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#!/usr/bin/env python
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import os
import sys
import requests
from datetime import datetime
# Global Parameters
LANG = 'en'
# DarkSky.net API Parameters
DS_API_HOST = 'https://api.darksky.net/forecast'
DS_API_KEY = os.environ.get('DS_API_KEY')
DS_UNITS = 'si'
# Google Maps Geocoding API Parameters
GM_ENDPOINT = 'http://maps.google.com/maps/api/geocode/json'
GM_API_KEY = os.environ.get('GM_API_KEY')
def make_get_request(uri: str, payload):
  111111
  Function to make a GET request to API Endpoint
  :param uri:
  :param payload:
  :return:
  111111
  response = requests.get(uri, payload)
  if response.status_code != 200:
    return None
  else:
    return response.json()
def get_geo_data(address: str):
  """ Function to get coordinates from Google Maps Geocoding API
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:param address:
  :return:
  .....
  payload = {'address': address, 'language': LANG, 'key': GM_API_KEY}
  response = make_get_request(GM_ENDPOINT, payload)
  if not response:
    return None
  data = response['results'][0]
  formatted_address = data['formatted_address']
  lat = data['geometry']['location']['lat']
  Ing = data['geometry']['location']['Ing']
  return {'lat': lat, 'lng': lng, 'formatted_address': formatted_address}
def get_forecast_data(lat: str, lng: str):
  """ Function to get Forecast data from DarkSky.net API
  :param lat:
  :param Ing:
  :return:
  111111
  uri = DS_API_HOST + '/' + DS_API_KEY + '/' + str(lat) + ',' + str(lng)
  payload = {'lang': LANG, 'units': DS_UNITS}
  response = make_get_request(uri, payload)
  if not response:
    return None
  return response['daily']
def print_daily_forecast(geo, forecast):
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  Function to print daily weather forecast information
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:param geo:
  :param forecast:
  print('Getting Forecast for: ' + geo['formatted_address'])
  print('Weekly Summary: ' + forecast['summary'])
  print()
  for day in forecast['data']:
    date = datetime.fromtimestamp(day['time'])
    if date.date() == datetime.now().date():
      day_name = 'Today'
    else:
      day_name = date.strftime("%A")
    summary = day['summary']
    temperature_min = str(round(day['temperatureMin'])) + 'oc'
    temperature_max = str(round(day['temperatureMax'])) + 'ºC'
    print(
      date.strftime('%d/%m/%Y') + ' (' + day_name + '): ' +
      summary + ' ' + temperature_min + ' - ' + temperature_max
    )
    print()
def print_header():
  print('----')
  print(' WEATHER FORECAST 1.0
  print('----')
  print()
def main():
  111111
  Main Function
  111111
  if len(sys.argv) < 2 or DS_API_KEY is None:
    exit('Error: no location or env vars found')
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geo_data = get_geo_data(sys.argv[1])

if not geo_data:
    exit('Error: Address not found or invalid response')

forecast_data = get_forecast_data(geo_data['lat'], geo_data['lng'])

if not forecast_data:
    exit('Error: Forecast not found or invalid response')

# Print Output Forecast information
print_header()
print_daily_forecast(geo_data, forecast_data)

if __name__ == '__main__':
    main()
```