



四川大學

计算机网络和分布式系统 项目开发报告

题 目 Mail client

学 院 建筑与环境学院

专 业 力学软件实验班

学生姓名 李昕霖

学 号 2019141470405

年 级 2019 级

指导教师 宋万忠



二〇二一年 6月 27 日



目录

一、 功能及说明

发送邮件



邮件发送客户端

发送人: 1146394235<1146394235@qq.com>

接收人:

主题:

内容:

清空 发送

二、 设计与说明

sendmain 函数为发送函数;



```
'''发送函数'''
def sendmail(mail_receiver, mail_subject, mail_content):

    msg = MIMEText(mail_content, 'plain', 'utf-8')
    msg['Subject'] = mail_subject
    msg['From'] = me
    msg['To'] = ";".join(mail_receiver)

    try:
        server = smtplib.SMTP_SSL(mail_host, 465)
        server.login(mail_user, mail_pass)
        server.sendmail(me, mail_receiver, msg.as_string())
        server.quit()
    except smtplib.SMTPException:
        print("Error: 无法发送邮件")
```

client 为客户端;

```
def client():

    top = Tk()
    top.title("邮件发送客户端")
    top.geometry('500x500')

    '''发送人'''
    Label(top, text="发送人:", bg="white", font="宋体", width=10, height=1).place(x=30, y=30)
    Label(top, text="1146394235<1146394235@qq.com>", font="宋体", bg="white", width=35, height=1).place(x=170, y=30)

    '''接收人'''
    Label(top, text="接收人:", bg="white", font="宋体", width=10, height=1).place(x=30, y=70)
    receiver_entry = Entry(top, width=40)
    receiver_entry.place(x=170, y=70)

    '''主题'''
    Label(top, text="主题:", bg="white", font="宋体", width=10, height=1).place(x=30, y=110)
    subject_entry = Entry(top, width=40)
    subject_entry.place(x=170, y=110)

    '''内容'''
    Label(top, text="内容:", bg="white", font="宋体", width=10, height=1).place(x=30, y=150)
    content_text = Text(top, width=60, height=20)
    content_text.place(x=30, y=190)
```



```
def clearcontent():
    content_text.delete('0.0','end')

def send():
    receiver = receiver_entry.get()
    subject = subject_entry.get()
    content = content_text.get('0.0','end')
    if "@" in receiver:
        try:
            sendmail(receiver,subject,content)
            print("邮件已发送")
        except IOError:
            print("发送失败")
    else:
        print("邮箱格式不对\n请确认接收人邮箱")

'''按钮'''
Button(top,text="清空",bd=5,font="宋体",width=10,command=clearcontent).place(x=30,y=460)
Button(top,text="发送",bd=5,font="宋体",width=10,command=send).place(x=355,y=460)

top.mainloop()
```

三、项目开发中遇到的问题和体会

开发时常常会遇到诸多问题，但通过上网查询，大多问题都可以得到解决，而在超找问题的过程中也就实现了对知识点的再复习，提升自我素质水平。

四、附件一：代码

```
import smtplib
from email.mime.text import MIMEText
from tkinter import *

mail_host = "smtp.qq.com" # 设置服务器
mail_user = "1146394235@qq.com" # 用户名
mail_pass = "dpxafwalfuerjjcf" # 授权码
me = "1146394235" + "<" + "1146394235 @qq.com" + ">"

'''发送函数'''
def sendmail(mail_receiver, mail_subject, mail_content):

    msg = MIMEText(mail_content, 'plain', 'utf-8')
    msg['Subject'] = mail_subject
    msg['From'] = me
    msg['To'] = ";".join(mail_receiver)

    try:
        server = smtplib.SMTP_SSL(mail_host, 465)
        server.login(mail_user, mail_pass)
```



```
server.sendmail(me, mail_receiver, msg.as_string())
server.quit()
except smtplib.SMTPException:
    print("Error: 无法发送邮件")
```

```
'''客户端'''
def client():
```

```
    top = Tk()
    top.title("邮件发送客户端")
    top.geometry('500x500')
```

```
    '''发送人'''
    Label(top, text="发送人:", bg="white", font="宋体", width=10, height=1).place(x=30, y=30)
    Label(top, text="1146394235<1146394235@qq.com>", font="宋体", bg="white", width=35, height=1).place(x=170, y=30)
```

```
    '''接收人'''
    Label(top, text="接收人:", bg="white", font="宋体", width=10, height=1).place(x=30, y=70)
    receiver_entry = Entry(top, width=40)
    receiver_entry.place(x=170, y=70)
```

```
    '''主题'''
    Label(top, text="主题:", bg="white", font="宋体", width=10, height=1).place(x=30, y=110)
    subject_entry = Entry(top, width=40)
    subject_entry.place(x=170, y=110)
```

```
    '''内容'''
    Label(top, text="内容:", bg="white", font="宋体", width=10, height=1).place(x=30, y=150)
    content_text = Text(top, width=60, height=20)
    content_text.place(x=30, y=190)
```

```
def clearcontent():
    content_text.delete('0.0', 'end')
```

```
def send():
    receiver = receiver_entry.get()
    subject = subject_entry.get()
    content = content_text.get('0.0', 'end')
    if "@" in receiver:
        try:
            sendmail(receiver, subject, content)
            print("邮件已发送")
        except IOError:
            print("发送失败")
    else:
        print("邮箱格式不对\n请确认接收人邮箱")
```



```
'''按钮'''
```

```
Button(top,text="清空",bd=5,font="宋体",width=10,command=clearcontent).place(x=30,y=460)
```

```
Button(top,text="发送",bd=5,font="宋体",width=10,command=send).place(x=355,y=460)
```

```
top.mainloop()
```

```
if __name__ == '__main__':
```

```
    client()
```