from flask import Flask, request, jsonify

import requests

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

# Replace with your Google Maps API key

GOOGLE\_MAPS\_API\_KEY = "AIzaSyDSPPoMNkXO37n3dB1vAIbssZfTtLaiGkk"

@app.route("/submit-survey", methods=["POST"])

def submit\_survey():

"""

Endpoint to handle survey submissions and return relevant locations.

Request Body:

address (str): The address to geocode.

keyword (str, optional): A keyword to filter nearby places (e.g., 'park', 'restaurant').

"""

survey\_data = request.json

if not survey\_data or "address" not in survey\_data:

return jsonify({"error": "Survey data must include an 'address' field."}), 400

address = survey\_data["address"]

keyword = survey\_data.get("keyword") # Optional field for filtering places

# Geocode the address to get latitude and longitude

geocode\_url = "https://maps.googleapis.com/maps/api/geocode/json"

geocode\_params = {

"address": address,

"key": GOOGLE\_MAPS\_API\_KEY,

}

geocode\_response = requests.get(geocode\_url, params=geocode\_params)

geocode\_data = geocode\_response.json()

if geocode\_data.get("status") != "OK":

return jsonify({"error": "Unable to geocode address", "details": geocode\_data}), 500

location = geocode\_data["results"][0]["geometry"]["location"]

lat, lng = location["lat"], location["lng"]

# Search for nearby places using the Google Places API

places\_url = "https://maps.googleapis.com/maps/api/place/nearbysearch/json"

places\_params = {

"location": f"{lat},{lng}",

"radius": 1000, # Adjust radius as needed

"keyword": keyword,

"key": GOOGLE\_MAPS\_API\_KEY,

}

places\_response = requests.get(places\_url, params=places\_params)

places\_data = places\_response.json()

if places\_data.get("status") != "OK":

return jsonify({"error": "Unable to fetch places", "details": places\_data}), 500

# Extract relevant places information

places = [

{

"name": place["name"],

"address": place.get("vicinity"),

"rating": place.get("rating"),

}

for place in places\_data.get("results", [])

]

return jsonify({

"geocoded\_address": geocode\_data["results"][0]["formatted\_address"],

"latitude": lat,

"longitude": lng,

"places": places,

})

@app.route("/")

def home():

"""

Home endpoint to guide users on how to use the API.

"""

return jsonify({

"message": "Welcome to the Google Maps Survey Integration API!",

"endpoints": {

"/submit-survey": "Submit survey data and get location-based recommendations.",

},

"example\_usage": {

"/submit-survey": {

"method": "POST",

"body": {

"address": "1600 Amphitheatre Parkway, Mountain View, CA",

"keyword": "park"

}

}

}

})

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

app.run(debug=True)