

# Graphic Era

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## Mini Project

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#### **Introduction:**

The report has been written as a requirement to complete the mini project for **Automation of Mail Sending using Python**. The objective of the project is to make a GUI to send a automated mail. And It is asked to use Python programming language. Python has a lot of libraries to help in making of the project.

The application I made sends a automated mail after 10 seconds, everytime we send a mail to someone. My thinking of sending mail is that, We sell pictures and when someone buys pictures from us we send those (best quality) in their mail and after 10 seconds the app we use to send mail it automatically sends another mail which contains our top rated pictures.

#### Objectives:

- # Gathering all the information and writing the code
- # Designing the GUI
- # Making it a '.exe' application

#### About the project:

#### 1) Libraries used

- a) smtp: this library helps to logging in to the Email account and sending the mail
- b) EmailMessage: this library helps to hold all the information in a single object.
- c) tkinter: this library helps to create GUI
- d) time: this library helps to slow down some process.
- e) os: this library helps in using the environment variables

#### Code:

```
from tkinter import *
import os
import smtplib
from email.message import EmailMessage # its a class to send messages in a better way. We no need to creater
everything seperately
import tkinter
from tkinter import filedialog
import time
root = Tk()
win icon = PhotoImage(file='P:\Docs\VS code\Python\mini project\icon\win icon.png')
root.iconphoto(False, win icon)
send btn = PhotoImage(file='P:\Docs\VS code\Python\mini project\icon\send button.png')
files btn = PhotoImage(file='P:\Docs\VS code\Python\mini project\icon\\file.png')
root.maxsize(800, 600)
root.minsize(800, 600)
root.title('Python Mail Sender')
to = tkinter.StringVar()
cc = tkinter.StringVar()
bcc = tkinter.StringVar()
message = tkinter.StringVar()
sub = tkinter.StringVar()
```

```
EMAIL ADDRESS = os.environ.get('acc')
EMAIL PASSWORD = os.environ.get('pass')
msg = EmailMessage() # created an object of 'EmailMessage' class
#msg.set content('Sending some images...')
mg = EmailMessage()
# attach files
files = [] # an empty list
#files = ['P:\Docs\VS code\Python\mini project\\result.pdf']
def select file():
    root.filename = filedialog.askopenfile(initialdir="/c", title="Select a file")
    files.append(str(root.filename.name))
def send():
    with smtplib.SMTP SSL('smtp.gmail.com', 465) as smtp:
        msg['Subject'] = sub.get()
        msg['From'] = EMAIL ADDRESS
        msg['To'] = to.get()
        if(cc.get()):
            msg['Cc'] = cc.get()
        if(bcc.get()):
            msg['Bcc'] = bcc.get()
```

```
mssg = message.get()
    msg.set content(mssg)
    for file in files:
       with open(file, 'rb') as f: # 'rb' = read bytes
           file data = f.read() # getting access
            #file type = imghdr.what(f.name) # 'f.name' will give the excat file type in which it got into it.
           We can change it in any like '.png'
           file name = f.name
       msg.add attachment(file data, maintype='application', subtype='octet-stream', filename=file name) #
        for pdf: maintype = 'application', subtype = 'octet-stream' and for images: maintyp='image',
        subtype=f.name
    smtp.login(EMAIL ADDRESS, EMAIL PASSWORD)
    smtp.send message(msg)
    smtp.quit()
time.sleep(60) # time selay for 60 seconds
sbj = "Images you may like"
msge = "Greetings Sir\n\nThis is an automated mail.\nYou bought some images from us, we do have many more
images you can check them out.\nHere are some of our top rated images."
img files = ['P:\Media\Wallpapers\wallpapers\\art.jpg', 'P:\Media\Wallpapers\\evening.jpg',
'P:\Media\Wallpapers\wallpapers\\tornado.jpg']
```

```
with smtplib.SMTP SSL('smtp.gmail.com', 465) as smtp:
    mg['Subject'] = sbj
    mg['From'] = EMAIL ADDRESS
    mg['To'] = to.get()
    mg.set content(msge)
    for file in img files:
        with open(file, 'rb') as f:
            file data = f.read()
            file name = f.name
        mg.add attachment(file data, maintype='application', subtype='octet-stream', filename=file name) # for
        pdf: maintype = 'application', subtype = 'octet-stream' and for images: maintyp='image', subtype=f.
    smtp.login(EMAIL ADDRESS, EMAIL PASSWORD)
    smtp.send message(mg)
    smtp.quit()
```

```
label email = Label(root, text='To', font=('calibre', 13), pady=10, padx=40)
email entry = Entry(root, textvariable=to, font=('calibre', 8, 'normal'), width=40, fg='grey')
label message = Label(root, text='Type your message', font=('calibre', 13), pady=10)
message entry = Entry(root, textvariable=message, font=('calibre', 8, 'normal'), width=40, fg='grey')
label sub = Label(root, text='Subject', font=('calibre', 13), pady=10)
sub entry = Entry(root, textvariable=sub, font=('calibre', 8, 'normal'), width=40, fg='grey')
label cc = Label(root, text='Cc', font=('calibre', 13), pady=10)
cc entry = Entry(root, textvariable=cc, font=('calibre', 8, 'normal'), width=40, fg='grey')
label bcc = Label(root, text='Bcc', font=('calibre', 13), pady=10)
bcc entry = Entry(root, textvariable=bcc, font=('calibre', 8, 'normal'), width=40, fg='grey')
btn = Button(root, image=send btn, padx=15, command=send, relief=FLAT)
label email.place(relx=0.25, rely=0.02)
email entry.place(relx=0.4, rely=0.04)
label sub.place(relx=0.25, rely=0.078)
sub entry.place(relx=0.4, rely=0.1)
```

label\_cc.place(relx=0.29, rely=0.14)
cc\_entry.place(relx=0.4, rely=0.16)

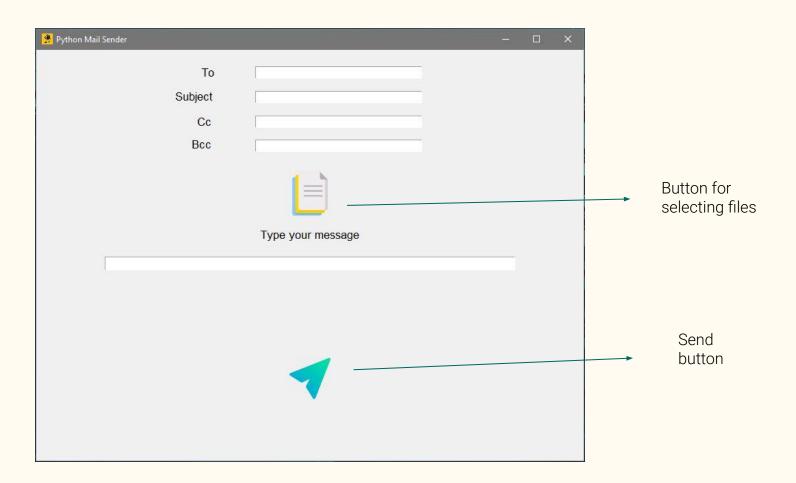
```
label bcc.place(relx=0.28, rely=0.195)
bcc entry.place(relx=0.4, rely=0.218)
label message.place(relx=0.5, rely=0.45, anchor=CENTER)
message entry.place(relx=0.5, rely=0.52, anchor=CENTER, width=600, height=20) # height=80
btn files = Button(root, image=files btn, pady=5, padx=40, command=select file, relief=FLAT)
btn files.place(relx=0.5, rely=0.35, anchor=CENTER)
# btn.grid(row=5)
btn.place(relx=0.5, rely=0.8, anchor=CENTER)
root.mainloop()
# to make it a '.exe' file
# 1) install pyinstaller 'pip install pyinstaller'
# 2) then type 'pyinstaller --onefile --icon=email.ico -w new.py'
```

--icon=email.ico, if you want to use icon for the exe file

-w to disable the window when we open the .exe file

new.py is the name of the file(code)

### **GUI:**



#### Reference:

I made this mini project with the help of my project teacher Dr. Mahesh Manchanda and Internet.