



CSE 336 - Computer Networks

Lab 3

Submitted by:

Ahmed Hani Ahmed 7387

Due on:

April 19th, 2024

Email Client Application

Problem statement:

Your task is to develop a Python-based email client application that can send and receive emails using the `smtplib` and `imaplib` libraries respectively. The application should be able to establish a TCP connection with a mail server, dialogue with the mail server using the SMTP and IMAP protocols, send an e-mail message to a recipient via the mail server, fetch the latest email from the mailbox, and finally close the TCP connection with the mail server.

How to Send Emails Using the Email Sender Script:

Step 1: Launch the Application

Open the application by running the script file.

Step 2: Enter Your Information

Fill in the required fields:

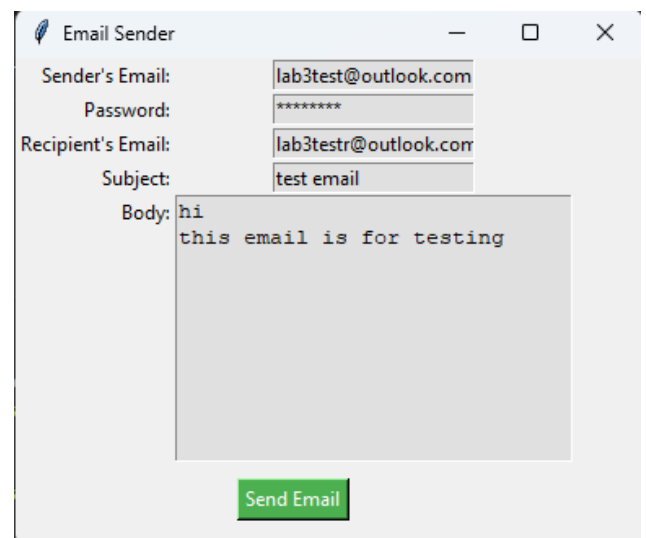
Sender's Email: Enter your email address from which you want to send the email.

Password: Enter the password for your email account.

Recipient's Email: Provide the recipient's email address.

Subject: Enter the subject of your email.

Body: Write the content of your email in the provided text box.

A screenshot of a Windows-style application window titled "Email Sender". The window contains several input fields and a text area. The "Sender's Email:" field is filled with "lab3test@outlook.com". The "Password:" field is filled with "*****". The "Recipient's Email:" field is filled with "lab3testr@outlook.com". The "Subject:" field is filled with "test email". The "Body:" text area contains the text "hi" on the first line and "this email is for testing" on the second line. At the bottom right of the window is a green button labeled "Send Email".

Step 3: Send the Email

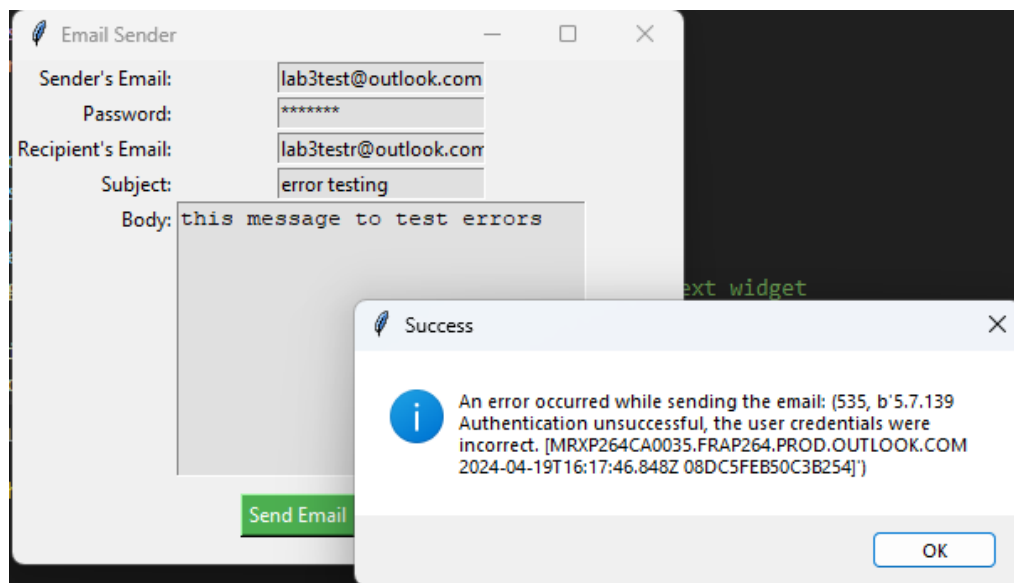
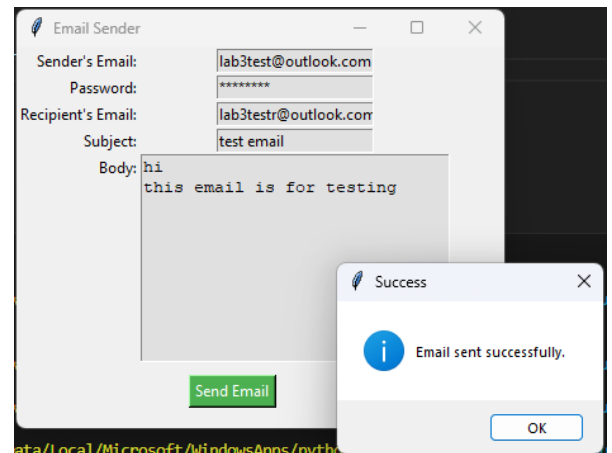
After filling in all the necessary information, click on the "Send Email" button.

The application will process your request and attempt to send the email using the provided information.

Step 4: Confirmation

If the email is sent successfully, you'll see a message confirming the successful delivery of the email.

If there are any errors or issues during the process, an error message will be displayed, providing information on what went wrong.



Step 5: Repeat (Optional)

You can send multiple emails by repeating steps 2 to 4 with different content or recipient addresses.

How to Receive Emails using the Email Receiver Script:

Step 1: Launch the Application

Double-click on the Email Receiver application icon to launch it.

Step 2: Enter Your Credentials

In the "Email" field, enter your email address.

In the "Password" field, type your email account password.

Step 3: Click the "Receive" Button:

Once you've entered your email address and password, click on the "Receive" button. This action triggers the script to connect to your email account using secure protocols.

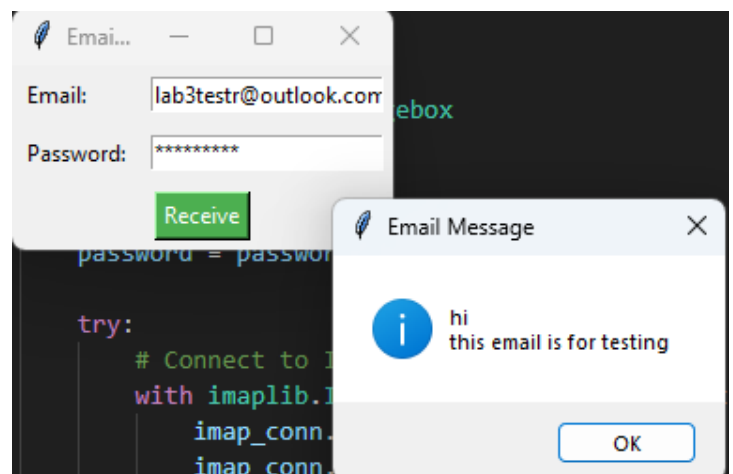
Step 4: Accessing the Email Message:

After clicking "Receive," the script will attempt to fetch the latest email from your inbox.

If successful, a pop-up window will appear displaying the content of the latest email message.

You can read the email message directly from this pop-up window.

In case of any errors during the process, such as incorrect credentials or server issues, an error message will be displayed. Make sure to double-check your email address and password if you encounter any errors.



Step 5: Repeat as Needed

You can repeat this process as many times as necessary to check for new emails. Each time you click "Receive," the script will fetch the latest email from your inbox.

