

# README

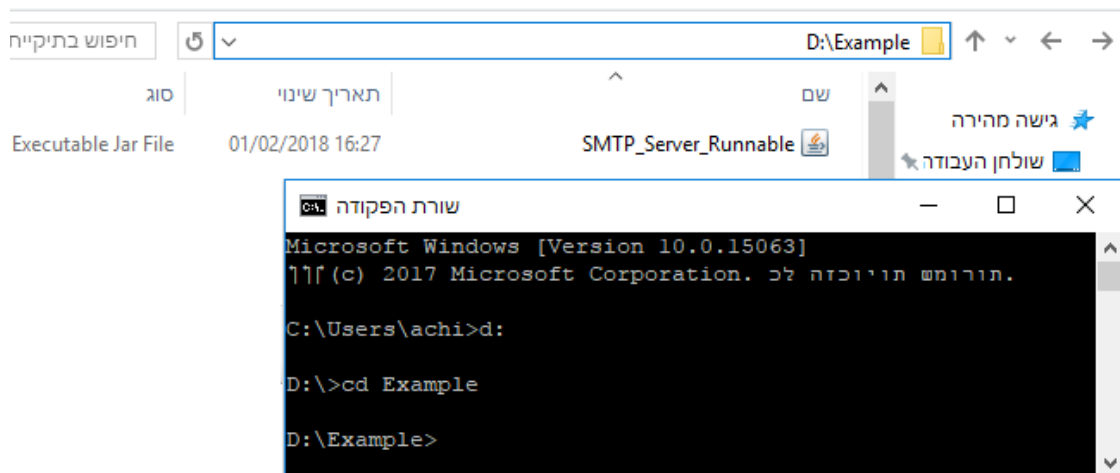
The server program was written entirely in Java. Full source code can be opened as an existing project via Eclipse.

The client program was written entirely in C#. Full source code can be opened as an existing project via Visual Studio 2013 and above.

**Summary:** Part of a SMTP protocol for sending Emails to servers. Client side using GUI with windows form to send Emails. Server side saves Emails as txt files for each destination Email acting as database.

## Server Program

1. Extract the jar file (SMTP\_Server\_Runnable.jar) to any folder of your liking.
2. Route the CMD to the extracted folder:



3. Run the server jar and wait for the response of listening to the port:

```
D:\Example>java -jar SMTP_Server_Runnable.jar  
Listening on: /0.0.0.0:25
```

4. The server is listening to any conversation in the system. The Protocol steps will be shown in the CMD when the server will be receiving an Email.  
\* The email will be saved as TXT file for each “destination” email.

מסמך טקסט	01/02/2018 17:02	adam@heavens.com.txt
מסמך טקסט	01/02/2018 17:02	amazinguy3@notso.much.txt
Executable Jar File	01/02/2018 16:27	SMTP_Server_Runnable.jar

```

ca: שורת הפקודה - java -jar SMTP_Server_Runnable.jar
250 Hello still.need.to.figure.out.com
250 OK
250 OK
250 OK
354 Send message content
From: <example@yay.com>
To: <adam@heavens.com>; <amazinguy3@notso.much>
Subject: a test of SMTP

Hello,

This is the creator, I would like to test the protocol SMTP that I wrote.
Some extra text here.

A little bit here too. 42.
Now lets try to break the protocol. (it won't break).
..
If we broke the protocol this line wont be in the output
Finished receiving the Email data.
250 OK, message accepted for delivery
221 Bye
  
```

5. Open the txt files and see the content on the emails. Emails with the same destination will be appended to the same txt file.

1 KB	מסמך טקסט	01/02/2018 17:02	adam@heavens.com.txt
1 KB	מסמך טקסט	01/02/2018 17:02	amazinguy3@notso.much.txt
14 KB	Executable Jar File	01/02/2018 16:27	SMTP_Server_Runnable.jar

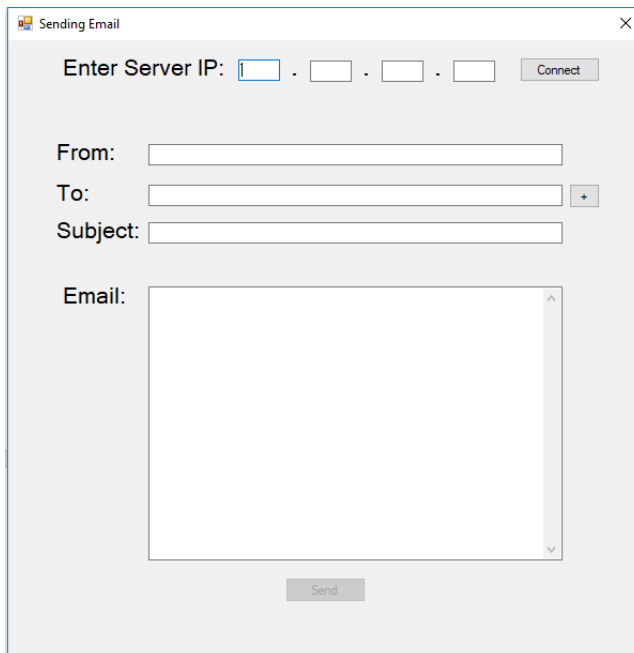
  

```

D:\Example\amazinguy3@notso.much.txt - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
amazinguy3@notso.much.txt
1 From: <example@yay.com>
2 To: <adam@heavens.com>; <amazinguy3@notso.much>
3 Subject: a test of SMTP
4
5 Hello,
6
7 This is the creator, I would like to test the protocol SMTP that I wrote.
8 Some extra text here.
9
10 A little bit here too. 42.
11 Now lets try to break the protocol. (it won't break).
12 .
13 If we broke the protocol this line wont be in the output
14 <!--@END OF EMAIL@--!>
  
```

## Client program

1. Extract the exe (SMTP\_Client.exe) file to any folder of your liking.
2. Run the SMTP\_Client.exe file, the following window will be opened:



The screenshot shows a window titled "Sending Email". It has a "Connect" button next to the "Enter Server IP" field. Below this are fields for "From:", "To:", "Subject:", and a large text area for "Email:". A "Send" button is located at the bottom center.

3. Enter the IP of the servers program and press "Connect". Input correctness will be checked.

- a. If the server is working you will receive success message:



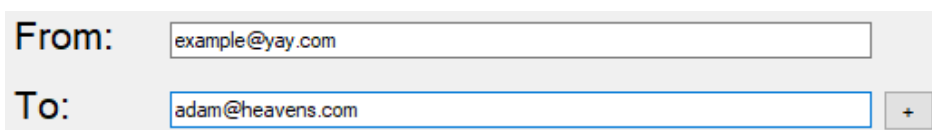
The screenshot shows the "Enter Server IP" field with the IP address 10.0.17.5 entered. The "Connect" button is highlighted. Below the field, a blue message reads "Connected to Server: 10.0.17.5".

- b. If the server is not connected or wrong IP you will receive error message:



The screenshot shows the "Enter Server IP" field with the IP address 10.0.17.4 entered. The "Connect" button is highlighted. Below the field, a red message reads "Server un-available."

4. Fill the "From" and "To" email addresses incase the connection was successful.



The screenshot shows the "From:" field with the email address "example@yay.com" and the "To:" field with the email address "adam@heavens.com". A "+" button is next to the "To:" field.

- a. (Optional) add more than one destination Emails by pressing the ‘+’ button or manually typing ‘;’ between the email addresses.

To:

5. Enter the subject of the Email in the “Subject” field.
6. Fill the content of the Email and press “Send”. Input of Email correctness will be checked. If the mail was sent successfully and server did not disconnect we will receive a success msg.

Email Succssesfully sent.