P1 PROJECT
AI & Application Lab (14B17CI772)

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Project Title : SRK VOICE ASSISTANT

Description :
It is a personal voice assistant based on what commands we speak it will work on those commands and do our work easily. Such as opening Web Browsers(Google), opening youtube, playing music, to know the current time, to search on Wikipedia and many more features will be added accordingly.

Approach / Algorithm :
1) Defining Speak Function
2) Install pyttsx3 library
3) Install pypiwin32
4) Create the main function
5) Defining wish me function
6) Defining Take command function
7) Install SpeechRecognition
8) Now write what all commands we want to run.

Code :
```
import pyttsx3
import datetime
import speech_recognition as sr
import wikipedia
import webbrowser
import os
import smtplib
engine = pyttsx3.init('sapi5')
voices = engine.getProperty('voices')
engine.setProperty('voice',voices[0].id)


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

def wishMe():
   hour = int(datetime.datetime.now().hour)
   if hour>=0 and hour<12:
      speak("Good Morning sir!!!")
      print("Good Morning Sir!!!")
   elif hour>=12 and hour<18:
      speak("Good Afternoon sir!!!")
      print("Good Afternoon sir!!!")
   else:
      speak("Good Evening sir!!!")
```

```
        print("Good Evening Sir!!!")
    speak("I am SRK sir.Please tell me how may I Help you")
    print("I am SRK sir.Please tell me how may I Help you!!!")

def takeCommand():
    #It takes microphone input from the user and return String as an output

    r=sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening.....")
        r.pause_threshold = 1
        audio = r.listen(source)


    try:
        print("Recognising....")
        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......")
        return "None"
    return query

def sendEmail(to , content):
    server = smtplib.SMTP('smtp.gmail.com',587)
    server.ehlo()
    server.starttls()
    server.login([redacted])//user id and password
    server.sendmail('201b139@juetguna.in',to,content)
    server.close()

if __name__=="__main__":
    speak("SRK is cool")
    print("SRK is cool!!!")
    wishMe()
    #while True:
    if 1:
        query = takeCommand().lower()
        #Logic for executing task based on query
        if 'wikipedia' in query:
            speak('Searching wikipedia....')
            query = query.replace ("wikipedia", "")
            results = wikipedia.summary(query,sentences=2)
            print(results)
            speak(results)

        elif 'open youtube' in query:
            webbrowser.open("youtube.com")
        elif 'open google' in query:
            webbrowser.open("google.com")
        elif 'open JUET' in query:
            webbrowser.open("juet.ac.in")
        elif 'open stackoverflow' in query:
```

```
        webbrowser.open("stackoverflow.com")
    elif 'play music' in query:
        music_dir = 'D:\\SRK\\Songs'
        songs = os.listdir(music_dir)
        print(songs)
        os.startfile(os.path.join(music_dir,songs[0]))
    elif 'the time' in query:
        strTime = datetime.datetime.now().strftime("%H:%M:%S")
        speak(f"Sir, the time is {strTime}")
    elif 'open code' in query:
        codePath = "C:\\Users\\Kshitij\\AppData\\Local\\Programs\\Microsoft VS Code\\Code.exe"
        os.startfile(codePath)
    elif 'email to Kshitij & Pragya' in query:
        try:
            speak("What should I say?")
            content = takeCommand()
            to = "201b139@juetguna.in","201b183@juetguna.in"
            sendEmail(to ,content)
            speak("Email has been sent!!")
        except Exception as e:
            print(e)
            speak("Sorry Sir I am unable to send the email!!")
```

Test Procedures:

Run the code given above after installing the prerequisite libraries in the compiler and then speak ehat all commands you want from your system without physically handling the system just on your voice command.

Results:

The commands works perfectly fine on the system hence the SRK ease our work.

Conclusion / Remarks:

Evaluation / Marks: