

SW409 Advanced Programming in Java  
Example of Runs for Final Project  
*<Group Chatting Room>*

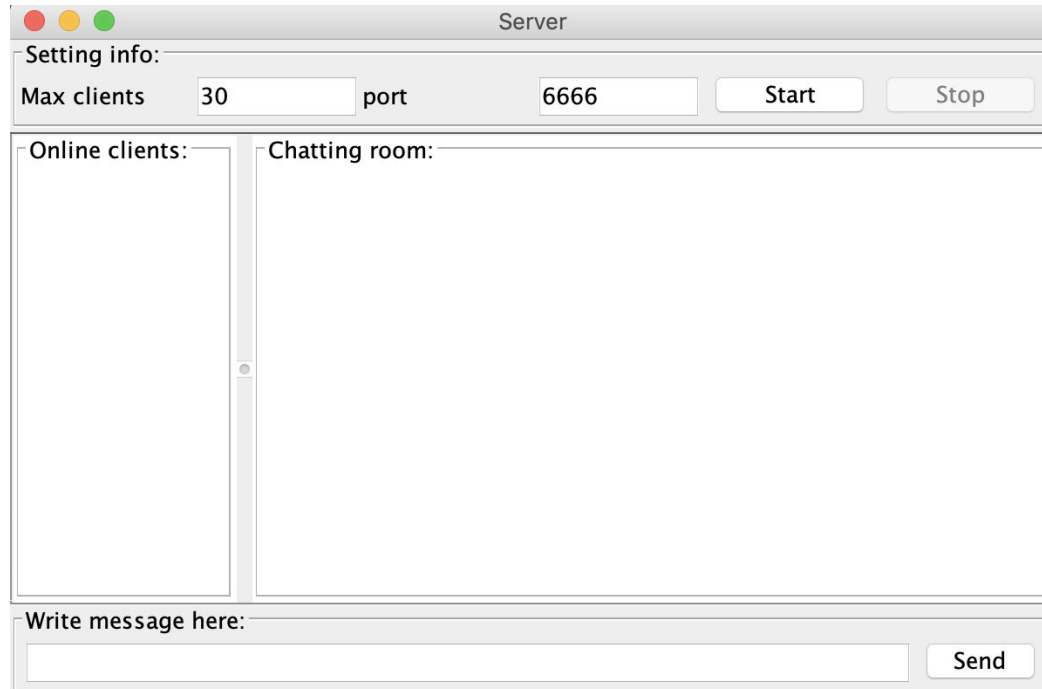
Semester: Fall 2018

Name: Yifei Li

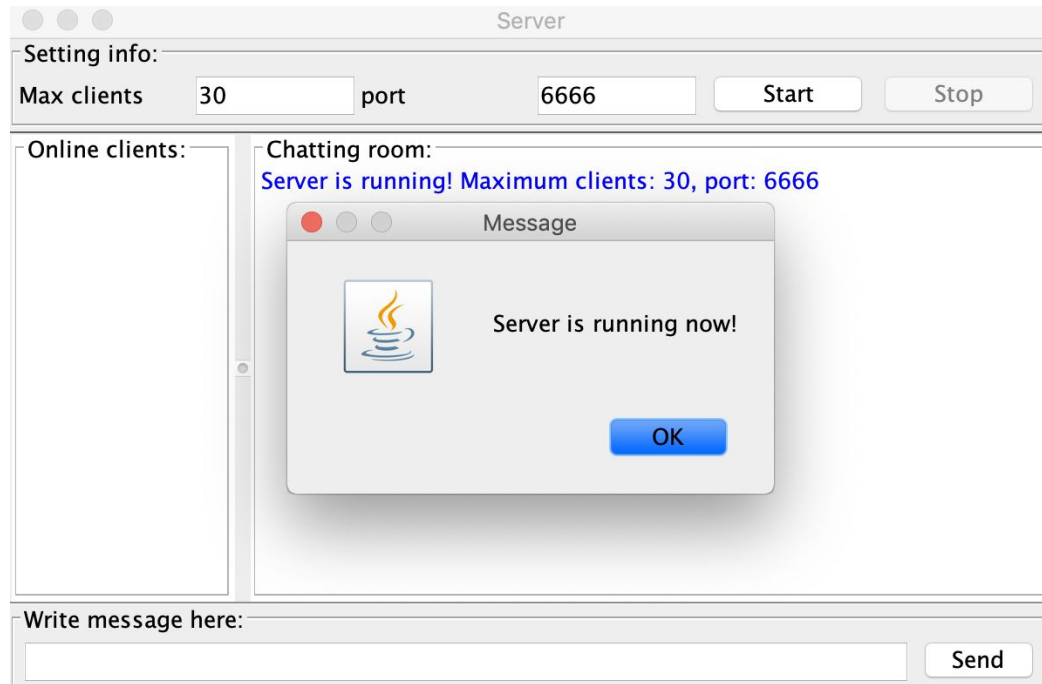
Due date: 12/13/2018 10:00pm

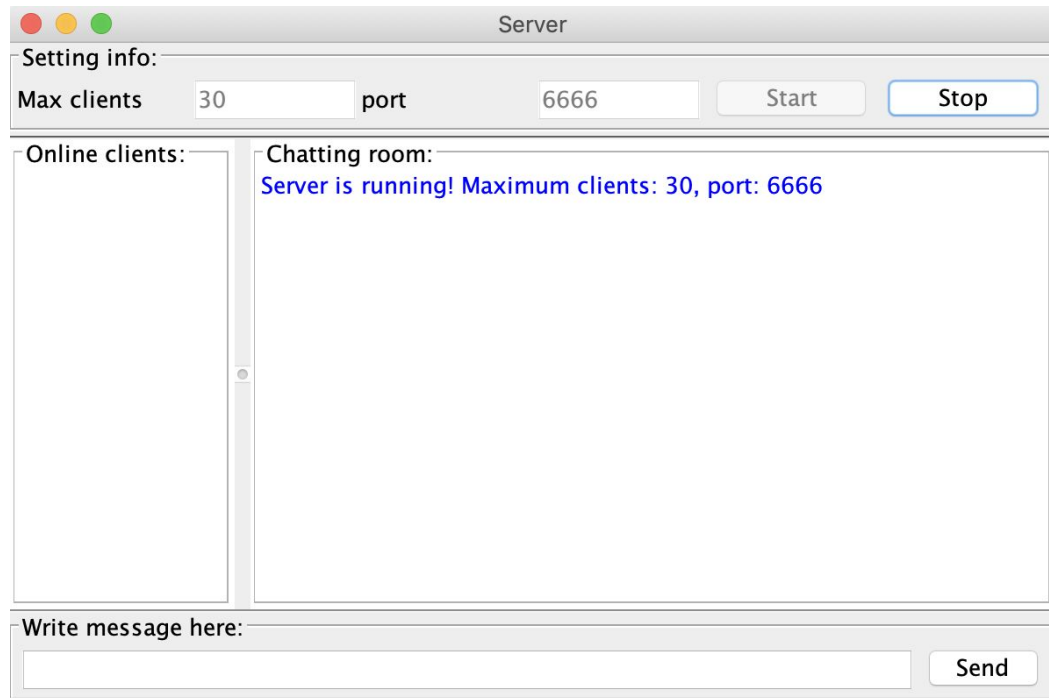
## 1. Server GUI

### 1.1 Server GUI overview



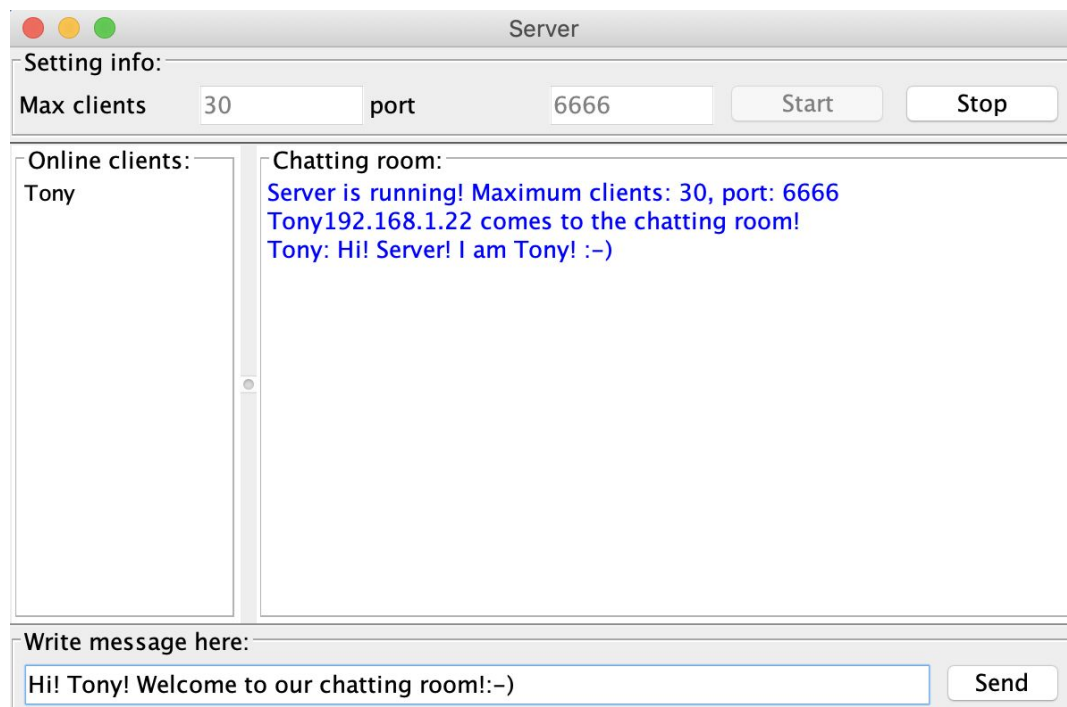
### 1.2 Start connection-Press "Start" button



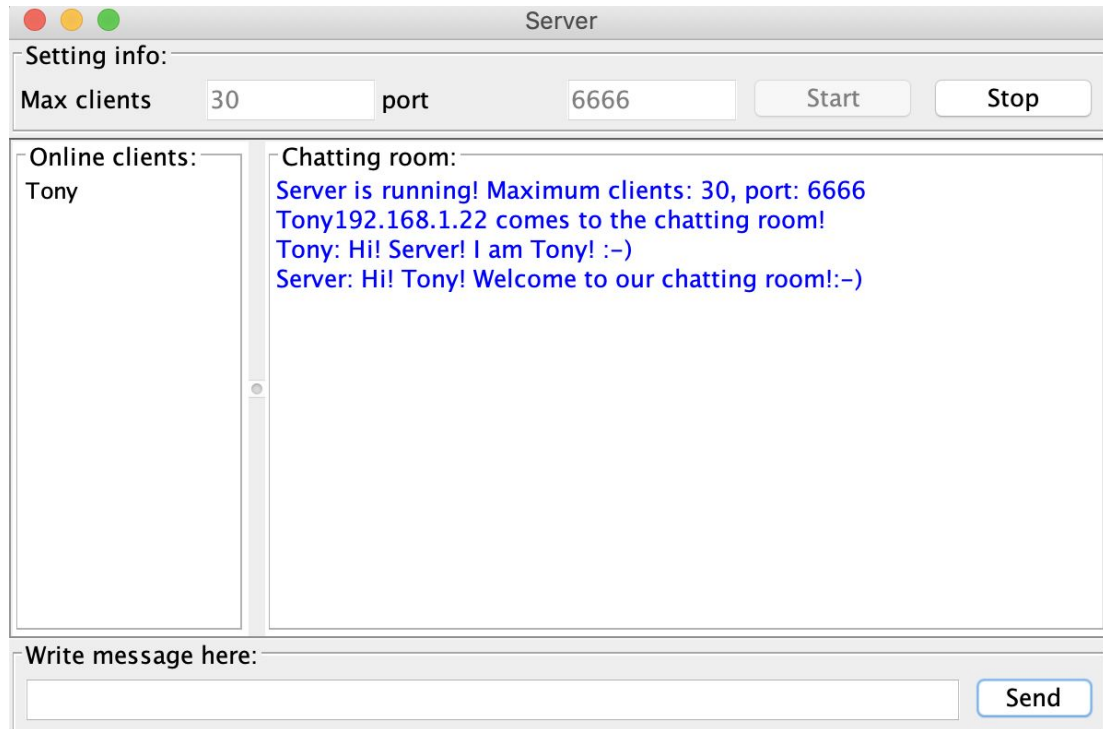


## 1.3 Chat: one client

### 1.3.1 Receive Message & Typing Message

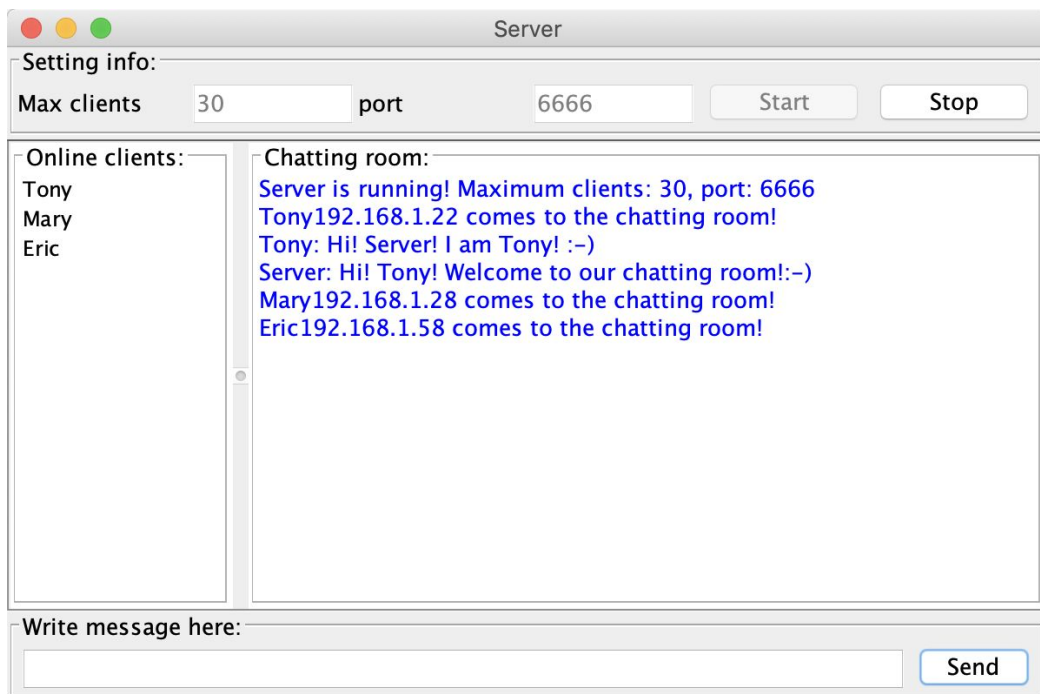


1.3.2 Send Message-Press “Send” button or Press “Enter/return” button on keyboard



## 1.4 Chat: many clients (Tony, Mary, Eric)

1.4.1 Automatically get message from system that the new client comes once the new client connects to server successfully. All the con



nected

clients are listed on the left in the "Online clients:" panel.

1.4.2 Message always send to all clients. Everyone in the chatting room could see server's message.

Client: Tony

The screenshot shows a chat client window titled "Tony". At the top, there are three colored window control buttons (red, yellow, green). Below the title bar, the text "Connection info:" is displayed. Underneath, there are four input fields: "Port" with the value "6666", "Server IP" with the value "192.168.1", "Name" with the value "Tony", and two buttons labeled "Start" and "Stop". The main area of the window is divided into two panes. The left pane, titled "Online clients:", contains a list of names: "Tony", "Tony", "Mary", and "Eric". The right pane, titled "Chatting room:", contains a log of messages in blue text: "Tony192.168.1.22 is connected to the server now!", "Tony: Hi! Server! I am Tony! :-)", "Server: Hi! Tony! Welcome to our chatting room!:-)", and "Server: Hi! We have got three friends in our chatting room now!:-)". At the bottom of the window, there is a text input field labeled "Write message here:" and a "Send" button.

Client: Eric

Eric

Connection info:

Port	6666	Server IP	192.168.1.22	Name	Eric	Start	Stop
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Online clients:

Eric

Mary

Tony

Eric

Chatting room:

Eric192.168.1.58 is connected to the server now!

Server: Hi! We have got three friends in our chatting room now!:-)

Write message here:

Send

Client: Mary

Mary

Connection info:

Port	6666	Server IP	192.168.1.2	Name	Mary	Start	Stop
------	------	-----------	-------------	------	------	-------	------

Online clients:

Mary

Tony

Mary

Eric

Chatting room:

Mary192.168.1.28 is connected to the server now!

Server: Hi! We have got three friends in our chatting room now!:-)

Write message here:

Send

### 1.4.3 Group Chatting

## Client: Tony

Tony

Connection info:  
Port  Server IP  Name

Online clients:  
Tony  
Tony  
Mary  
Eric

Chatting room:  
Tony192.168.1.22 is connected to the server now!  
Tony: Hi! Server! I am Tony! :-)  
Server: Hi! Tony! Welcome to our chatting room!:-)  
Server: Hi! We have got three friends in our chatting room now!:-)  
Tony: Hi Mary! Would you like to have dinner with me?  
Mary: Sorry Tony! I am busy doing homework now! I'll go with you next tir  
Eric: Mary, you need a break! Don't always sit in front of computer. Go wit  
Tony: Thanks Eric!  
Mary: Alright! Let's go!

Write message here:

## Client: Eric

Eric

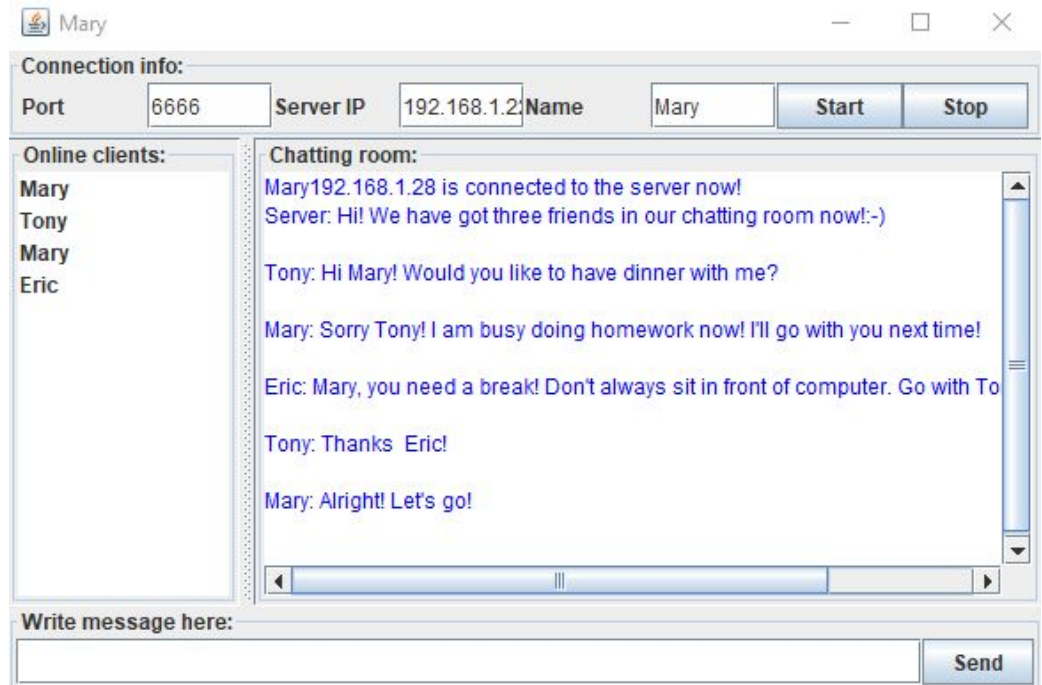
Connection info:  
Port  Server IP  Name

Online clients:  
Eric  
Mary  
Tony  
Eric

Chatting room:  
Eric192.168.1.58 is connected to the server now!  
Server: Hi! We have got three friends in our chatting room now!:-)  
Tony: Hi Mary! Would you like to have dinner with me?  
Mary: Sorry Tony! I am busy doing homework now! I'll go with you next time!  
Eric: Mary, you need a break! Don't always sit in front of computer. Go with Tony! He is a good guy!  
Tony: Thanks Eric!  
Mary: Alright! Let's go!

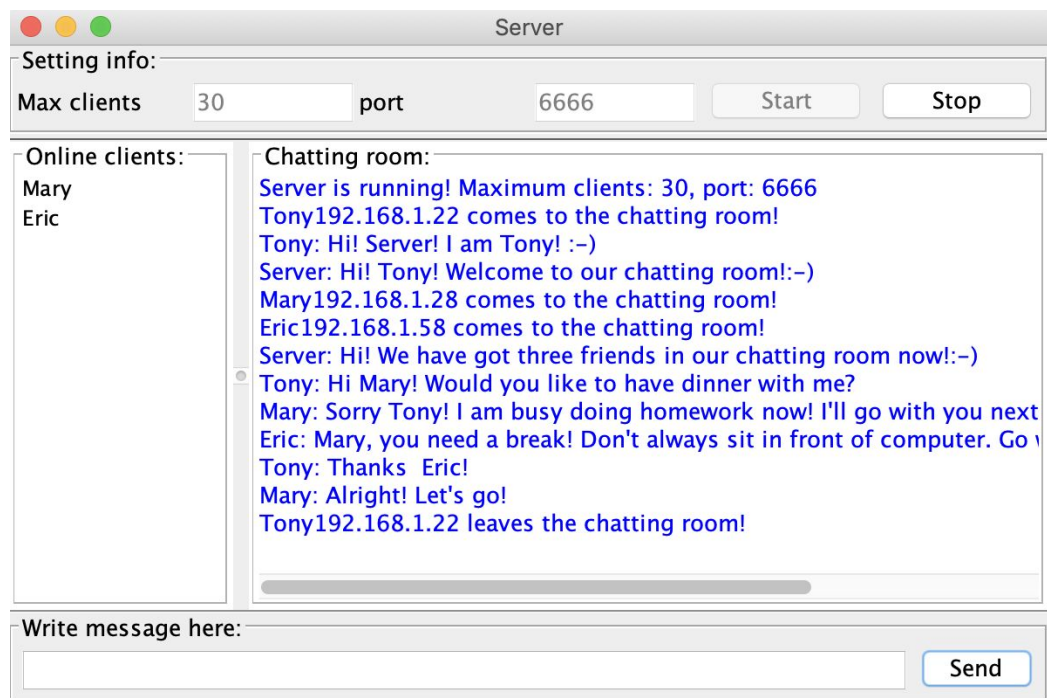
Write message here:

## Client: Mary



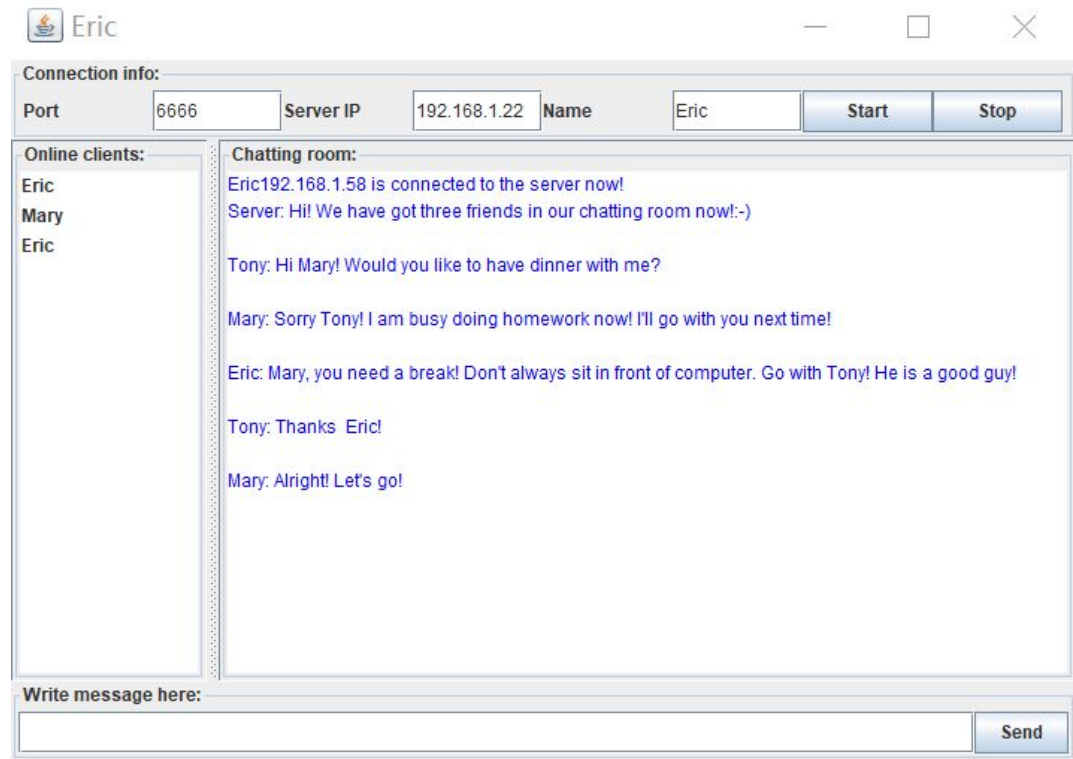
1.4.3 No matter who leaves, the system will automatically get a message about the person's leaving. The "Online lists" of server GUI and the "Online lists" of all the clients GUI will all be updated.

Client Tony leaves

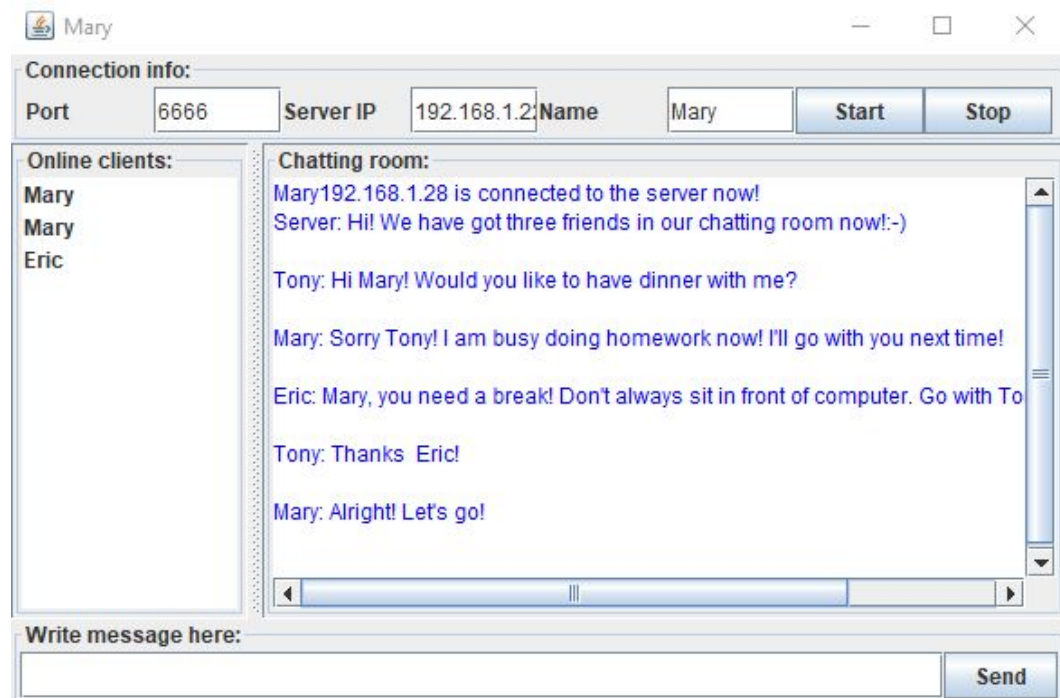


Client: Eric's Online lists updated



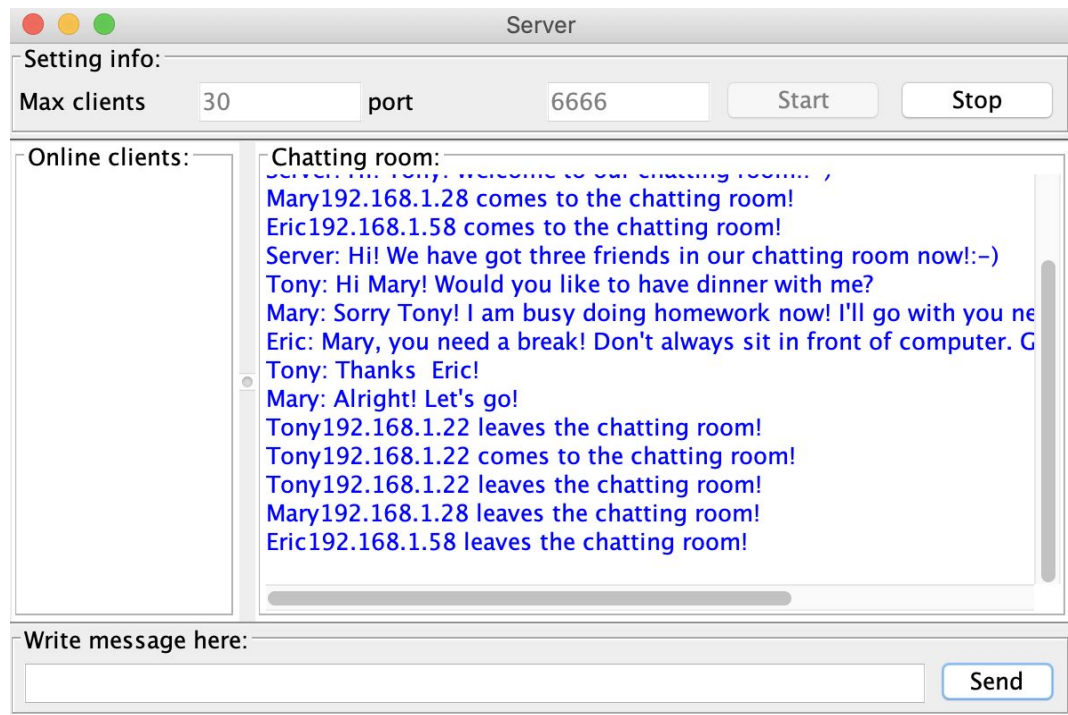


Client: Mary's Online lists updated

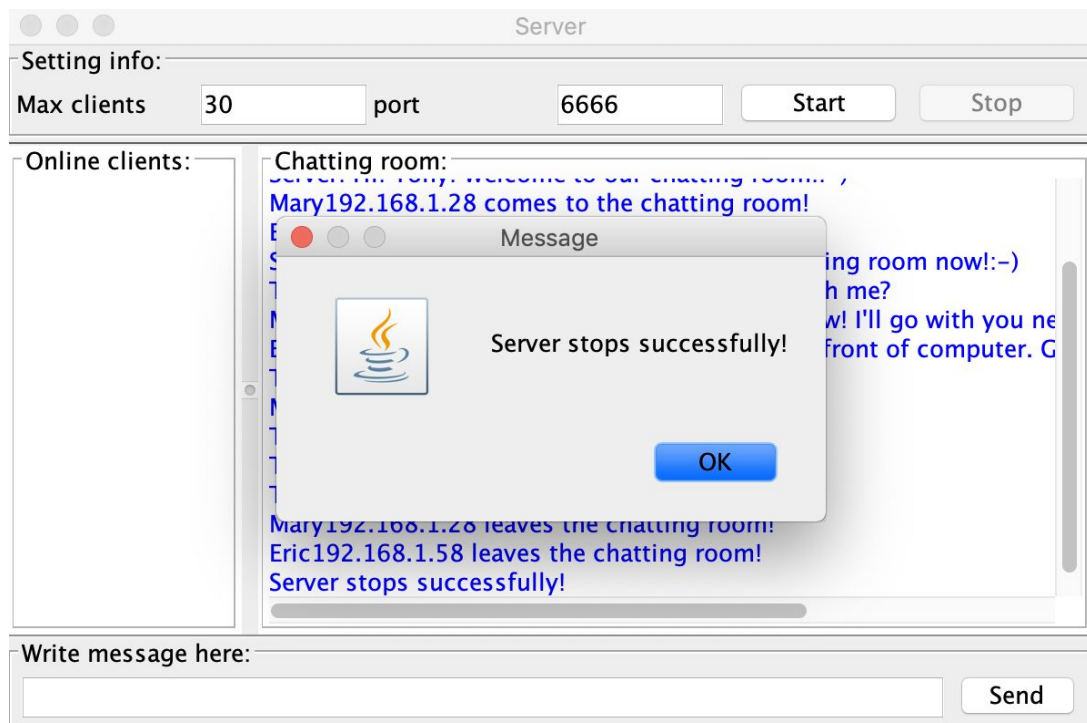


1.5 Stop connection-Press "Stop" button

All the clients have left

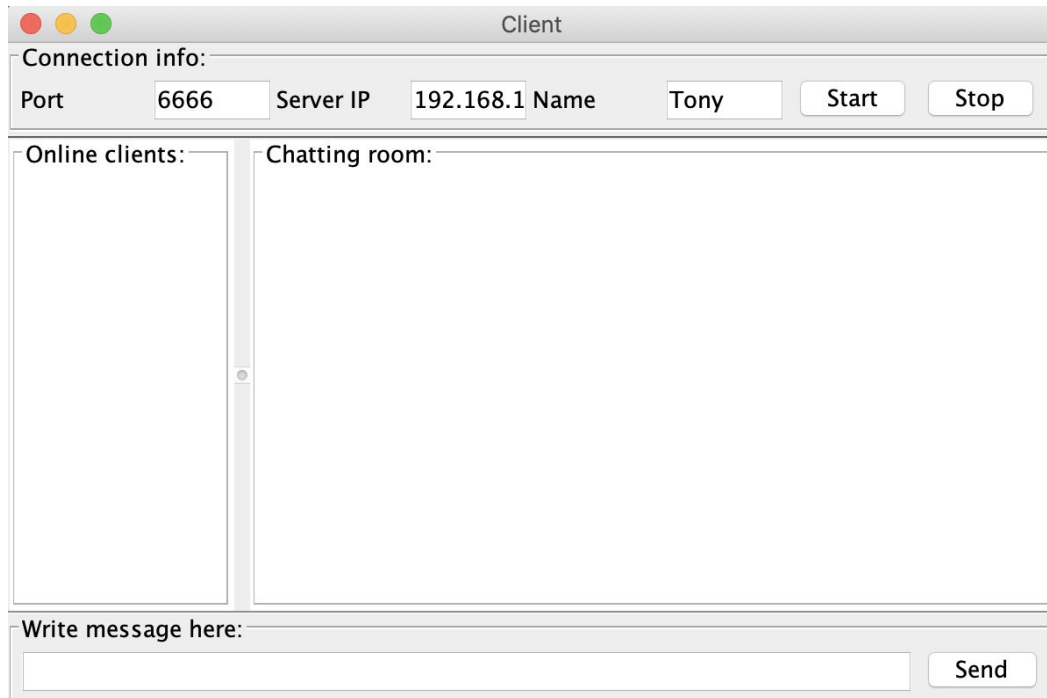


## Stop Server

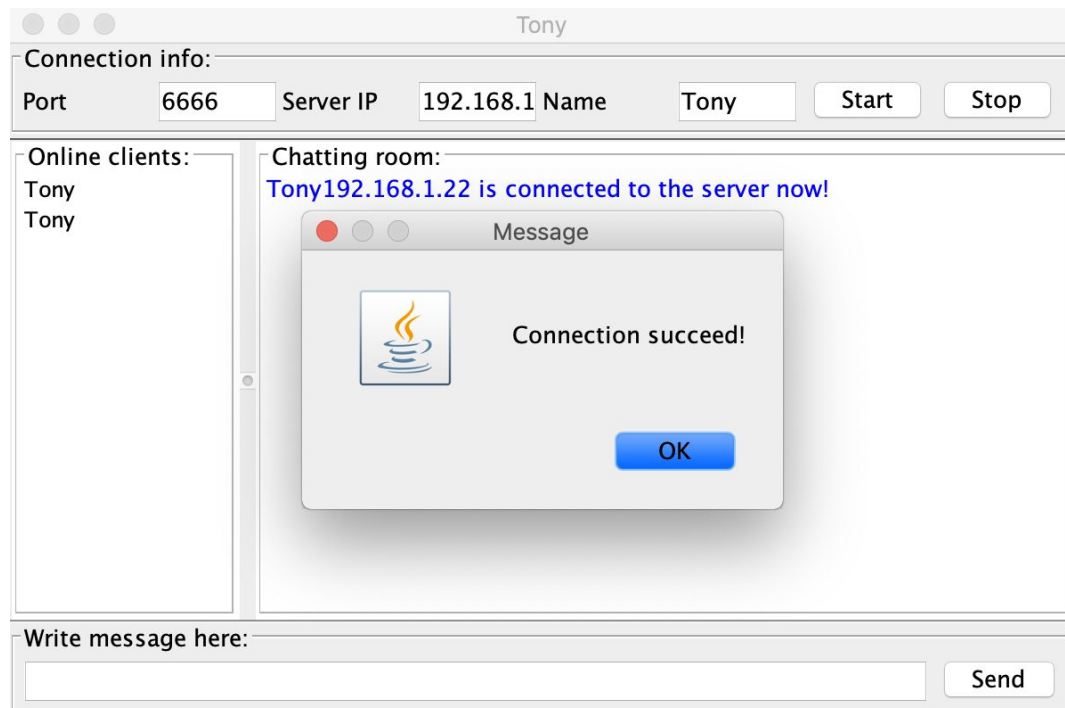


## 2. Client GUI

### 2.1 Client GUI overview



## 2.2 Start connection-Press “Start” button



## 2.3 Chat

### 2.3.1 Typing Message

Tony

Connection info:

Port  Server IP  Name

Online clients:

Tony  
Tony

Chatting room:

Tony192.168.1.22 is connected to the server now!

Write message here:

2.3.2 Send Message-Press “Send” button or Press “Enter/return” button on keyboard & Receive Message

Tony

Connection info:

Port  Server IP  Name

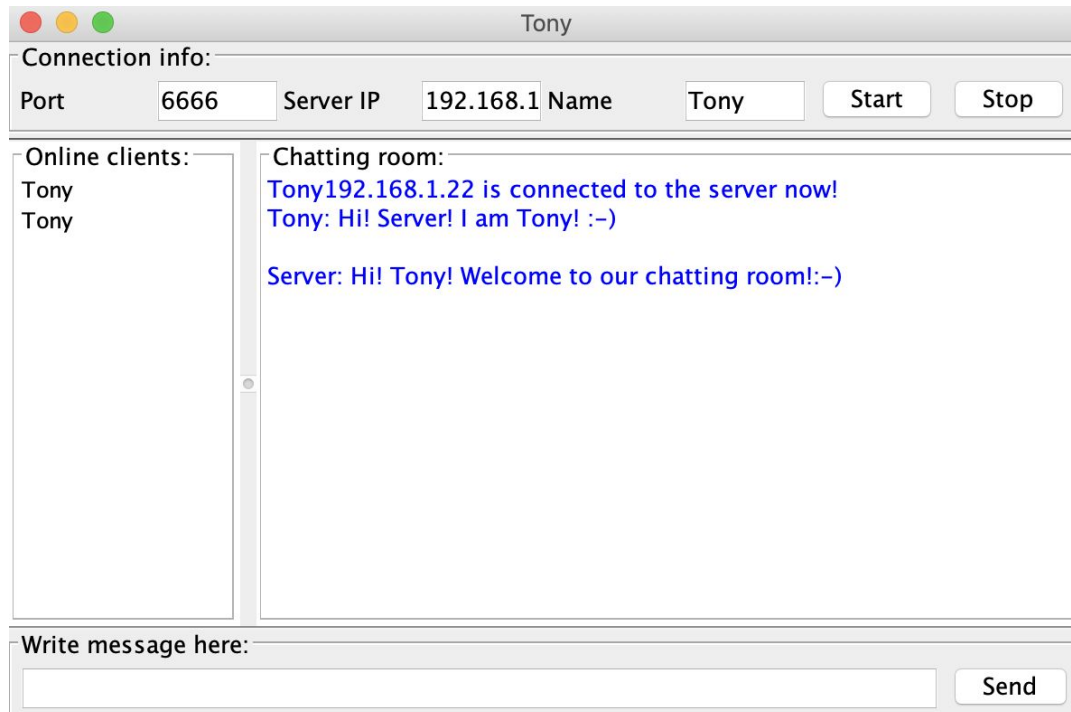
Online clients:

Tony  
Tony

Chatting room:

Tony192.168.1.22 is connected to the server now!  
Tony: Hi! Server! I am Tony! :-)

Write message here:



## 2.4 Stop connection-Press “Stop” button

