



Network Programming

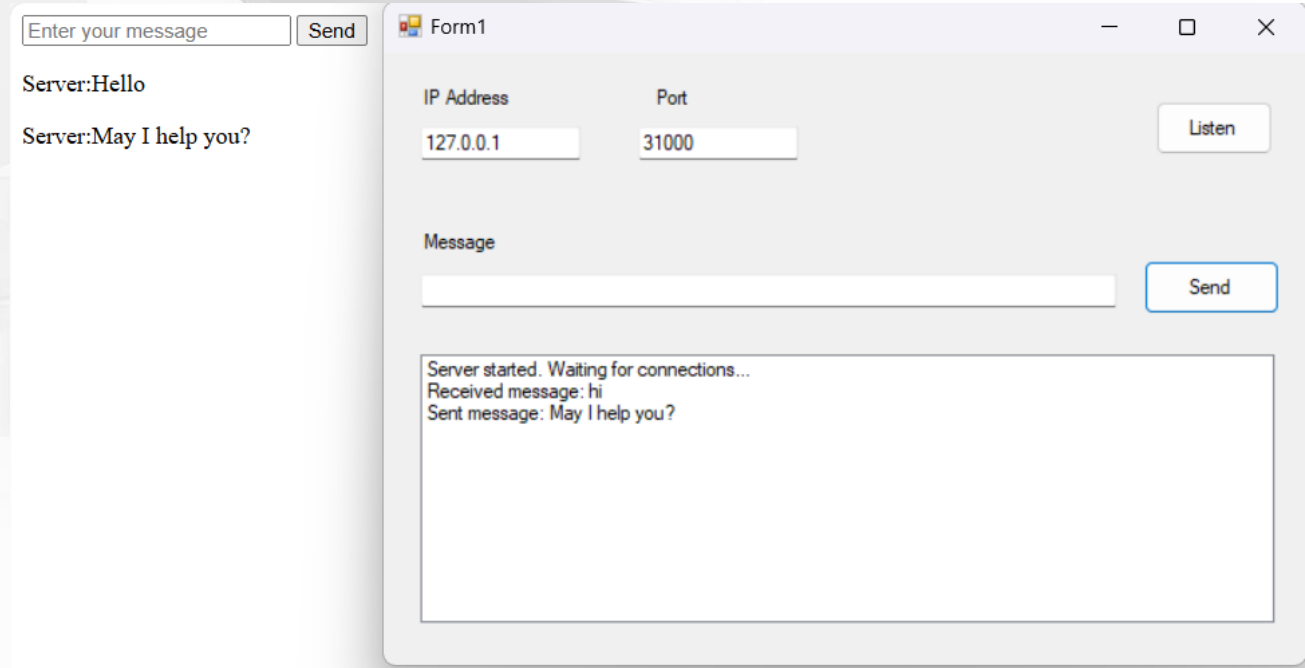
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Lab 4



Assignment 1

Write a chat program using websocket.



The image shows two windows from a chat application. The left window is a client interface with a text input field labeled 'Enter your message' and a 'Send' button. Below the input, it displays two server messages: 'Server:Hello' and 'Server:May I help you?'. The right window, titled 'Form1', is the server interface. It has two input fields for 'IP Address' (containing '127.0.0.1') and 'Port' (containing '31000'), followed by a 'Listen' button. Below these is a 'Message' label and a text input field with a 'Send' button. At the bottom of the 'Form1' window is a text area containing the following log: 'Server started. Waiting for connections...', 'Received message: hi', and 'Sent message: May I help you?'.

Enter your message

Server:Hello
Server:May I help you?

Form1

IP Address Port

Message

Server started. Waiting for connections...
Received message: hi
Sent message: May I help you?

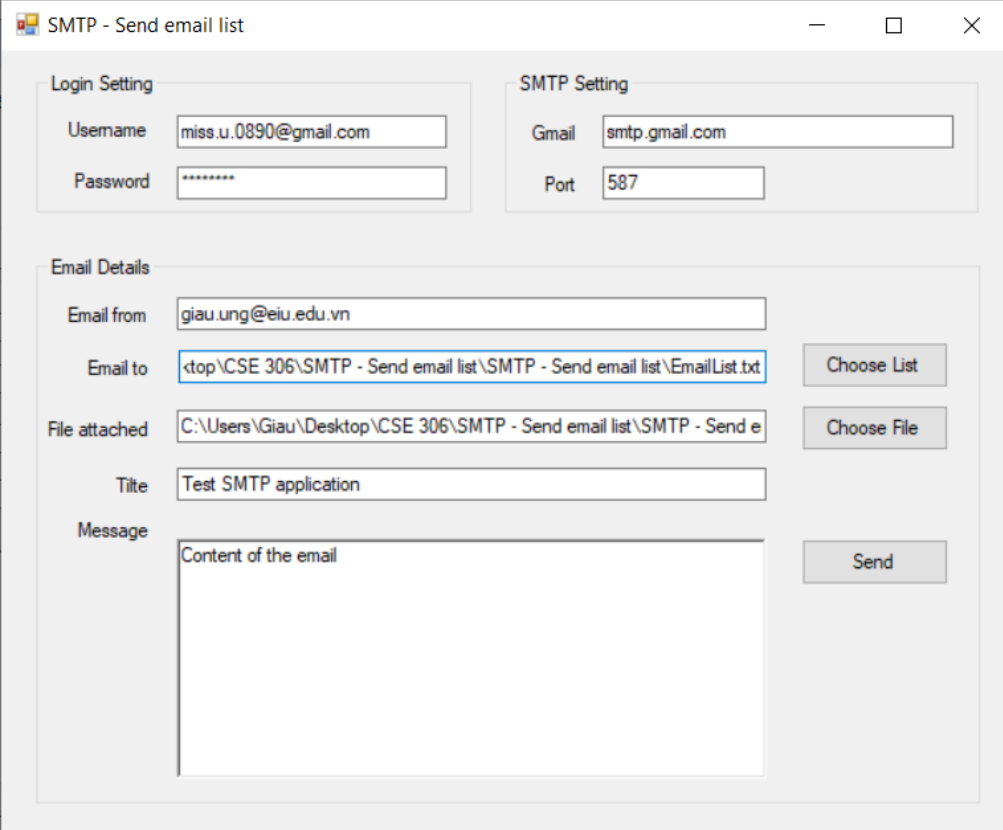
Assignment 2

Sending email

Write a program using SMTP to send an email to email addresses.

Use:

- SMTPClient
- Mail Kit



SMTP - Send email list

Login Setting

Username miss.u.0890@gmail.com

Password *****

SMTP Setting

Gmail smtp.gmail.com

Port 587

Email Details

Email from giau.ung@eiu.edu.vn

Email to <top\CSE 306\SMTP - Send email list\SMTP - Send email list\EmailList.txt> Choose List

File attached C:\Users\Giau\Desktop\CSE 306\SMTP - Send email list\SMTP - Send e Choose File

Title Test SMTP application

Message

Content of the email

Send

Assignment 3

Write a program which can connect to a FTP server app to implement the following functions:

- Log in
- Download File
- List files and folders in both client and server side

Assignment 3

The screenshot shows a web application titled "Windows Manager" with a standard window frame (minimize, maximize, close buttons). The interface is divided into several sections:

- Top Left:** Fields for "Server" (ftp://127.0.0.1), "User name" (anonymous), "Port" (21), and "Password". A "Log in" button is to the right of the password field.
- Top Right:** A "Status" section with a large empty text area.
- Middle Left:** A "Path" input field.
- Middle Right:** A "Path" input field.
- Bottom Left:** A "Tree View" showing a directory structure with "C" and "D" drives.
- Bottom Center:** A vertical stack of buttons: "Upload", "Download", "Delete", and "Rename".
- Bottom Right:** Two sections, "Folders" and "Files", each with a large empty text area. A "Back" button is positioned between them.