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| **Source Code** |

**used Code**

import email

from re import A

import pandas as pd

import smtplib

import numpy as np

from openpyxl import load\_workbook

from openpyxl.utils.cell import get\_column\_letter

import sqlite3

import requests

def start(): #mian starting fucntion

    choice=input("""do you want to add type "add" or remove email from subscription list type "remove" or  to send out Email type  "Email out" :""").lower() #ask use for input input

    if choice == "email out":

        emailbot()

    elif choice=="add":  #sorts throught option if user types add it will take user to funtion where it will add user to subscription list

        emailadd()  #lead to funtion where user can add eamil ,name , set password for account to subscription list

    elif choice=="remove": #sorts throught option if user types remove it will take user to funtion where it will remove user to subscription list

        emailrem()    #lead to funtion where user can remove eamil ,name , set password for account to subscription list

    else: #if none of earlier option can be used if will just send user to start of program

        start()

def emailrem():

    email=str(input("Enter your email assosiated with with email subusbsription:")) # takes users email

    conect=sqlite3.connect("data.db")# connects to databse

    c=conect.cursor()# connects to databse

    c.execute("DELETE FROM customerF WHERE emails=?", (email,))# deletes email from databse wiuth thier name and ervything to databse

    conect.commit()# commits to databse

    conect.close()# clsoes connectition  to databse

    restart() # goes to fution that will eatither restart funtion or end funtion

def emailadd(): # this function will add user to subscription list so when email go out they get email

    firstname=input("Enter your for name:")# takes users first  name

    lastname=input("Enter your surname:")# takes users last nme

    email=input("Enter your email address:")# takes users email

    conect=sqlite3.connect("data.db")# connects to databse

    c=conect.cursor()# connects to databse

    r=c.execute("""SELECT emails FROM customerF""")# looks if email is in   databse

    data = c.fetchall()# fetches inforamtion

    listt=tuple(i[0] for i in data) #makes into list that cdoe can use

    if email in listt: #if email exist it will go restart funtion

        print("your email address in use for our email newslater subscription service")

        restart()

    if email not in listt:#if email deso not exist it will add meail name and to databse

        add(firstname,lastname,email) # add funtion

    else:#it goes to rest fution

        print("sorry a probelm has ocuured pls try again")

        restart()

def add(firstname,lastname,email): #funtion adds email to datbse

    conect=sqlite3.connect("data.db") #connet to databse

    c=conect.cursor() #connet to databse

    c.execute("INSERT INTO customerF (first\_name,last\_name,emails,) VALUES (?,?,?)",(firstname,lastname,email)) # insert data to databse

    conect.commit()# commits dat to database

    conect.close()#clsoese conection   to database

    restart() #it goes to rest fution

def emailbot():

    your\_name = "talha" # login info for gmail

    your\_email = "noreplyresit@gmail.com"  # login info for gmail

    your\_password = "aQW8m7WcKTK\*NpA4m-@D\_$#AT8rE7MSS9m\*NS?7wv?\_Bbd-GEnu3MrABqY+@23FXeA" # login info for gmail

    server = smtplib.SMTP\_SSL('smtp.gmail.com', 465) # connects to email server

    server.ehlo()# connects to email server

    server.login(your\_email, your\_password)# connects to email server

    conect=sqlite3.connect("data.db") #connect to databse

    c=conect.cursor()#connect to databse

    datafirstname=c.execute("""SELECT first\_name FROM customerF""") #finds  first names of  people

    data\_firstname = c.fetchall() #fethces   first names of  people

    list\_firstname=tuple(i[0] for i in data\_firstname) # makes list of FIRST name that code can use

    datalastname=c.execute("""SELECT last\_name FROM customerF""") #finds  last names of  people

    data\_lastname = c.fetchall()#fethces   last names of  people

    list\_lastname=tuple(i[0] for i in data\_lastname)# makes list of FIRST name that code can use

    dataemail=c.execute("""SELECT emails FROM customerF""")#finds  email of  people

    data\_email = c.fetchall()#fethces   emails of  people

    list\_email=tuple(i[0] for i in data\_email)# makes list of emails that code can use

    max=list\_email

    # BBC news api

    main = " https://newsapi.org/v1/articles?source=bbc-news&sortBy=top&apiKey=be79bb67b07f469ab415e2aef0aeb9e0" #help connect to api

    # fetching data in json format

    open\_page = requests.get(main).json()

    # getting all articles in a string article

    article = open\_page["articles"]

    # empty list which will

    # contain all trending news

    content = []

    for art in article:

        content.append(art["title"])

    for i in range(len(content)):

        # festches and sorts out all trending news

        result=(i + 1, content[i])

        result = "\n".join(f'({index} {item!r}' for index, item in enumerate(content, start=1))

        result=result.replace("(","").center(50)

    for i in range(len(max)):

        fullname=list\_firstname[i]+" "+list\_lastname[i]  #combines  first anme and last name   for specifc user in order stored

        lastemail=list\_email[i] #stores  email  for specifc user in order stored

        #formats how  email will look wen send out

        fullemail=(f"From:{your\_name} <{your\_email}>\nTo:{fullname}<{lastemail}>\n Subject: BBC News\n\ntodays news\n+{result}")

        try: # trys to send out email to email

            server.sendmail(your\_email, [lastemail], fullemail)

            print('Email to {} successfully sent!\n\n'.format(email))

        except Exception as e: # trys to send out email to email if it does not wrok tells it did not work specific user

            print('Email to {} could not be sent :( because {}\n\n'.format(lastemail, str(e)))

    server.close

def restart(): # ths iis reatrt function

    choice=input("do you want to go to Main menu then type 1 or if you wish to quit porgram type 2 ") #gives uer option top start program all over or end it

    if choice=="1":

        start()# takes to satrt of funtion

    if choice =="2":

        exit() # takes to funtio that ends program

def exit(): #ends porgram

    print("Thank you for using our serveices")

start()

**Unused Code**

from fileinput import close

from hashlib import new

import sys

import ap

def append():

    file\_object = open('ap.py', 'a+')

    # Append 'hello' at the end of file

    file\_object.write("""a=6 """)

    # Close the file

    file\_object.close()

def prints():

    print(ap.a)

def delete():

    a\_file = open('ap.py', 'r')

    lines=a\_file.readlines()

    a\_file.close()

    del lines[0]

    new\_fiel = open('ap.py',"w+")

    for line in lines:

        new\_fiel.write(line)

    new\_fiel.close

delete()

import sqlite3

conect=sqlite3.connect("data.db")

c=conect.cursor()

datafirstname=c.execute("""SELECT first\_name FROM customerF""")

data\_firstname = c.fetchall()

list\_firstname=tuple(i[0] for i in data\_firstname)

datalastname=c.execute("""SELECT last\_name FROM customerF""")

data\_lastname = c.fetchall()

list\_lastname=tuple(i[0] for i in data\_lastname)

dataemail=c.execute("""SELECT emails FROM customerF""")

data\_email = c.fetchall()

list\_email=tuple(i[0] for i in data\_email)

print(len(list\_email)-1)

#

conect.commit()

conect.close()

#w="('"+em+"',)"

#if w== rows[0]:

#    print("yes")

#else:

#    print("no")

#for i in rows:

    #print(i)

#    if w==i:

#        print("yes")

#for    else:

#        print("no")

#for i in rows:

#   if i==email:

#       print("yes")

conect=sqlite3.connect("data.db")

c=conect.cursor()

datafirstname=c.execute("""SELECT first\_name FROM customerF""")

data\_firstname = c.fetchall()

list\_firstname=tuple(i[0] for i in data\_firstname)

datalastname=c.execute("""SELECT last\_name FROM customerF""")

data\_lastname = c.fetchall()

list\_lastname=tuple(i[0] for i in data\_lastname)

dataemail=c.execute("""SELECT emails FROM customerF""")

data\_email = c.fetchall()

list\_email=tuple(i[0] for i in data\_email)

max=len(list\_email)-1

i=0

while i<=max:

    print(list\_firstname[i],list\_lastname[i],list\_email[i])

    i=i+1

print("finish")

conect.commit()

conect.close()

from openpyxl import Workbook

from openpyxl.drawing.image import Image

wb = Workbook()

ws = wb.active

ws['A2'] = 'You should see three logos below'

wb.save('new.xlsx')

row=1

a="A"+str(row)

    wb = load\_workbook("email.xlsx")  # this loads the excel file

    ws = wb.get\_sheet\_by\_name('email\_list') # this help code to get tp correct sheet in excel file

    column = ws['B']  #this tells code use only acces coloum B

    column\_list = [column[x].value for x in range(len(column))] #this convert colum to list

    namechoice=input("enter your name:") # this ask user to enter  name

    Emailchoice=input("Enter your email:") # this ask user to email  that email will be sent to

    passwordchoice=input("enter your password :")# this ask user to set password

    passwordconfirmchoice=input("enter your password to confirm") # this ask user to confrim password

    if  Emailchoice in   column\_list: # this compares email addres enter by peroson to list if email exist in databse

        print("you already have an account") #few lines of codes below runs if email already exist in datdabse  adn it will give use choice to to go main menu or ecnd prpgram

        choice=input("Do you want to go to Main menu then type 1 or if you Wish to quit porgram type 2 : ")

        if choice=="1":

            start(num\_row)

        if choice =="2":

            exit(num\_row)

    else:  #this will run email is not in database

        if passwordchoice==passwordconfirmchoice:

            path= "C:/Users/Talha/Desktop/folders/pythonresit/email.xlsx"

            data=pd.write(open(path))

            row=num\_row

            column1=1

            column2=2

            column3=3

            data.iloc[row,column1]=namechoice

            data.iloc[row,column2]=Emailchoice

            data.iloc[row,column3]=passwordchoice

            data.to\_excel("email.xlsx")

import requests

    # BBC news api

    main = " https://newsapi.org/v1/articles?source=bbc-news&sortBy=top&apiKey=be79bb67b07f469ab415e2aef0aeb9e0"

    # fetching data in json format

    open\_page = requests.get(main).json()

    # getting all articles in a string article

    article = open\_page["articles"]

    # empty list which will

    # contain all trending news

    content = []

    for art in article:

        content.append(art["title"])

    for i in range(len(content)):

        # printing all trending news

        result=(i + 1, content[i])

        result = "\n".join(f'({index} {item!r}' for index, item in enumerate(content, start=1))

        print(result)

        result=result.replace("(","")

print(result)

from re import A

from turtle import hideturtle

import pandas as pd

import smtplib

import xlrd as xl

import numpy as np

from openpyxl import load\_workbook

from openpyxl.utils.cell import get\_column\_letter

import openpyxl

import pickle

n=2

def start(n):

    print("""do you want to add type "add" or remove email from subscription list type "remove" .""")

    choice=input(":").lower()

    if choice=="add":

        emailadd(n)

    elif choice=="remove":

        emailrem(n)

    else:

        start(n)

def emailrem(n):

    print("hid")

def emailbot(n):

    your\_name = "talha"

    your\_email = "noreplyresit@gmail.com"

    your\_password = "Pakistan05"

    # If you are using something other than gmail

    # then change the 'smtp.gmail.com' and 465 in the line below

    server = smtplib.SMTP\_SSL('smtp.gmail.com', 465)

    server.ehlo()

    server.login(your\_email, your\_password)

    # Read the file

    email\_list = pd.read\_excel("a.xlsx")

    # Get all the Names, Email Addreses, Subjects and Messages

    all\_names = email\_list['Name']

    all\_emails = email\_list['Email']

    all\_subjects = email\_list['Subject']

    all\_messages = email\_list['Message']

    # Loop through the emails

    for idx in range(len(all\_emails)):

        # Get each records name, email, subject and message

        name = all\_names[idx]

        email = all\_emails[idx]

        subject = all\_subjects[idx]

        message = all\_messages[idx]

        # Create the email to send

        full\_email = ("From: {0} <{1}>\n"

                    "To: {2} <{3}>\n"

                    "Subject: {4}\n\n"

                    "{5}"

                    .format(your\_name, your\_email, name, email, subject, message))

        # In the email field, you can add multiple other emails if you want

        # all of them to receive the same text

        try:

            server.sendmail(your\_email, [email], full\_email)

            print('Email to {} successfully sent!\n\n'.format(email))

        except Exception as e:

            print('Email to {} could not be sent :( because {}\n\n'.format(email, str(e)))

    # Close the smtp server

    server.close()

def emailadd(n):

    namechoice=input("enter your name:")

    Emailchoice=input("Enter your email:")

    passwordchoice=input("enter your password :")

    passwordconfirmchoice=input("enter your password to confirm")

    wb = load\_workbook("a.xlsx")

    ws = wb.get\_sheet\_by\_name('Sheet')

    column = ws['B']

    column\_list = [column[x].value for x in range(len(column))]

    if  Emailchoice in   column\_list:

        print("you already have an account")

        choice=input("do you want to go to Main menu then type 1 or if you wish to quit porgram type 2 ")

        if choice=="1":

            start(n)

        if choice =="2":

            exit(n)

    if Emailchoice not in   column\_list:

        if passwordchoice==passwordconfirmchoice:

            wb = openpyxl.Workbook()

            sheet = wb.active

            wb["B1"]="hi"

            wb.save("C:/Users/Talha/Desktop/pythonresit/a.xlsx")

            n=n+1

            print(n)

            return n

        if passwordchoice!=passwordconfirmchoice:

            emailadd(n)

        else:

            emailadd(n)

    else:

        emailadd(n)

def exit(n):

    print("Thank you for using our serveices")

start(n)