|  |
| --- |
| import speech\_recognition as sr |
|  | import smtplib |
|  | # import pyaudio |
|  | # import platform |
|  | # import sys |
|  | from bs4 import BeautifulSoup |
|  | import email |
|  | import imaplib |
|  | from gtts import gTTS |
|  | import pyglet |
|  | import os, time |
|  |  |
|  | #pyglet.lib.load\_library('avbin') |
|  | #pyglet.have\_avbin=True |
|  |  |
|  | #project: :. Project: Voice based Email for blind :. |
|  | # Author: Sayak Naskar |
|  |  |
|  | #fetch project name |
|  | tts = gTTS(text="Project: Voice based Email for blind", lang='en') |
|  | ttsname=("name.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  |  |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  |  |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  |  |
|  | #login from os |
|  | login = os.getlogin |
|  | print ("You are logging from : "+login()) |
|  |  |
|  | #choices |
|  | print ("1. composed a mail.") |
|  | tts = gTTS(text="option 1. composed a mail.", lang='en') |
|  | ttsname=("hello.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  |  |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  |  |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  |  |
|  | print ("2. Check your inbox") |
|  | tts = gTTS(text="option 2. Check your inbox", lang='en') |
|  | ttsname=("second.mp3") |
|  | tts.save(ttsname) |
|  |  |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  |  |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  |  |
|  | #this is for input choices |
|  | tts = gTTS(text="Your choice ", lang='en') |
|  | ttsname=("hello.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  |  |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  |  |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  |  |
|  | #voice recognition part |
|  | r = sr.Recognizer() |
|  | with sr.Microphone() as source: |
|  | print ("Your choice:") |
|  | audio=r.listen(source) |
|  | print ("ok done!!") |
|  |  |
|  | try: |
|  | text=r.recognize\_google(audio) |
|  | print ("You said : "+text) |
|  |  |
|  | 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)) |
|  |  |
|  | #choices details |
|  | if text == '1' or text == 'One' or text == 'one': |
|  | r = sr.Recognizer() #recognize |
|  | with sr.Microphone() as source: |
|  | print ("Your message :") |
|  | audio=r.listen(source) |
|  | print ("ok done!!") |
|  | try: |
|  | text1=r.recognize\_google(audio) |
|  | print ("You said : "+text1) |
|  | msg = text1 |
|  | 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)) |
|  |  |
|  | mail = smtplib.SMTP('smtp.gmail.com',587) #host and port area |
|  | mail.ehlo() #Hostname to send for this command defaults to the FQDN of the local host. |
|  | mail.starttls() #security connection |
|  | mail.login('emailID','pswrd') #login part |
|  | mail.sendmail('emailID','victimID',msg) #send part |
|  | print ("Congrates! Your mail has send. ") |
|  | tts = gTTS(text="Congrates! Your mail has send. ", lang='en') |
|  | ttsname=("send.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  | mail.close() |
|  |  |
|  | if text == '2' or text == 'tu' or text == 'two' or text == 'Tu' or text == 'to' or text == 'To' : |
|  | mail = imaplib.IMAP4\_SSL('imap.gmail.com',993) #this is host and port area.... ssl security |
|  | unm = ('your mail or victim mail') #username |
|  | psw = ('pswrd') #password |
|  | mail.login(unm,psw) #login |
|  | stat, total = mail.select('Inbox') #total number of mails in inbox |
|  | print ("Number of mails in your inbox :"+str(total)) |
|  | tts = gTTS(text="Total mails are :"+str(total), lang='en') #voice out |
|  | ttsname=("total.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  |  |
|  | #unseen mails |
|  | unseen = mail.search(None, 'UnSeen') # unseen count |
|  | print ("Number of UnSeen mails :"+str(unseen)) |
|  | tts = gTTS(text="Your Unseen mail :"+str(unseen), lang='en') |
|  | ttsname=("unseen.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  |  |
|  | #search mails |
|  | result, data = mail.uid('search',None, "ALL") |
|  | inbox\_item\_list = data[0].split() |
|  | new = inbox\_item\_list[-1] |
|  | old = inbox\_item\_list[0] |
|  | result2, email\_data = mail.uid('fetch', new, '(RFC822)') #fetch |
|  | raw\_email = email\_data[0][1].decode("utf-8") #decode |
|  | email\_message = email.message\_from\_string(raw\_email) |
|  | print ("From: "+email\_message['From']) |
|  | print ("Subject: "+str(email\_message['Subject'])) |
|  | tts = gTTS(text="From: "+email\_message['From']+" And Your subject: "+str(email\_message['Subject']), lang='en') |
|  | ttsname=("mail.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  |  |
|  | #Body part of mails |
|  | stat, total1 = mail.select('Inbox') |
|  | stat, data1 = mail.fetch(total1[0], "(UID BODY[TEXT])") |
|  | msg = data1[0][1] |
|  | soup = BeautifulSoup(msg, "html.parser") |
|  | txt = soup.get\_text() |
|  | print ("Body :"+txt) |
|  | tts = gTTS(text="Body: "+txt, lang='en') |
|  | ttsname=("body.mp3") #Example: path -> C:\Users\sayak\Desktop> just change with your desktop directory. Don't use my directory. |
|  | tts.save(ttsname) |
|  | music = pyglet.media.load(ttsname, streaming = False) |
|  | music.play() |
|  | time.sleep(music.duration) |
|  | os.remove(ttsname) |
|  | mail.close() |
|  | mail.logout() |