Voice To Visual

Introduction

1. This project is a technology that allows voice recognition into systems. You can display the text on the LCD display.

2. We can use this project in the Public transport systems and for the circulars easily.

3. Worked with Raspberry pi3


Voice based LCD
Display Sys-VIT

```
import speech_recognition as sr

# Record Audio
r = sr.Recognizer()
with sr.Microphone() as source:
    print("Say something!")
    audio = r.listen(source)

# Speech recognition using Google Speech Recognition
try:
    # for testing purposes, we're just using the default API key
    # to use another API key, use `r.recognize_google(audio,
key="GOOGLE_SPEECH_RECOGNITION_API_KEY")`
    # instead of `r.recognize_google(audio)`
    print("You said: " + r.recognize_google(audio))
except sr.UnknownValueError:
    print("Google Speech Recognition could not understand audio")
except sr.RequestError as e:
    print("Could not request results from Google Speech Recognition service; {0}".format(e))
```

Modules Implemented

1. Programmed Using Python programming language
2. Input is microphone output is text on LCD
3. Used Agile model
4. Used Google Speech Recognition API

My Role

- As team leader I did the coding part