hear out the content of the screen. As they cannot visualize what is already present on screen they cannot make out where to click in order to perform the required operations. For a visually challenged person using a computer for the first time is not that convenient as it is for a normal user even though it is user friendly. Although there are screen readers available still these people face minor difficulties. Screen readers read out whatever content is there on the screen and to perform those actions the person will have to use keyboard shortcuts as mouse location cannot be traced by the screen readers. A user is new to computer can therefore not use this service as they are not aware of th key locations. The screen readers read out the content in sequential manner and therefore user can make out the contents of the screen only if they are in basic HTML format. Thus, the new advanced web pages which

do not follow this paradigm in order to make the website more user-friendly only create extra hassles for these people.

Internet is a storehouse of today's world. It has even become one of the fact methods used in communication. And out of which one is email which is one of most common in every aspect of business world. However, not all can make use of it as until it's not visible it's of no use. This makes a completely useless technology for visually impaired and illiterate people. Even the system that are available currently like the screen reader TTS and ASR do not provide full efficiency to the blind people so as to use the internet. As nearly 285 million people worldwide are estimated to be visually impaired it becomes necessary to make internet facilities for communication usable for them also. Thus, we have come up with this project in which we will be developing a voice-based email system which will aid the visually impaired people who are naive to computer systems to use email facilities in a hassle-free manner. The user need not worry about basic information regarding keyboard shortcuts or where the keys are located. All functions are simple mouse click operation he/she needs to perform in order to avail a given service as the system itself will be promoting them as to which click will provide them with what operations

There are 285 million people who are estimated to be visually challenged worldwide: thirty-eight million are blind and 247 million have low vision [1]. Thus, it turned out to be the ethical responsibility to give one thing back to society and develop an application for the visually impaired. The existing systems don't offer an entire voice-based application for a visually impaired person. [2] So, there emerged a necessity to make a voice-based application for such individuals so that they can send or receive the emails with ease by providing proper services. Email has turned out to be a crucial a part of formal communication in skilled world. For folks that can see, emailing isn't a giant deal, except for folks that are not blessed with ability of vision it poses a key concern as a result of its intersection with several vocational responsibilities. Therefore, we've attempted to develop a voice based email system which is able to aid the visually impaired individuals who are naive to such systems to use email facilities in a trouble free manner. The users of this application do not have to possess knowledge regarding keyboard shortcuts or where the keys are located. All functions are primarily based on

voice commands, thus making it very straightforward for any type of user to use this system.

CHAPTER 2

2. Literature survey

It is estimated that there are a total of 4.92 billion email accounts existing in 2017 and there will be approximately 5.59 billion accounts by the end of 2019[4]. It is also estimated that there are a total of 340.2 million smartphone users in India in the year 2017 [5]. This makes emails the most used kind of communication. The prevailing email systems don't give any means of feedback or Talkback service. The most common mail services that we tend to use in our day-to-day life cannot be used by visually challenged people. This is as a result of they do not offer any facility in order that the person in front will listen the content of the screen. As they cannot visualize what is already present on screen they cannot build out where to click in order to perform the required operations. [3] For a visually impaired person employing a computer or smart phone system for the first time isn't that convenient as it is for a standard user even though it is user friendly. Though there are several screen readers offered then also these individuals face some minor difficulties. Screen readers speak out whatever content is there on the screen and to perform the particular actions the person will have to use keyboard shortcuts because mouse location cannot be detected by the screen readers. This means 2 things; one that the user cannot make use of mouse pointer as it is fully inconvenient if the pointer location cannot be derived and second that user should be versed with the keyboard on wherever each and every key is placed. A user who is new to computer will therefore not use this service as they're not conscious of the key locations. Also, there are some difficulties faced by visually impaired people when using smartphone systems. All these are some drawbacks of the present system that we are going to overcome within the application we are developing.

The project offers a voice message advancement program that visually impaired individuals can use to effectively get to mixed media administrations, like email.

Pros: System. However long the Web framework is utilized appropriately, it very well may be supposed to be completely open.

Cons: All capacities are upheld and can be handily made with a solitary mouse snap,

and clients of any style can without much of a stretch use it.

Author: Ruchi Khedekar Oct -2019

In this article, we are proposing a program that will help the outwardly hindered to get to email benefits all the more successfully.

Pros: Client show layout is constructed utilizing Adobe Dreamweaver CS3.

Cons: Likewise utilize the mouse to snap to track down the relating administration.

Author: Prof. Ila Sawant April 2019

This article intends to improve the email framework that can assist dazzle individuals with utilizing the application to convey in any event, when there is no noticeable inability.

Pros: Framework totally depends on the given voice input which is intuitive, this helps the user to easily understand the framework and it is proficient.

Cons: Use mouse usefulness rather than console to change voice over to message.

AUTHOR	YEAR OF PUBLICATION	DESCRIPTIONS	PROS	CONS
Ms. <u>Archana A. Nikose</u>	March 2019	We provide voice mail architectural system that can be utilized by blind people to access multimedia functions such as e-mail efficiently.	system. A web system is claimed be perfectly accessible provided that it is used with efficiency	All functions are supported easy mouse click operations creating it terribly straight forward for any style of user to use this system.
Ruchi Khedekar	Oct -2019	In this paper we have proposed a system which will help the visually impaired people to access email services efficiently.	The User Interface Design is designed using Adobe Dreamweaver CS3.	use mouse clicks accordingly to get the respective services offered.
Prof. Ila Sawant	April 2019	This paper aims at developing an email system that will help even a native visually empaired person to use the services for communication without previous training.	The system is completely based on interactive voice response which will make it user friendly and efficient to use.	make use of mouse operation instead of keyboard for speech to text converter.

CHAPTER 3

3.AIM AND SCOPE

This project aims at developing an email system that will help even a naïve, visually impaired person to use the services for communication without previous training. The system

does not require the use of keyboard. Instead it will work only on mouse operations and speech conversion to text. This system can also be used by any normal person, for instance,

by someone who is unable to read.

CHAPTER 4

4.EXPERIMENTAL OR MATERIALS AND METHODS

The complete system is based on voice prompt and clicks events. When using this system the computer will be prompting the user to perform specific operations to avail respective services and if the user needs to access the respective services then he/she needs to perform that operation. One of the major advantages of this system is that for the most part, the user won't require the use of keyboard. All operations will be based on mouse click events. Now the question that arises is that how will the blind users find location of the mouse pointer. As particular location cannot be tracked by the blind user, therefore the user has to traverse the mouse throughout the screen from top to bottom and then left to right. This system will be perfectly accessible to all types of users as it is just based on simple mouse clicks and there is no need to remember keyboard shortcuts. Also because of this facility those who cannot read need not worry as they can listen to the prompting done by the system and perform respective actions. The general design architecture of the system depicts the interaction of the subsystems

an interactive chat bot has been implemented which runs through voice commands. After developing chatbot we have created module for sending mail through smtplib library here we can access many features like Cc, Subject, Text entirely through voice commands.

Here chatbot has many commands to run web applications such as YouTube, google, weather in current city, search information in google engine, search about a person have a brief description about 3-5 lines spelled through voice.made a user interface where voice commands are displayed in message box

4.1 PROJECT IMPLEMENTATION:

4.1.1 SMTPLIB: - A basic mail move convention. The SMTPLIB module characterizes a SMTP customer meeting thing, which can be utilized to send email to any Internet gadget with a SMTP audience.

4.1.2 PyAudio: - The binding for port audio is provided by Py audio and cross-platform audio input and output library. We can record and play audio on different platforms using python.

4.1.3 Pytsx3: - pytsx3 is a library for changing over text into a Python. In contrast different libraries, it can work disconnected and is viable with Python 2

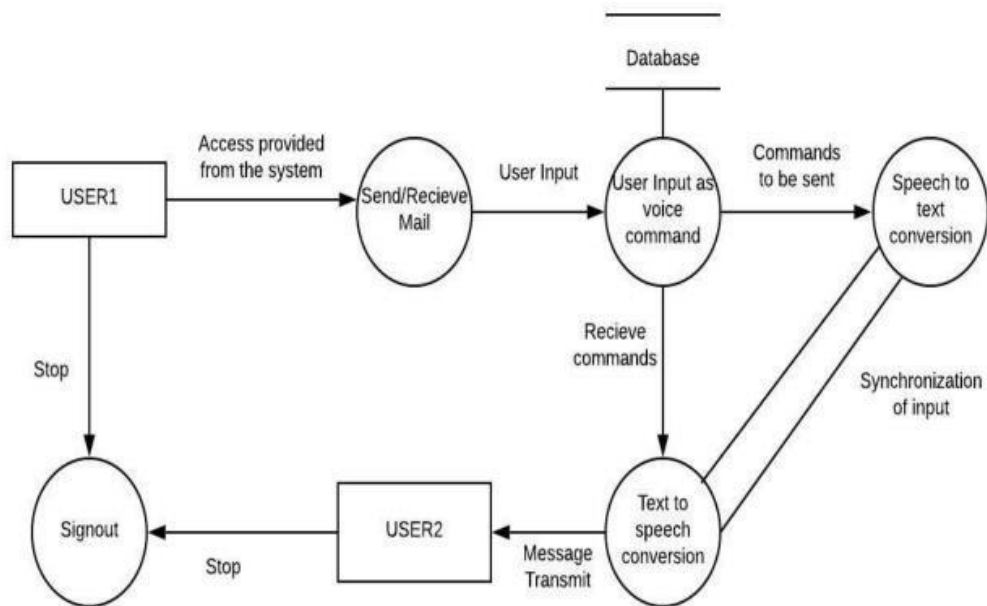


Fig.no-4.1 System architechure

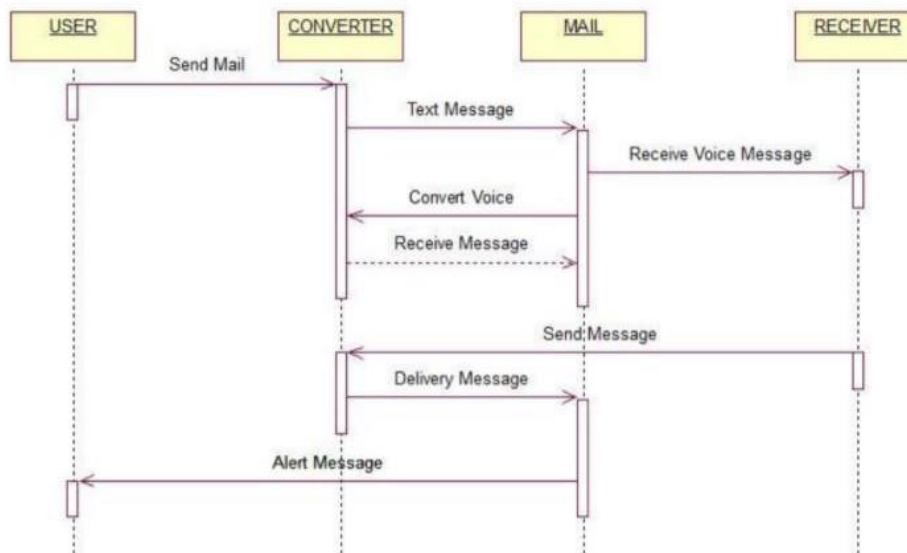


Fig no.-4.2 Flow chart

CHAPTER 5

5.RESULTS AND DISCUSSIONS:

Once the user logs into his account, he will be directed to Home Page. Home Page consists of buttons for several different mail services like Inbox, Compose, Sent and Logout. If he wants to listen to the mails he has received, he needs to click on “Inbox” button, or if he wants to compose his message and send, he needs to click on “Compose” button, or if he wants to listen to the mail he has recently sent, he needs to click on “Sent” button. If the user wishes to logout of his account, then he can do the same by clicking on “Logout” button.

Home page is shown in figure 2 below. Figure 2. Home Page The application is designed in such a way that it succeeds in implementing the basic features of mail service, based almost entirely on mouse clicks. Unlike current system, this system focuses more on user friendliness of all types of people including normal people visually impaired people as well as illiterate people

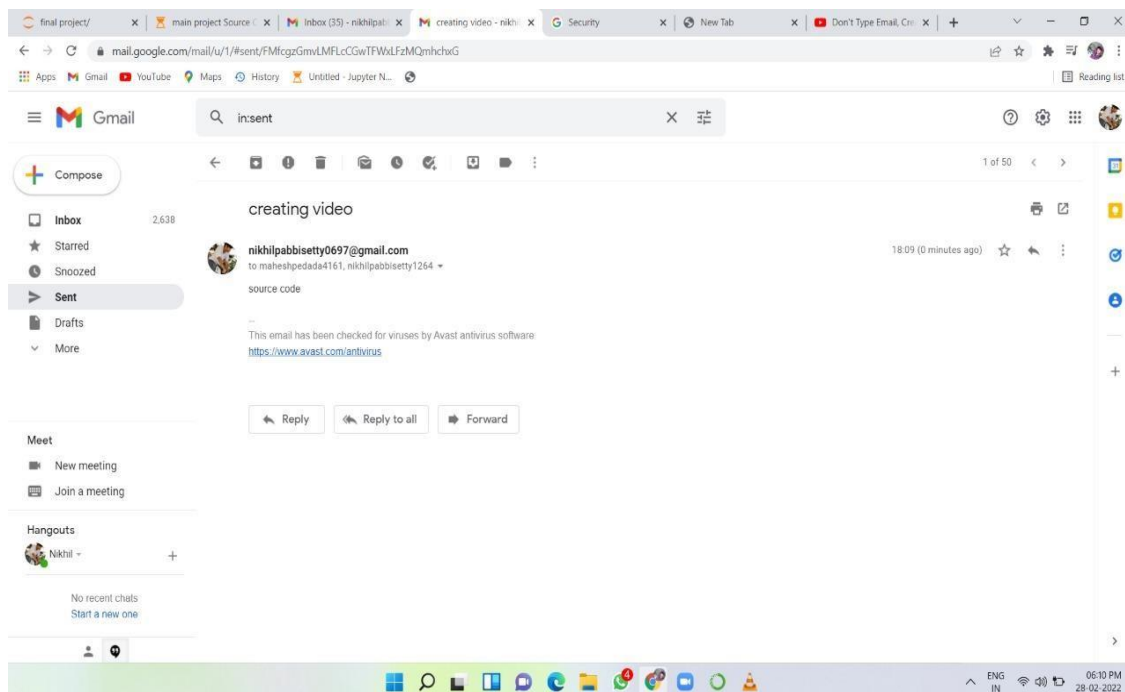


Fig.no-5.1-ouput 1 sent mail in outbox

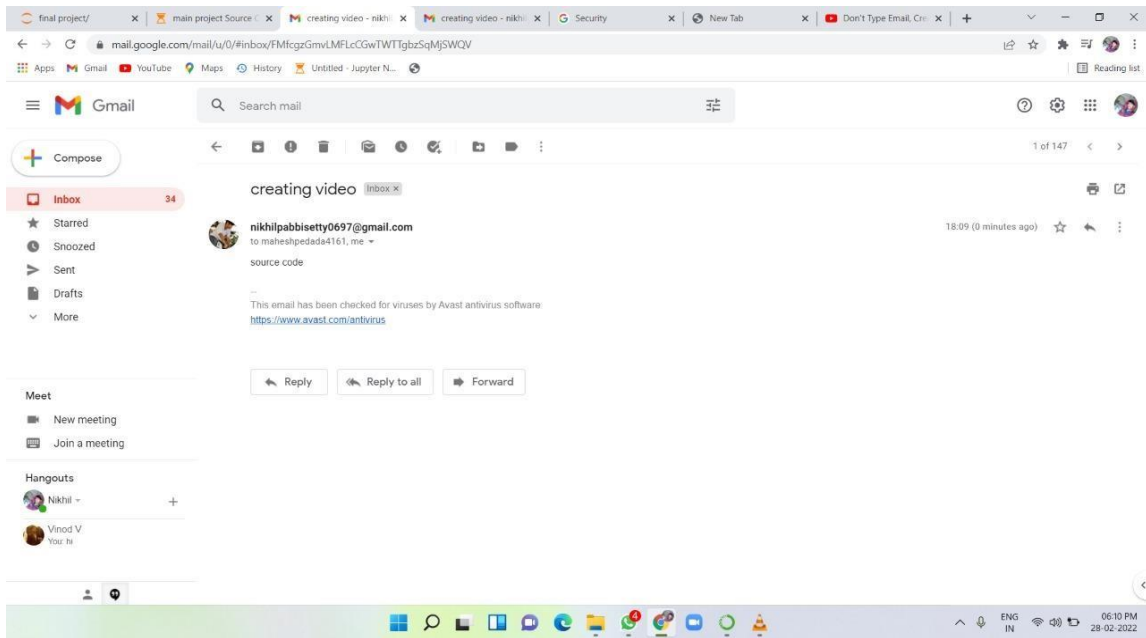


Fig. no-2-Mail sent in sent box

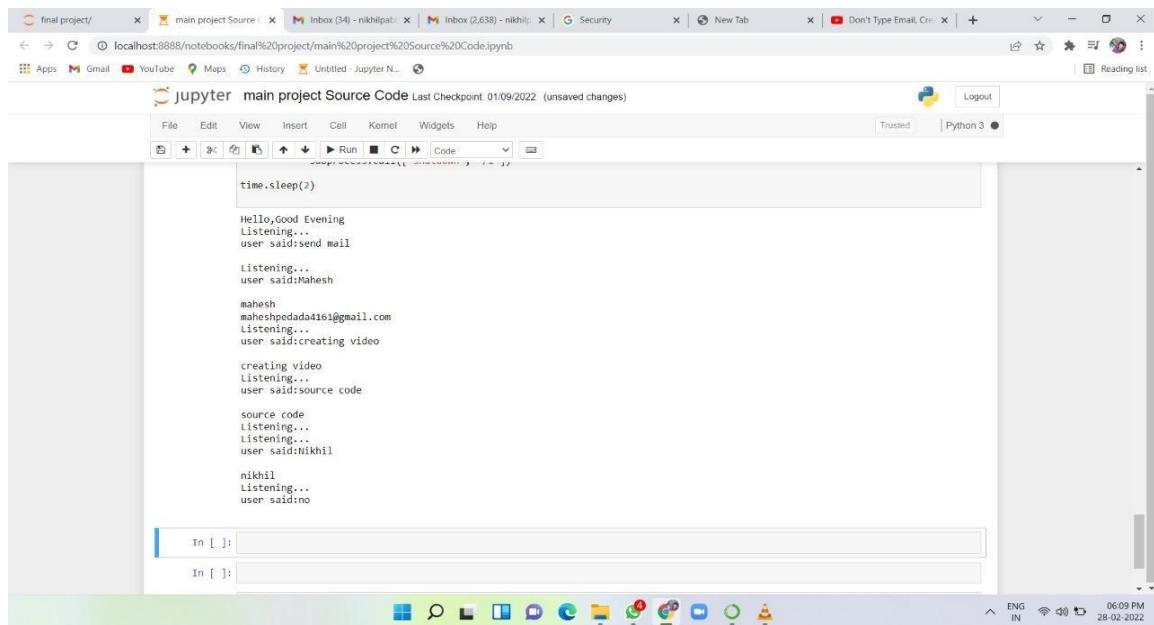


Fig.no-3 screenshot of code compilation

CHAPTER 6

6.SUMMARY AND CONCLUSION:

In this project we have planned a system which can facilitate the visually impaired individuals to access email

services efficiently. This system can help in overcoming some drawbacks that were earlier faced by the blind

individuals in accessing emails. We've eliminated the thought of using keyboard altogether with screen readers

which can help reducing the cognitive load of remembering keyboard operations.

Conjointly any user who will not

grasp the location of keys on the keyboard would like not worry as keyboard usage is eliminated. The user solely has

to follow the directions given by the system and use voice commands consequently to get the several services

offered. Other than this the user may have to be requested to feed info through voice inputs whenever required.

This e-mail system can be used by any user of any age group with ease of access. It has feature of speech to text as well as text to

speech with speech reader which makes designed system to be handled by visually impaired person as well as blind person.

The main reason for developing this system described in the paper is to create ease for visually impaired people to use the most pervasive form of communication in

today's world; email. This mail system will help overcoming all the minor difficulties which are faced by visually impaired people as the system works on vocal

abilities. This will reduce the software load of using screen readers and automatic speech recognizer and also the user's cognitive load of remembering keyboard

shortcuts. The system will be guiding the user as to what operation needs to be performed for obtaining desired results through IVR thus making the system much user

friendly. The system developed now will be working only on desktops. As use of mobile phones is emerging as a trend today there is a scope to include this facility as an

application in mobile phones also. Also security features to be implemented during login phase can be revised to make the system more secure.

This mail system based on voice is very effective and helpful for people who are visually impaired. This system also has the ability to convert speech to text and text to speech with the help of speech reader which is useful for blind people as well as visually impaired person.

The application will detect the voice commands of user and with the help of interactive voice response user can interact with the application easily and efficiently. The user only needs to speak the predefined keywords for each action to take place such as Login, Send, CC, BCC, Delete, etc.

To make the application more secure encryption and decryption algorithms can be used to increase the users trust while logging in. The algorithm can be made smart.

SOURCE CODE:

```
#!/usr/bin/env python
```

```
# coding: utf-8
```

```
# In[1]:
```

```
import speech_recognition as sr
```

```
import pyttsx3
```

```
import datetime
```

```
import wikipedia
```

```
import webbrowser
```

```
import os
```

```
import time
```

```
import subprocess
```

```
import wolframalpha
```

```
import json
import requests
import smtplib
from email.message import EmailMessage
```

```
# In[2]:
```

```
engine=pyttsx3.init('sapi5')
voices=engine.getProperty('voices')
engine.setProperty('voice',voices[1].id)
rate=engine.getProperty('rate')
engine.setProperty('rate',160)
```

```
# In[3]:
```

```
def speak(text):
    engine.say(text)
    engine.runAndWait()
```

```
# In[4]:
```

```
def wishMe():
    hour=datetime.datetime.now().hour
    if hour>=0 and hour<12:
        speak("Hello,Good Morning")
```

```
    print("Hello,Good Morning")
elif hour>=12 and hour<18:
    speak("Hello,Good Afternoon")
    print("Hello,Good Afternoon")
else:
    speak("Hello,Good Evening")
    print("Hello,Good Evening")
```

In[5]:

```
def takeCommand():
    r=sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        speak("listening...")
        audio=r.listen(source)

    try:
        statement=r.recognize_google(audio,language='en-in')
        print(f"user said:{statement}\n")

    except Exception as e:
        speak("Pardon me,Say again")
        return "None"
    return statement.lower()
```

In[6]:

```

def send_email(*args):
    server = smtplib.SMTP('smtp.gmail.com', 587)
    server.starttls()
    server.login('maheshpedada4161@gmail.com', 'mahesh#2811')
    email = EmailMessage()
    email['From'] = 'maheshpedada4161@gmail.com'
    email['To'] = args[0]
    email['Subject'] = args[1]
    if len(args)==4:
        email['Cc']=email_list[cc]
    email.set_content(args[2])
    server.send_message(email)

```

In[]:

In[7]:

```

email_list =
{"Mahesh":"maheshpedada4161@gmail.com","Nikhil":"nikhilpabbisetty1264@gmail.c
om","personal":"maheshmahe9196@gmail.com"}
def get_email_info():
    speak('To Whom you want to send email')
    name =takeCommand()

```

```

print(name)
if name in email_list:
    receiver = email_list[name]
    print(receiver)
else:
    speak("Your Sender Mail is not in Contact. .. Can You type mail")
    receiver = input()
    print(receiver)
speak('What is the subject of your email?')
subject = takeCommand()
print(subject)
speak('Tell me the text in your email')
message = takeCommand()
print(message)
speak('You Want to add any Cc.that is Carbon copy,then add Mail for Carbon copy')
ccres=takeCommand()
if "no" in ccres:
    send_email(receiver,subject,message)
else:
    cc = takeCommand()
    print(cc)
    cc=email_list[cc]
    send_email(receiver,subject,message,cc)
speak('Hey,Your email is sent')
speak('Do you want to send more email?')
send_more = takeCommand()
if 'yes' in send_more:
    get_email_info()
else:
    speak("ThankYou,.. Now we are comming out of gmail")

```

```
# In[8]:
```

```
wishMe()
```

```
if __name__ == '__main__':
```

```
    speak("Tell me how can I help you now?")
```

```
    while True:
```

```
        statement = takeCommand().lower()
```

```
        if statement == 0:
```

```
            speak("I am not able to hear... can you say again")
```

```
            statement = takeCommand().lower()
```

```
        if "good bye" in statement or "ok bye" in statement or "stop" in statement:
```

```
            speak('your personal assistant is shutting down,Good bye')
```

```
            print('your personal assistant is shutting down,Good bye')
```

```
            break
```

```
        if "send mail" in statement or "send gmail" in statement:
```

```
            get_email_info()
```

```
            time.sleep(3)
```

```
        if 'wikipedia' in statement:
```

```
            speak('Searching Wikipedia ..')
```

```
            statement = statement.replace("wikipedia", "")
```

```
            results = wikipedia.summary(statement, sentences=3)
```

```
            speak("According to Wikipedia")
```

```
            print(results)
```

```
            speak(results)
```

```
            time.sleep(3)
```

elif 'open youtube' in statement:

```
webbrowser.open_new_tab("https://www.youtube.com")
speak("youtube is open now")
speak('your personal assistant is shutting down,Good bye')
break
```

elif 'play' in statement:

```
song=command.replace('play','")
talk('Playing')
print(song)
pywhatkit.playonyt(song)
break
```

elif 'open google' in statement:

```
webbrowser.open_new_tab("https://www.google.com")
speak("Google chrome is open now")
speak('your personal assistant is shutting down,Good bye')
break
```

elif 'open gmail' in statement:

```
webbrowser.open_new_tab("gmail.com")
speak("Google Mail open now")
time.sleep(3)
```

elif "weather" in statement:

```
api_key="8ef61edcf1c576d65d836254e11ea420"
base_url="https://api.openweathermap.org/data/2.5/weather?"
speak("whats the city name")
city_name=takeCommand()
```

```

complete_url=base_url+"appid="+api_key+"&q="+city_name
response = requests.get(complete_url)
x=response.json()
if x["cod"]!="404":
    y=x["main"]
    current_temperature = y["temp"]
    current_humidiy = y["humidity"]
    z = x["weather"]
    weather_description = z[0]["description"]
    speak(" Temperature in kelvin unit is " +
        str(current_temperature) +
        "\n humidity in percentage is " +
        str(current_humidiy) +
        "\n description " +
        str(weather_description))
    print(" Temperature in kelvin unit = " +
        str(current_temperature) +
        "\n humidity (in percentage) = " +
        str(current_humidiy) +
        "\n description = " +
        str(weather_description))

else:
    speak(" City Not Found ")

```

elif 'time' in statement:

```

strTime=datetime.datetime.now().strftime("%H:%M:%S")
speak(f"the time is {strTime}")
time.sleep(3)

```

elif "who made you" in statement or "who created you" in statement or "who discovered you" in statement:

```
    speak("I was built by Mahesh and Nikhil ")
    print("I was built by Mahesh and Nikhil")
```

elif "open stackoverflow" in statement:

```
    webbrowser.open_new_tab("https://stackoverflow.com/login")
    speak("Here is stackoverflow")
    break;
```

elif 'news' in statement:

```
    news = "https://timesofindia.indiatimes.com/home/headlines"
    webbrowser.open_new_tab("https://timesofindia.indiatimes.com/home/headlines")
    speak('Here are some headlines from the Times of India,Happy reading')
    break;
```

elif 'search' in statement:

```
    statement = statement.replace("search", "")
    webbrowser.open_new_tab(statement)
    break;
```

elif "log off" in statement or "sign out" in statement:

```
    speak("Ok , your pc will log off in 10 sec make sure you exit from all applications")
    subprocess.call(["shutdown", "/l"])
```

```
time.sleep(2)
```

```
# In[ ]:
```

In[]:

REFERENCES:

- [1] Jagtap Nilesh, Pawan Alai, Chavhan apnil and Bendre M.R. "Voice Based System in Desktop and Mobile Devices for Blind People". In International Journal of Emerging Technology and Advanced Engineering (IJETAEE), 2014 on Pages 404-407 (Volume 4, issue 2).
- [2] G. Shoba, G. Anusha, V. Jeevitha, R. Shanmathi. "AN Interactive Email for Visually Impaired". In International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), 2014 on Pages 5089-5092. (Volume 3, Issue 1).
- [3] Ummuhanyisifa U., Nizar Banu P K, "Voice Based Search Engine and Web page Reader". In International Journal of Computational Engineering Research (IJCER). Pages 1-5.
- [4] T. Dasgupta and A. Basu. A speech enabled Indian language text to braille transliteration system. In Information and Communication Technologies and Development (ICTD), 2009 International Conference on, pages 201–211. IEEE, 2009
- [5] R. Ghose, T. Dasgupta, and A. Basu. Architectur of a web browser for visually handicapped people. In Students' Technology Symposium (TechSym), 2010 IEEE, pages 325 –329, April 2010
- [6] T. Lauwers, D. Dewey, N. Kalra, T. Stepleton, and M.B. Dias. Iterative design of a braille writing tutor to combat illiteracy. Information and Communication Technologies and Development, 2007. ICTD 2007. International Conference on, pages 1–8. IEEE,

2007.

- [7] A. King, G. Evans, and P. Blenkhorn. Webbie: a web browser for visually impaired people. In Proceedings of the 2nd Cambridge Workshop on Universal Access and Assistive Technology, Springer-Verlag, London, UK, pages 35–44. Citeseer, 2004
- [8] Verma, R. Singh, A.K. Singh, V. Yadav, and A. Pandey. An enhanced speech-based internet browsing system for visually challenged. In Computer and Communication Technology (ICCCCT), 2010 International Conference on, pages 724–730. IEEE, 2010.
- [9] Eddie Chi-Wah Lau “Simple Bus Tracking System”, Journal of Advanced Computer Science and Technology Research, Vol.3 No.1, March 2013, 60-70.
- [10] Ahmed ElShafee, Mahmoud ElMenshawi and Mena Saeed “Integrating Social Network Services with Vehicle Tracking Technologies”, International Journal of Advanced Computer Science and Applications, Vol. 4, No. 6, 2013.
- [11] Lin, W.-H. and J. Zeng. “Experimental Study on Real-Time Bus Arrival Time Prediction with GPS Data”. In Transportation Research Record: Journal of the Transportation Research Board, No. 1666, TRB, National Research Council, Washington, D.C., 1999, pp. 1019.
- [12] Kidwell, B. “Predicting Transit Vehicle Arrival Times.” GeoGraphics Laboratory, Bridgewater State College, Bridgewater, Mass., 2001.
- [13] Fleischer, P.B.; Nelson, A.Y.; Sowah, R.A.; Bremang, A., “Design and development of GPS/GSM based vehicle tracking and alert system for commercial inter-city buses”, Adaptive Science & Technology (ICAST), 2012 IEEE 4th International Conference on, vol., no., pp.1,6, 25-27 Oct. 2012.
- [14] Muruganandham and P. R. Mukesh (2010) “Real time Web based vehicle tracking using GPS” World academy of science, Engineering and Technology.
- [15] El-Medany, W.; AlOmary, A.; AlHakim, R.; Al-Irhayim, S.; Nusaif, M., “A Cost Effective Real-Time Tracking System Prototype Using Integrated GPS/GPRS Module”, Wireless and Mobile Communications (ICWM).

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Submission date: 03-Mar-2022 08:09PM (UTC-0600)

Submission ID: 1770634084

File name: SMART_EMAIL_ASSISTANT_Paper.docx (214.11K)

Word count: 1883

Character count: 10634

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Keywords: Voice based e-mail, blind people, and mouse click.

ABSTRACT -- *The Internet is perhaps the main types of extravagance in regular daily existence. Everybody utilizes realities and data on the Internet. Daze individuals, then again, will think that its hard to get to message assets. The improvement of PC programs has paved up plenty chances for the outwardly users. Contingent upon the visual climate that reacts to sound, screen perusers can assist many visually impaired individuals with getting to Internet programs. This venture presents a voice message program, which can be utilized by daze individuals to effortlessly get to email. Having part in research encourages daze people to receive and send the messages related to voice-based instantly. This can be done with the help of computer assistance in their own or home language.*

INTRODUCTION:

Web correspondence innovation furnishes us with freedoms to speak with the world through email, video conferencing, texting, and so forth. However, screens can't utilize these zones, as they all require visual keenness.

This task presents an application that is broadly utilized by dazzle individuals to get phone message, and numerous other web applications that run by voice orders.

The run of the mill composing velocity of common individuals is 40 words each moment, while the average composing rate of visually impaired individuals is just 32 words.

LITERATURE SURVEY:

Author: Ms. Archana A. Nikos, March 2019

We offer a voice message advancement program that visually impaired individuals can use to effectively get to mixed media administrations, like email.

Pros: System. However long the Web framework is utilized appropriately, it very well may be supposed to be completely open.

Cons: All capacities are upheld and can be handily made with a solitary mouse snap, and clients of any style can without much of a stretch use it.

Author: Ruchi Khedekar Oct -2019

In this article, we are proposing a program that will help the outwardly hindered to get to email benefits all the more successfully.

Pros: Client show layout is constructed utilizing Adobe Dreamweaver CS3.

Cons: Likewise utilize the mouse to snap to track down the relating administration.

Author: Prof. Ila Sawant April 2019

This article intends to improve the email framework that can assist dazzle individuals with utilizing the application to convey in any event, when there is no noticeable inability.

Pros: Framework totally depends on the given voice input which is intuitive, this helps the user to easily understand the framework and it is proficient.

Cons: Use mouse usefulness rather than console to change voice over to message.

OBJECTIVE:

The primary motivation behind our application is to assist dazzle individuals with sending and get mail without the assistance of any other individual.

Users need to talk pre-characterized watchwords to play out each undertaking, for example, login, send, cc, bcc, erase, and so forth

Along these lines, it will be a lot simpler for undetectable individuals to discover the mail. In this way, the need to depend on others to utilize email will be diminished

The total program depends on SIT (Speech-To-Text), TTS (Text-To-Speech), and IVR (Interactive Voice Response).

EXISTING SYTEM:

By 2014, an aggregate of 4.1 billion email accounts were made, and before the finish of 2018, it is assessed that there will be 5.2 billion records. [4] This makes email the most broadly utilized strategy

for correspondence. Individuals confronting visual difficulties can't utilize the most well-known postal administrations we use in our everyday lives. This is said on the grounds that they did not give any area to key work force to tune in to the screen content. Since they were not able to perceive what's now on the screen, they will not be able to sort out where to snap the play out of the ideal undertaking. [3] For individuals who are confronting the test of utilizing a PC interestingly, albeit this is not difficult to utilize, it's anything but a simple errand for customary clients. Despite the fact that there are many screens peruses, the troubles these individuals face are negligible. Screen peruses read anything on the screen, and in light of the fact that screen peruses can't follow mouse space, individuals need to utilize console alternate ways to play out these activities. This implies two things; if the cursor position isn't followed, a client can utilize the mouse pointer since it won't be hindered by any stretch of the imagination, and besides, the client ought to be acquainted with the console where each key is found. Consequently, another client on the PC can't utilize this help since it doesn't have a clue about the key area. Another backlink utilized is that screen peruses read the substance in a successive way, so clients can just make screen content in fundamental HTML design as it were. Subsequently, a recently evolved website page that doesn't follow this worldview will make the webpage simpler to utilize, and will just motivation more issues for certain individuals. All these are a portion of the issues that the current framework will defeat in the framework are creating

PROPOSED SYSTEM:

The arranged framework depends on another framework and isn't pretty much as clear as the available mail framework. In improving admittance to the arranging framework, an indestructible component of the past important in the mind. The current program can't furnish you with this comfort. Along these lines, the neighborhood advancement pattern of the current framework is totally conflicting to the framework. As opposed to the current framework

The arrangement puts more accentuation on client straightforwardness for unpracticed clients, and the arrangement centers around youngsters with different kinds of clients, including the outwardly weakened and the outwardly debilitated and unskilled. The entire construction depends on IVR's intelligent voice reaction. In the event that you utilize this program, the PC will advise the customer to play out a particular errand to get the suitable help, and if the customer needs to get to the fitting assistance, they need to play out the capacity. Perhaps the main advantages of this program is t the

client doesn't have to use a console. All exercises will be available on voice measures.

Advantages:

The mail server can be used with ease and effectively.

Disabled people could operate hassle free.

It is accurate and highly efficiency.

METHODOLOGY:

an interactive chat bot has been implemented which runs through voice commands.

After developing chatbot we have created module for sending mail through smtplib library here we can access many features like Cc, Subject, Text entirely through voice commands.

Here chatbot has many commands to run web applications such as YouTube, google, weather in current city, search information in google engine, search about a person have a brief description about 3-5 lines spelled through voice.

made a user interface where voice commands are displayed in message box.

ARCHITECTURE DIAGRAM:

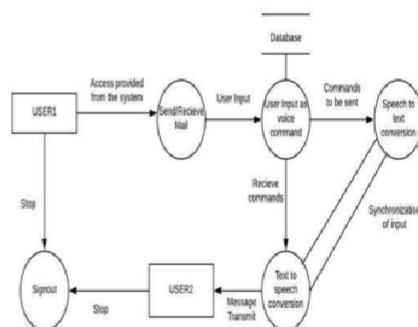


FIG:1 ARCHITECTURE DIAGRAM

PROJECT IMPLEMENTATION:

SMTPLIB: - A basic mail move convention. The SMTPLIB module characterizes a SMTP customer meeting thing, which can be utilized to send email to any Internet gadget with a SMTP audience.

PyAudio: - The binding for port audio is provided by Py audio and cross-platform audio input and output library. We can record and play audio on different platforms using python.

Pytsx3: - pytsx3 is a library for changing over text into a Python. In contrast different libraries, it can work disconnected and is viable with Python 2 and

Speech acknowledgment: - Lords for discourse acknowledgment, uphold for various web crawlers and APIs both on the web and disconnected.

Python

- I. Mediator Modules in action.
- II. Extensive uphold Libraries.
- III. Open Source and Community Development.
- IV. Productivity with Speed.

FLOW CHART:

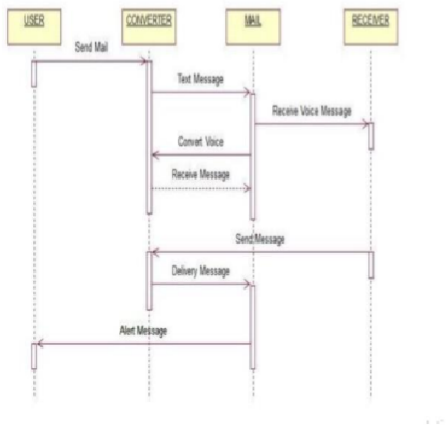


FIG:2 SEQUENCE DIAGRAM

FUTURE WORK AND CONCLUSION:

This mail system based on voice is very effective and helpful for people who are visually impaired. This system also has the ability to convert speech to text and text to speech with the help of speech reader which is useful for blind people as well as visually impaired person.

needs t

To make the application more secure encryption and decryption algorithms can be used to increase the users trust while logging in. The algorithm can be made smart.

OUTPUT AND SCREENSHOTS:

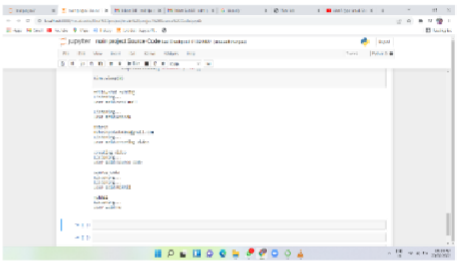


FIG:3 OUTPUT

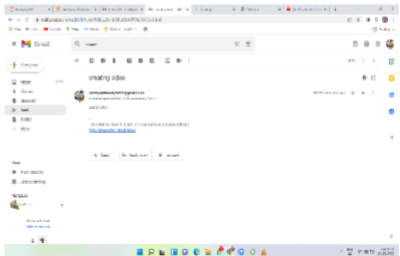


FIG:3.1 sent mail to receiver

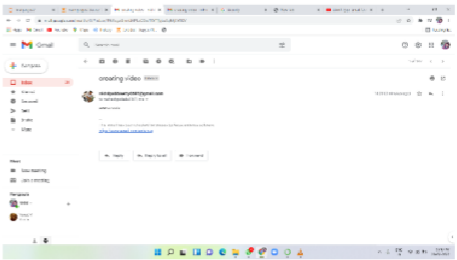
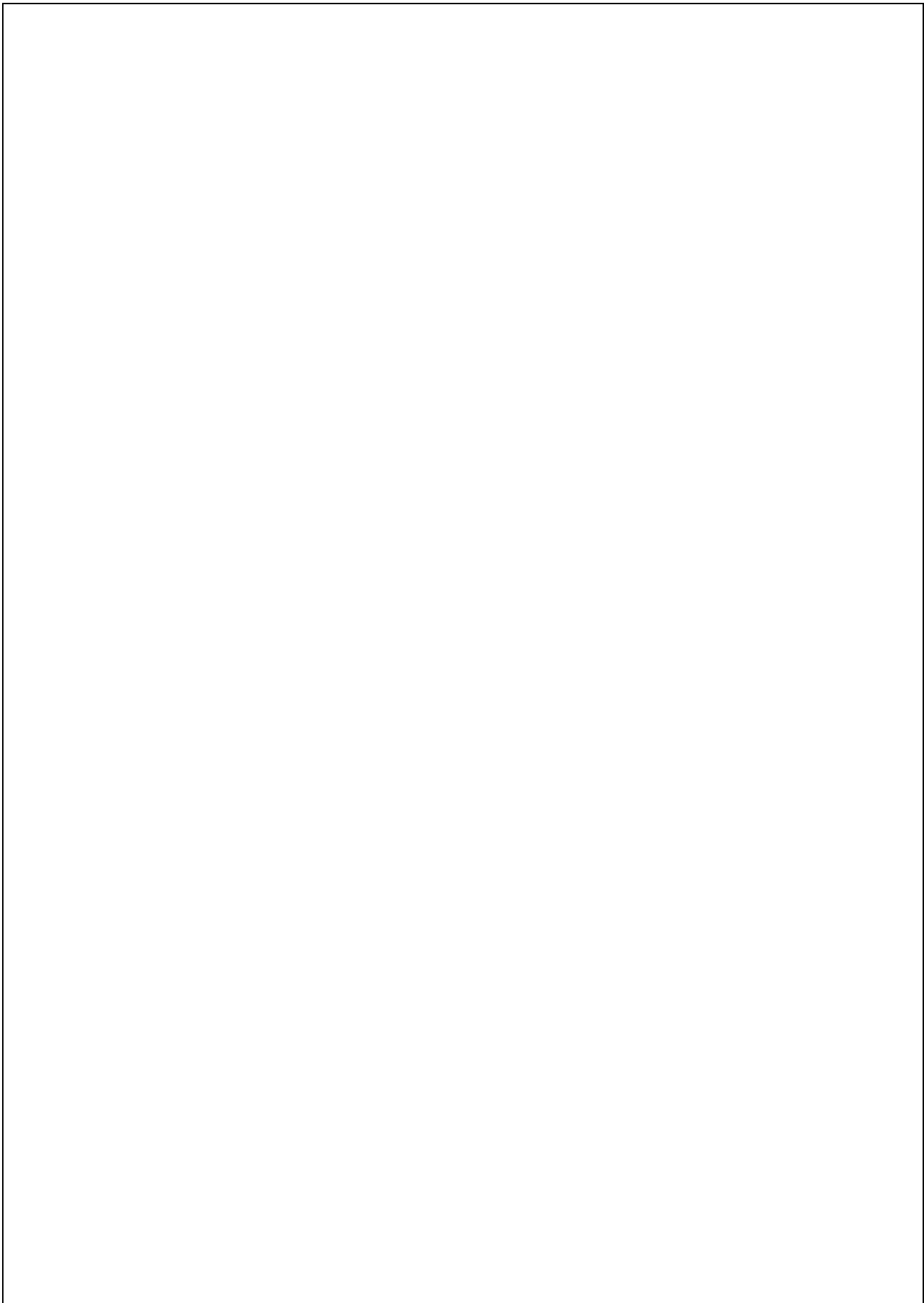


Fig:3.2 output

REFERENCES:

- [1] 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 (IJETAEE), 2014 on Pages 404-407 (Volume 4, issue 2).
- [2] G. Shoba, G. Anusha, V. Jeevitha, R. Shanmathi. "AN Interactive Email for Visually Impaired". In International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), 2014 on Pages 5089-5092. (Volume 3, Issue 1).
- [3] Ummuhanyisifa U., Nizar Banu P K, "Voice Based Search Engine and Web page Reader". In International Journal of Computational Engineering Research (IJCER). Pages 1-5.
- [4] T. Dasgupta and A. Basu. A speech enabled Indian language text to braille transliteration system. In Information and Communication Technologies and Development (ICTD), 2009 International Conference on, pages 201–211. IEEE, 2009
- [5] R. Ghose, T. Dasgupta, and A. Basu. Architectur of a web browser for visually handicapped people. In Students' Technology Symposium (TechSym), 2010 IEEE, pages 325 –329, April 2010
- [6] T. Lauwers, D. Dewey, N. Kalra, T. Stepleton, and M.B. Dias. Iterative design of a braille writing tutor to combat illiteracy. Information and Communication Technologies and Development, 2007. ICTD 2007. International Conference on, pages 1–8. IEEE, 2007.
- [7] A. King, G. Evans, and P. Blenkhorn. Webbie: a web browser for visually impaired people. In Proceedings of the 2nd Cambridge Workshop on Universal Access and Assistive Technology, Springer-Verlag, London, UK, pages 35–44. Citeseer, 2004
- [8] Verma, R. Singh, A.K. Singh, V. Yadav, and A. Pandey. An enhanced speech-based internet browsing system for visually challenged. In Computer and Communication Technology (ICCCT), 2010 International Conference on, pages 724–730. IEEE, 2010.
- [9] Eddie Chi-Wah Lau "Simple Bus Tracking System", Journal of Advanced Computer Science and Technology Research, Vol.3No.1, March 2013, 60-70.
- [10] Ahmed ElShafie, Mahmoud ElMenshawi and Mena Saeed "Integrating Social Network Services with Vehicle Tracking Technologies", International Journal of Advanced Computer Science and Applications, Vol. 4, No. 6, 2013.
- [11] Lin, W.-H. and J. Zeng. "Experimental Study on Real-Time Bus Arrival Time Prediction with GPS Data". In Transportation Research Record: Journal of the Transportation Research Board, No. 1666, TRB, National Research Council, Washington, D.C., 1999, pp. 1019.
- [12] Kidwell, B. "Predicting Transit Vehicle Arrival Times." GeoGraphics Laboratory, Bridgewater State College, Bridgewater, Mass., 2001.
- [13] Fleischer, P.B.; Nelson, A.Y.; Sowah, R.A.; Bremang, A., "Design and development of GPS/GSM based vehicle tracking and alert system for commercial inter-city buses", Adaptive Science & Technology (ICAST), 2012 IEEE 4th International Conference on, vol., no., pp.1,6, 25-27 Oct.2012.
- [14] Muruganandham and P.R. Mukesh (2010) "Real time Web based vehicle tracking using GPS" World academy of science, Engineering and Technology.
- [15] El-Medany, W.; AlOmary, A.; AlHakim, R.; Al-Irhayim, S.; Nusaif, M., "A Cost Effective Real-Time Tracking System Prototype Using Integrated GPS/GPRS Module", Wireless and Mobile Communications (ICWM)



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