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#Used imports
import speech recognition
import pyttsx3
import pyautogui
import time
import ctypes
import ctypes.wintypes
from AppOpener import open, close
from groq import Groq
#Constants, name of voice assistant and opening statement
name = 'dusty'
openingLine = "Hi sir"
#System User
user32 = ctypes.windll.user32
#CONSNTANT KEYS:
KEYEVENTF EXTENDEDKEY = 0 \times 0001
KEYEVENTF KEYUP = 0 \times 0002
VK MEDIA PLAY PAUSE = 0 \times B3
VK MEDIA NEXT TRACK = 0 \times B0
VK MEDIA PREV TRACK = 0 \times B1
VK VOLUME UP = 0 \times AF
VK VOLUME DOWN = 0 \times AE
VK VOLUME MUTE = 0 \times AD
class Jarvis:
        self.engine = pyttsx3.init()
        voices = self.engine.getProperty('voices')
        self.engine.setProperty('voice', voices[0].id)
        self.engine.runAndWait()
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self.recognizer = speech recognition.Recognizer()
       self.groq client = Groq(api key=
"gsk 2rlcOuQAKhHwJRDztzQUWGdyb3FY3cRIr5dfUHoMrn4u9im5YQq5")
       self.chat history = [{
           "role": "system",
   def speak(self, text):
       pyttsx3.speak(text)
   def send media key(self, key code):
       user32.keybd event(key code, 0, KEYEVENTF EXTENDEDKEY, 0)
       time.sleep(0.1)
       user32.keybd event(key code, 0, KEYEVENTF EXTENDEDKEY |
   def handle media commands(self, text):
           self.send media key(VK MEDIA PLAY PAUSE)
           self.send media key(VK VOLUME UP)
       elif "down" in text:
           self.send media key(VK VOLUME DOWN)
           self.send media key(VK VOLUME MUTE)
           self.send media key(VK MEDIA NEXT TRACK)
           self.send media key(VK MEDIA PREV TRACK)
           self.send media key(VK MEDIA PREV TRACK)
           self.send media key(VK MEDIA PREV TRACK)
           open("Spotify")
           time.sleep(.2)
           pyautogui.hotkey('ctrl', 's')
           pyautogui.hotkey('alt', 'tab')
```

```
open("Spotify")
        time.sleep(.2)
        pyautogui.hotkey('alt', 'shift', 'b')
        pyautogui.hotkey('alt', 'tab')
def handle app commands(self, text):
        app = text.replace("open", "").strip()
        open(app, match closest=True)
        self.speak("Opening")
        app = text.replace("close", "").strip()
        close(app, match closest=True)
        self.speak("Closing")
def handle llm query(self, text):
    self.chat history.append({"role": "user", "content": text})
    response = self.groq client.chat.completions.create(
        model="llama3-70b-8192",
        messages=self.chat history,
        max tokens=8000,
        temperature=1.2
    assistant response = response.choices[0].message.content
    self.chat history.append({
        "content": assistant response
    self.speak(assistant response)
    print(name, assistant response)
def dailyTasks(self):
    open("Google Chrome")
    time.sleep(1)
    pyautogui.hotkey('enter')
    time.sleep(1)
```

```
pyautogui.hotkey('ctrl', 't')
        pyautogui.write('Fun things happening in columbia today')
        pyautogui.hotkey('enter')
        time.sleep(1)
       pyautogui.hotkey('ctrl', 't')
       pyautogui.hotkey('enter')
       time.sleep(1)
       pyautogui.hotkey('ctrl', 't')
       pyautogui.hotkey('enter')
   def listen(self):
       while True:
                with speech recognition. Microphone () as mic:
                    self.recognizer.adjust for ambient noise(mic,
duration=0.2)
                    audio = self.recognizer.listen(mic)
                    text = self.recognizer.recognize google(audio).lower()
                    print(f"{text}")
                        text = text.split("nevermind", 1)[1].strip()
                        text = text.split("never mind", 1)[1].strip()
                        text = text.split(name, 1)[1].strip()
                            self.handle app commands(text)
                        elif any(keyword in text for keyword in ["who",
                            self.handle_llm_query(text)
```