chatbot mini project

In [ ]:

```
import pyttsx3
import speech_recognition as sr #pip install speech_recognition
import datetime
#from .wikipedia import *
import os
import smtplib


engine = pyttsx3.init('sapi5')
voices = engine.getProperty('voices')
#print(voices[1].id)
engine.setProperty('voices',voices[0].id)#voices[0]-male voices[1]-female


def speak(audio):
    engine.say(audio)
    engine.runAndWait()

def wishme():
    hours=int(datetime.datetime.now().hour)
    if hours>=0 and hours<12:
        speak('good morning')
    elif hours>=12 and hours<18:
        speak('good afternoon')
    else:
        speak('good evening')
    speak('i am harsha chatbot my name is kittu please tell me how may i help you')
def takeCommand():
    #it takes microphone input from the user and returns string output

    r=sr.Recognizer()
    with sr.Microphone() as source:
        #print('listening....wait a sec')
        r.pause_threshold = 1
        audio = r.listen(source)

    try:
        #print('i am listening ')
        speak('speak now')
        query = r.recognize_google(audio, language='en-in')
        print(f'user said : {query}\n')

    except Exception as e:
        #print(e)
        #print('say that again please....')
        speak('wait a minute please say it again')
        return 'none'
    return query
def sendEmail(to, content):
    server = smtplib.SMTP('smtp.gmail.com',587)
    server.eclo()
    server.starttls()
    server.login('harshakittu9520@gmail.com','harsha@#123M')
    server.sendmail('harshakittu9520@gmail.com', to, content)
```

```
    server.close()

if __name__ == "__main__":
    wishme()
    while True:
        #if 1:
        query = takeCommand().lower()
        if 'kittu' in query:
            speak('hi harsha how are you now')
        elif 'what about you' in query:
            speak('yeah i am absolutely fine what about you')
        elif 'pavan' in query:
            speak('hi sir how are you now')
        elif  'narasimha' in query:
            speak('hi narasimha brother of harsha')
            speak('handsome man')
        elif 'ajay' in query:
            speak('number one attracter and flutting men')
        elif 'madusudhan' in query:
            speak('respected principal sir')
        elif 'c' in query:
            speak('c is a procedure oriented programming language')
        elif 'sk' in query:
            speak('hi sheshu kumar sir how are you now')
        elif 'computer' in query:
            speak('comonly used for technical and educational research')
        elif 'harsha' in query:
            speak('harsha is a very good boy')
        elif 'praveen' in query:
            speak('praveen is one of the brother of harsha')
        elif 'nag' in query:
            speak('nagarjuna is the one of the famous actor')
        elif 'kvsr' in query:
            speak('hi sir how are you now')
        elif 'nagendra' in query:
            speak('nagendra is the friend of harsha')

        elif 'open youtube' in query :
            webbrowser.open('youtube.com')
        elif 'open google' in query :
            webbrowser.open('google.com')
        elif 'open stack overflow' in query :
            webbrowser.open('stack overflow.com')
        elif 'open facebook' in query :
            webbrowser.open('facebook.com')
        elif 'play music' in query:
            music_dir = ''
            songs = os.listdir(music_dir)
            print(songs)
            os.startfile(os.path.join(music_dir, songs[0]))
        elif 'time' in query:
            strTime = datetime.datetime.now() . strftime("&H:&m:&s")
            speak(f'sir, the time is (strTime)')
        elif 'open code' in query:
            codepath =''
            os.startfile(codepath)
        elif 'open photo' in query:
            photopath = ' '
            os.startfile(photopath)
        elif 'email to friend ' in query:
```

```
            try:
                speak('what should i say')
                content = takeCommand()
                to = 'harshakittu9520@gmail.com'
                sendEmail(to, content)
                speak('email has been sent')
            except Exception as e:
                print(e)
                speak('sorry i am not able to send this email')
```

recognize the voice and speak again that to us whatever we say

In [ ]:
```
#nlp project
import speech_recognition as sr
import pyttsx3
import pyaudio

engine = pyttsx3.init('sapi5')
voices = engine.getProperty('voices')
#print(voices[1].id)
engine.setProperty('voices',voices[1].id)#voices[0]-male voices[1]-female



r=sr.Recognizer()

def SpeakText(command):
    #initialize the engine
    engine= pyttsx3.init()
    engine.say(command)
    engine.runAndWait()

while(1):
    try:
       with sr.Microphone() as source:
            print("wait for the collabaration")
            r.adjust_for_ambient_noise(source,1)
            print("start speaking")
            audio=r.listen(source)
            speech=r.recognize_google(audio)
            speech=speech.lower()

            print("did you say "+speech)
            SpeakText(speech)
    except sr.UnknownValueError:
       print("unknown error occured")
```

In [ ]:
```
#speech project
import speech_recognition as sr
import pyttsx3
```

```
r=sr.Recognizer()

def SpeakText(command):
    #initialize the engine
    engine= pyttsx3.init()
    engine.say(command)
    engine.runAndWait()

while(1):
    try:
       with sr.Microphone() as source:
            #print("wait for the collabaration")
            r.adjust_for_ambient_noise(source,0)
            #print("start speaking")
            SpeakText('are you ready speak now i will say it again whatever the conter
            SpeakText('start speaking')
            audio=r.listen(source)
            speech=r.recognize_google(audio)
            speech=speech.lower()
            SpeakText("recorded successfully")

            #print(speech)
            SpeakText(speech)
    except sr.UnknownValueError:
       print("unknown error occured")
```

Language translator

In [ ]:
```
#translator project different by voice
import googletrans
import speech_recognition as sr
import pyttsx3

#from tkinter import *
#creating window
#window = Tk()
#Title
#window.title('Grand Canyon')
#display attributes
#canvas = Canvas(window, width = 1000, height = 1000)
#canvas.pack()
#GIF in my_image variable
#Give the entire file address along with the file name and gif extension
#Use \\ in the address
#The image given by me is C:\\UserAdmin\\Device\\Desktop2\\canyon.gif
#myimage = PhotoImage(file="1.gif")
#canvas.create_image(101,101 , anchor = NW, image=myimage)


engine=pyttsx3.init()
recognizer=sr.Recognizer()

def speak(audio):
    engine.say(audio)
    engine.runAndWait()
def code(langcode):
```

```
    engine.say(langcode)
    engine.runAndWait()

with sr.Microphone() as source:
    print("wait for the callibarations")
    speak("wait for the collabarations")
    recognizer.adjust_for_ambient_noise(source,0)
    print("start speaking")
    speak("start speaking")
    audio=recognizer.listen(source)
   # speak("say it again")
    print("recorde successfully")
    speak("recorded successfully")

    speech=recognizer.recognize_google(audio)
    speech=speech.lower()
    print(speech)
    speak(speech)


def trans():
    print("translating")
    speak("translating")
    print(googletrans.LANGCODES)
    #speak("enter the languagae code given above whatever the language you want")
    with sr.Microphone() as codelang:
        code("tell me the language code whatever the language you want")
        langcode=recognizer.listen(codelang)
        speak("recorded successfully")
        speech1=recognizer.recognize_google(langcode)
        speech1=speech1.lower()
    #language=input("type the translation language code :").lower()
    #speak("enter the languagae code given above whatever the language you want")
    translator=googletrans.Translator()
    translation=translator.translate(text=speech,dest=langcode)
    print("translation :",translation.text)
    engine.setProperty("rate",120)
    engine.say(translation.pronunciation)
    engine.runAndWait()

trans()
```

In [ ]:

```
#translator project
import googletrans
from langdetect import detect
sentence = input(str("enter the sentence :"))
print(detect(sentence))
print(googletrans.LANGCODES)
language = input("type the translation language code :")
translator = googletrans.Translator()
translation = translator.translate(text=sentence,dest=language)
print("translation :",translation.text)
print(detect(translation.text))
```

In [ ]: