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import speech recognition as sr
In [ ]:
        import pyttsx3
        import webbrowser
        import subprocess
        import datetime
        # Initialize the speech recognition and text-to-speech engines
        recognizer = sr.Recognizer()
        engine = pyttsx3.init()
        def speak(text):
            """Convert text to speech and play it."""
            engine.say(text)
            engine.runAndWait()
        def listen():
            """Listen for audio and convert it to text."""
            with sr.Microphone() as source:
                print("Listening...")
                # Adjust recognizer sensitivity to ambient noise
                recognizer.adjust_for_ambient_noise(source)
                audio = recognizer.listen(source, timeout=5) # Add a timeout to avoid hang
                try:
                    text = recognizer.recognize google(audio)
                    print(f"You said: {text}")
                    return text
                except sr.UnknownValueError:
                    speak("Sorry, I did not understand that.")
                     return None
                except sr.RequestError:
                     speak("Sorry, there was a problem with the request.")
                    return None
        def process_command(command):
            """Process the command and provide a response."""
            command = command.lower()
            if 'hello' in command:
                speak("Hello! How can I assist you today?")
            elif 'time' in command:
                now = datetime.datetime.now()
                speak(f"The current time is {now.strftime('%H:%M:%S')}")
            elif 'youtube' in command:
                speak("Opening YouTube")
                webbrowser.open("https://www.youtube.com")
            elif 'facebook' in command:
                speak("Opening Facebook")
                webbrowser.open("https://www.facebook.com")
            elif 'whatsapp' in command:
                speak("Opening WhatsApp")
                webbrowser.open("https://web.whatsapp.com")
            elif 'linkedin' in command:
                speak("Opening LinkedIn")
                webbrowser.open("https://www.linkedin.com")
            elif 'chrome' in command:
                speak("Opening Google Chrome")
                subprocess.Popen(['start', 'chrome'], shell=True)
            elif 'google' in command:
                speak("Opening Google")
                webbrowser.open("https://www.google.com")
            elif 'command prompt' in command:
                speak("Opening Command Prompt")
                subprocess.Popen('start cmd', shell=True)
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elif 'microsoft edge' in command:
                 speak("Opening Microsoft Edge")
                 subprocess.Popen(['start', 'msedge'], shell=True)
             elif 'exit' in command or 'quit' in command:
                 speak("Goodbye!")
                 return True
             else:
                 speak("Sorry, I don't know how to respond to that.")
             return False
         def main():
            """Main function to run the assistant."""
             speak("Hello! I'm your assistant. What can I do for you?")
             while True:
                 command = listen()
                 if command:
                     exit_program = process_command(command)
                     if exit_program:
                         break
         # Run the assistant
         if __name__ == "__main__":
            main()
        Listening...
        You said: open Chrome
        Listening...
        You said: open WhatsApp
        Listening...
        You said: start timer
        Listening...
        Listening...
        You said: open Facebook Facebook
        Listening...
        You said: open Facebook
        Listening...
        Listening...
        Listening...
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In [ ]:
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