assign 2.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python39/assign 2.py (3.9.0b3)

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```
#1 import
try:
    import configparser
except:
    from six.moves import configparser

import smtplib
from email.mime.multipart import MIMEMultipart
from email.mime.text import MIMEText


#2 variable related to weather API
weather_dict = {'freezing_rain_heavy': 'Heavy rain and snow', 'freezing_rain': 'Rain and snow', 'freezing_rain_light': 'Light rain and snow', 'freezing_drizzle': 'Ligh
url = "https://api.climacell.co/v3/weather/nowcast"

querystring = {"lat":"1.29027","lon":"103.851959","unit_system":"si","timestep":"60","start_time":"now","fields":"temp,humidity,weather_code","apikey":"xxxx"}

#3 class
class EmailSender():
    #4 initialization
    def __init__(self):
        self.cf = configparser.ConfigParser()
        self.cf.read('./config.ini')
        self.sec = 'email'

        self.email = self.cf.get(self.sec, 'email')
        self.host = self.cf.get(self.sec, 'host')
        self.port = self.cf.get(self.sec, 'port')
        self.password = self.cf.get(self.sec, 'password')

    #5 main function to send email
    def SendEmail(self, recipient):
        title = "Home Sweet Home"

        #6 create a new multipart mime object
        msg = MIMEMultipart()
        msg['Subject'] = '[Weather Notification]'
        msg['From'] = self.email
        msg['To'] = ', '.join(recipient)

        #7 call weather API using requests
```

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    #6 create a new multipart mime object
    msg = MIMEMultipart()
    msg['Subject'] = '[Weather Notification]'
    msg['From'] = self.email
    msg['To'] = ', '.join(recipient)

    #7 call weather API using requests
    response = requests.request("GET", url, params=querystring)
    result = ""

    json_data = response.json()
    #print(json_data)

    #8 loop over each data and check for abnormal weather (rain, snow)
    for i in range(len(json_data)):
        if(json_data[i]['weather_code']['value'] in weather_dict):
            if(i == 0):
                result = "%s at the moment. Current temperature is " % (weather_dict[json_data[i]['weather_code']['value']])
            else:
                result = "%s in %s hour(s) time. Forecasted temperature is " % (weather_dict[json_data[i]['weather_code']['value']], i)

            result += '%s%s while the humidity is about %s%s' % (json_data[i]['temp']['value'], json_data[i]['temp']['units'], json_data[i]['humidity']['value'], j

            msgText = MIMEText('<b>%s</b><p>%s</p>' % (title, result), 'html')
            msg.attach(msgText)

            #9 authenticate and send email
            with smtplib.SMTP(self.host, self.port) as smtpObj:
                smtpObj.ehlo()
                smtpObj.starttls()
                smtpObj.login(self.email, self.password)
                smtpObj.sendmail(self.email, recipient, msg.as_string())
                return "Success"

            return "Failed"
            break
        import weather_email
        email_obj=weather_email.EmailSender()
        email_obj.sendemail(["email@gmail.com","ashikainbaraj@gmail.com"])
```

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