import base64

import json

from flask import Flask, render\_template, request

from worker import speech\_to\_text, text\_to\_speech, openai\_process\_message

from flask\_cors import CORS

import os

app = Flask(\_\_name\_\_)

cors = CORS(app, resources={r"/\*": {"origins": "\*"}})

@app.route('/process-message', methods=['POST'])

def process\_message\_route():

    user\_message = request.json['userMessage'] # Get user's message from their request

    print('user\_message', user\_message)

    voice = request.json['voice'] # Get user's preferred voice from their request

    print('voice', voice)

    # Call openai\_process\_message function to process the user's message and get a response back

    openai\_response\_text = openai\_process\_message(user\_message)

    # Clean the response to remove any emptylines

    openai\_response\_text = os.linesep.join([s for s in openai\_response\_text.splitlines() if s])

    # Call our text\_to\_speech function to convert OpenAI Api's reponse to speech

    openai\_response\_speech = text\_to\_speech(openai\_response\_text, voice)

    # convert openai\_response\_speech to base64 string so it can be sent back in the JSON response

    openai\_response\_speech = base64.b64encode(openai\_response\_speech).decode('utf-8')

    # Send a JSON response back to the user containing their message's response both in text and speech formats

    response = app.response\_class(

        response=json.dumps({"openaiResponseText": openai\_response\_text, "openaiResponseSpeech": openai\_response\_speech}),

        status=200,

        mimetype='application/json'

    )

    print(response)

    return response

@app.route('/speech-to-text', methods=['POST'])

def speech\_to\_text\_route():

    print("processing speech-to-text")

    audio\_binary = request.data # Get the user's speech from their request

    text = speech\_to\_text(audio\_binary) # Call speech\_to\_text function to transcribe the speech

    # Return the response back to the user in JSON format

    response = app.response\_class(

        response=json.dumps({'text': text}),

        status=200,

        mimetype='application/json'

    )

    print(response)

    print(response.data)

    return response

@app.route('/process-message', methods=['POST'])

def process\_prompt\_route():

    response = app.response\_class(

        response=json.dumps({"openaiResponseText": None, "openaiResponseSpeech": None}),

        status=200,

        mimetype='application/json'

    )

    return response

if \_\_name\_\_ == "\_\_main\_\_":

    app.run(port=8000, host='0.0.0.0')