

Lập trình ứng dụng java

Hướng dẫn setup project

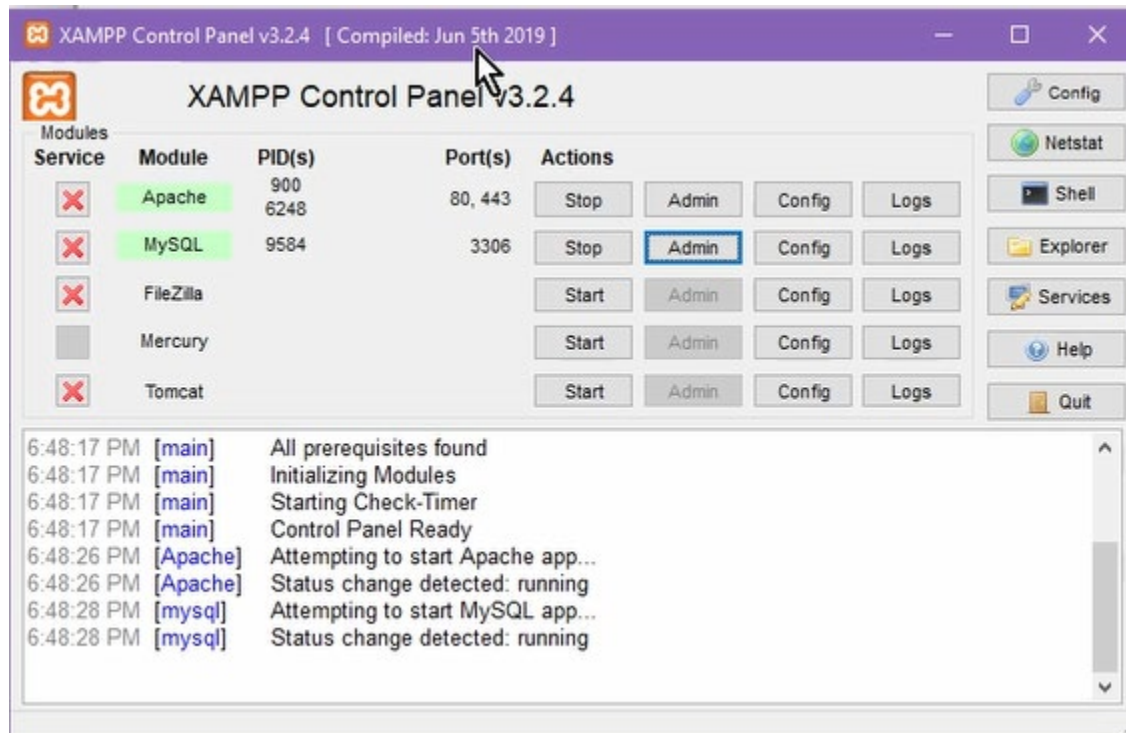
- Link Youtube xem trực tuyến có thuyết trình về setup project:
<https://youtu.be/G2tBgJnHybo>

Phần setup database:

- Database yêu cầu: **MySQL**
- Phần mềm sử dụng trong hướng dẫn: **xampp v3.2.4**

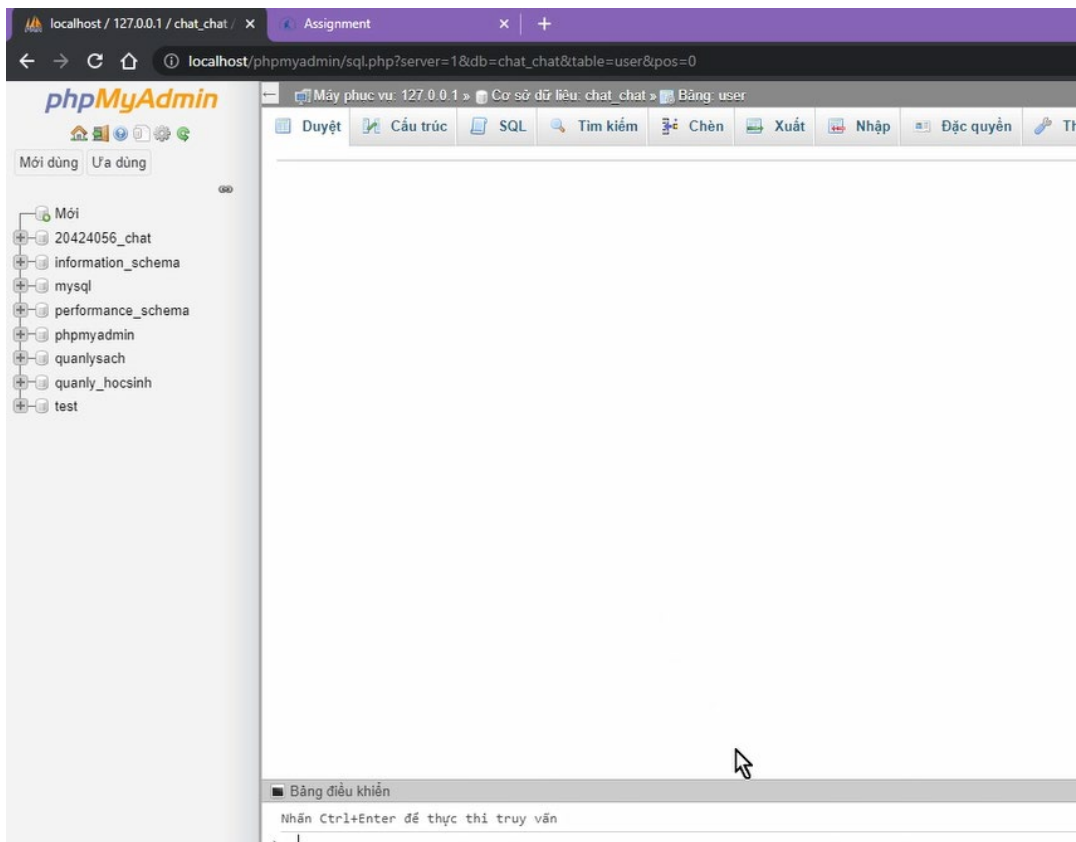
Chạy phần mềm xampp, start các service:

- Apache (port 80, 443)
- MySQL (port 3306)

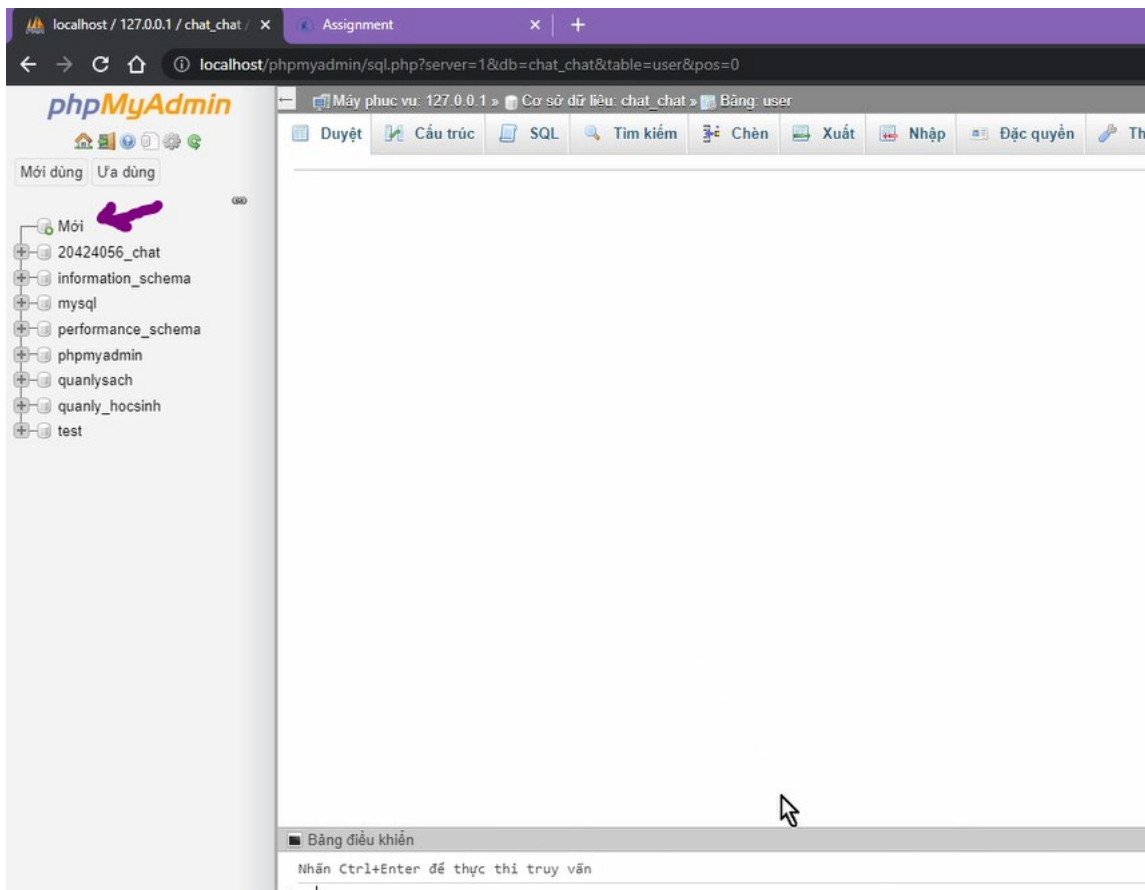


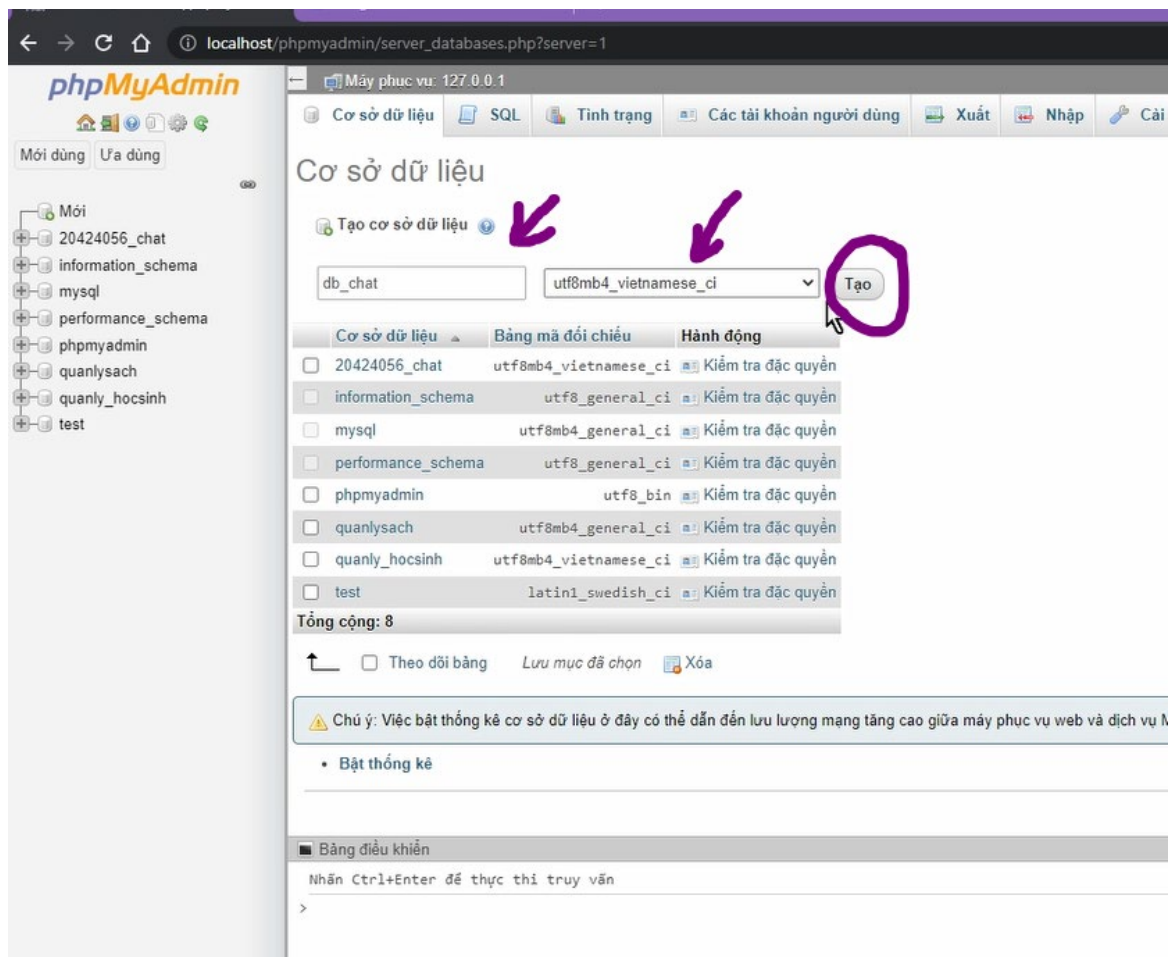
- Mở phpMyAdmin
- Đăng nhập với tài khoản và mật khẩu (ở đây là "root"/"")

- Hình ảnh sau khi đăng nhập:

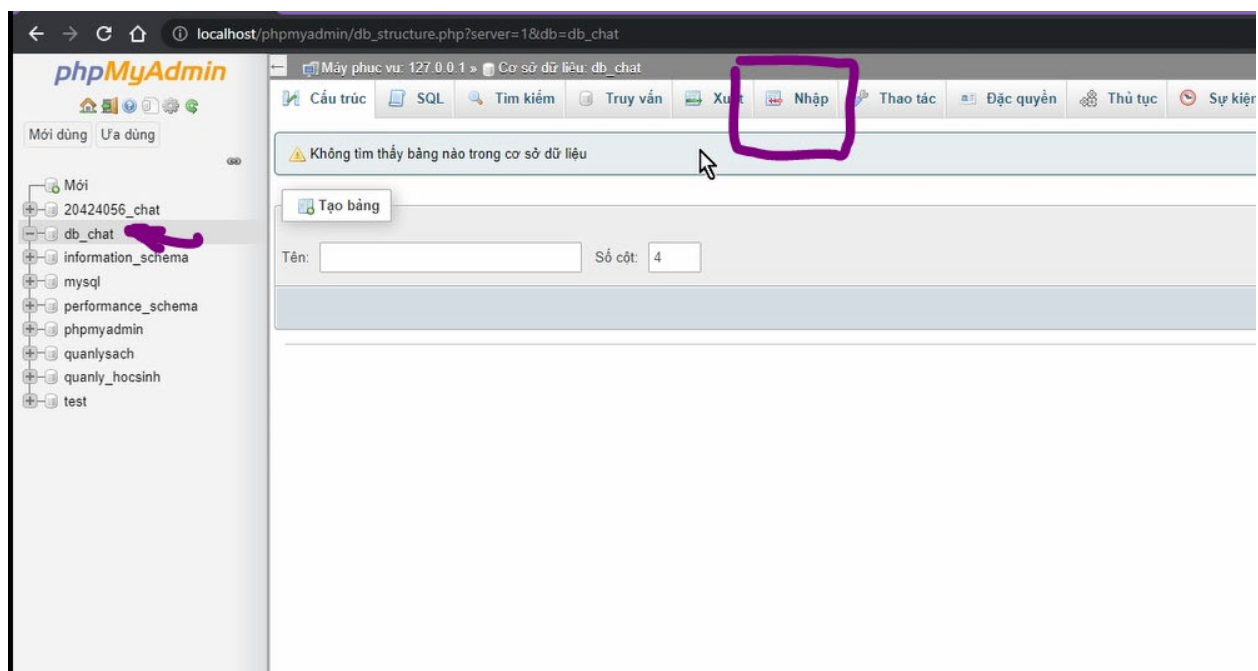


- Bấm nút tạo DB mới, tên tùy chọn (ở đây sẽ đặt là “db_chat”)

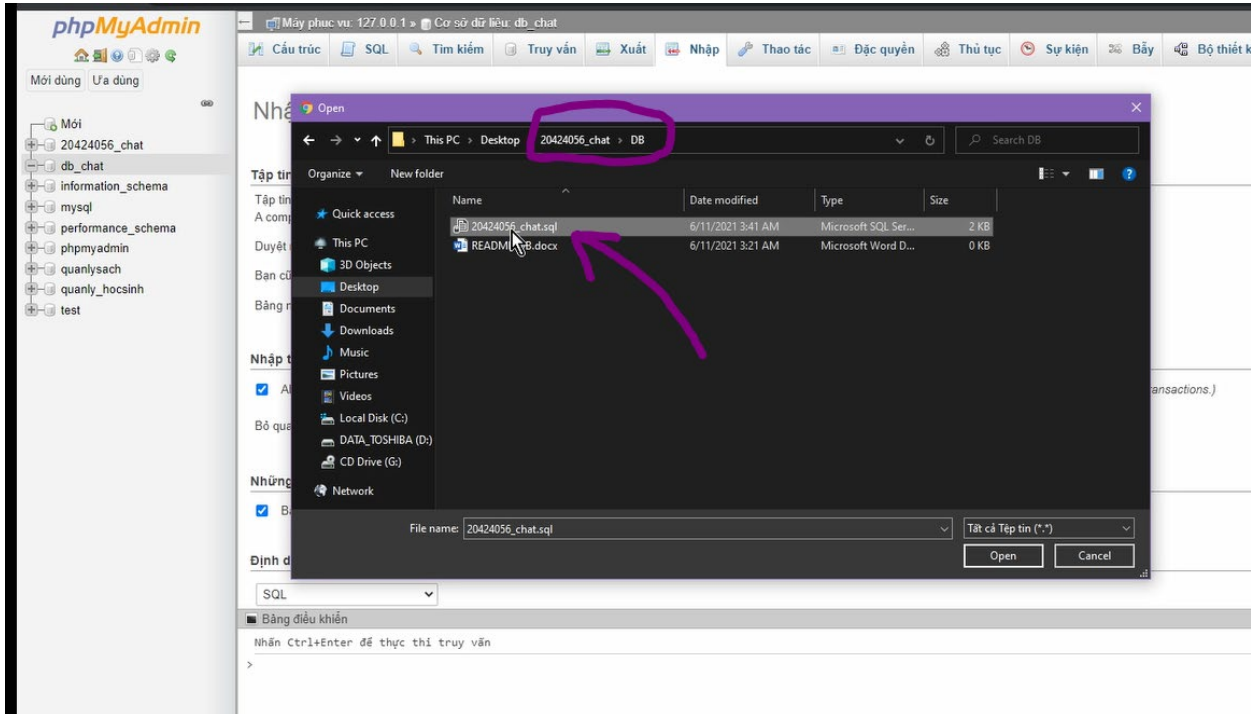




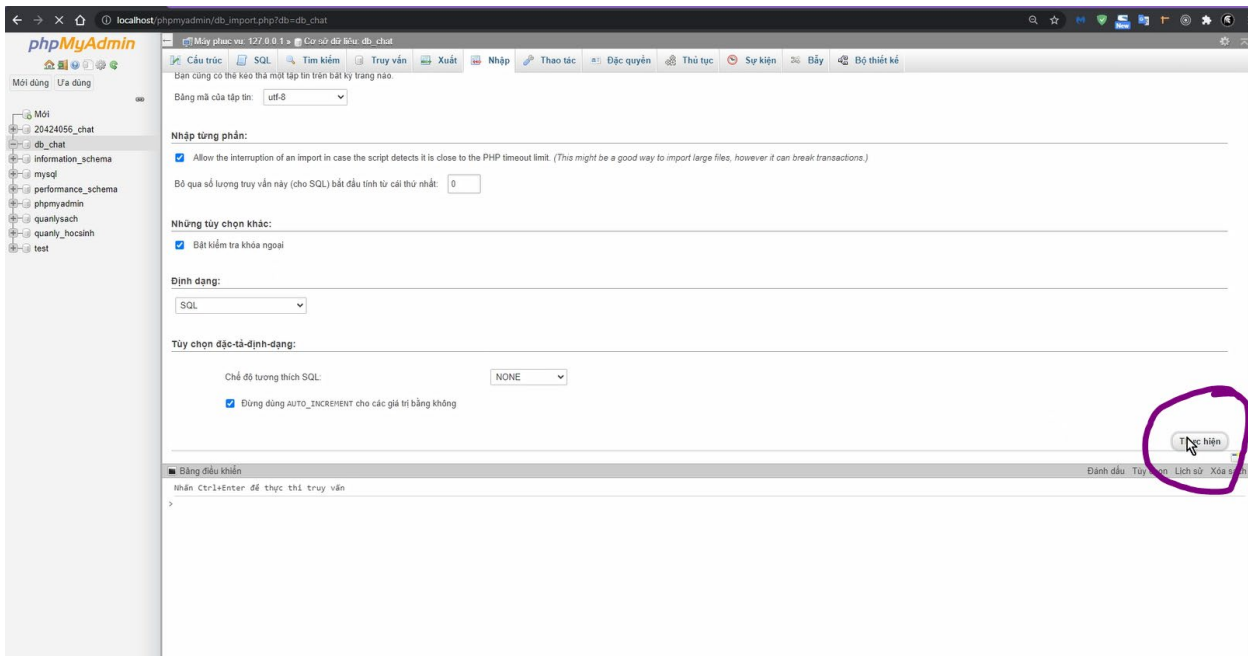
- Chọn vào DB vừa tạo (db_chat), bấm nút Import (Nhập)



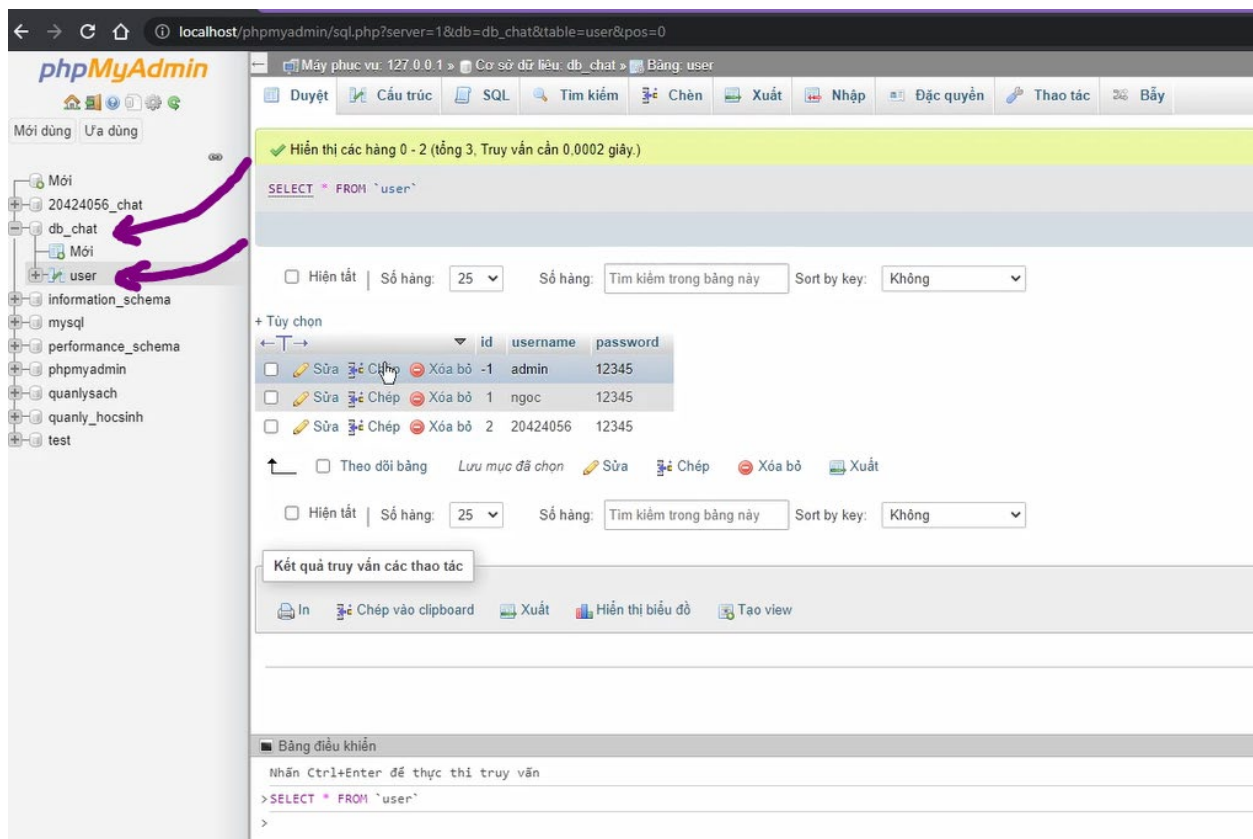
- Giao diện hiển thị 1 khung chọn file, chọn tới đường dẫn file .sql kèm theo của Sinh viên (**20424056_chat/DB/20424056_chat.sql**)



- Sau khi chọn bấm nút Excute (thực thi)

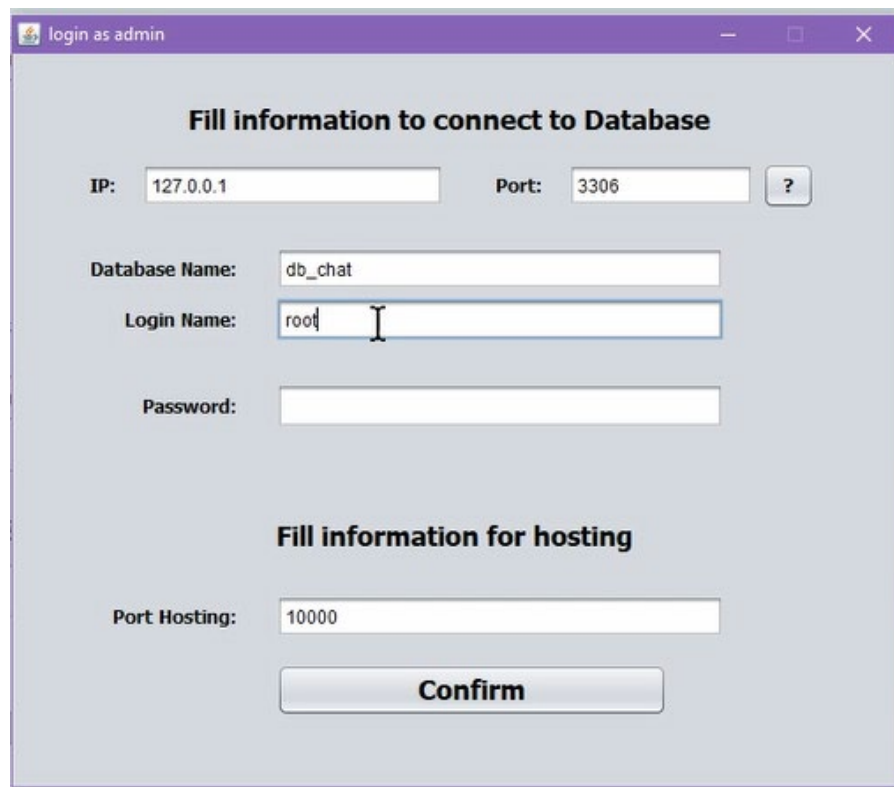


- Vậy là hoàn tất import Database.
- Trong database sẽ có 1 bảng user có 3 hàng dữ liệu mẫu như hình.



Chạy demo ứng dụng:

Khởi chạy server, vào giao diện login, điền các thông tin kết nối tới DB cũng như port để host cho cách client kết nối vào



Bấm nút “confirm” để kết nối

Kết nối thành công

login as admin

Fill information to connect to Database

IP: Port: ?

Database Name:

Login Name:

Password:

Notifications

Connected Successfully!

OK

Fill information for hosting

Port Hosting:

Confirm

Sau khi kết nối thành công sẽ hiển thị giao diện log của server, cũng như các thông tin của server (hostName, port, IP...)

SERVER

Server hostname/IP: GHOST8250/192.168.0.105

Listening port: 10000

Server logs:

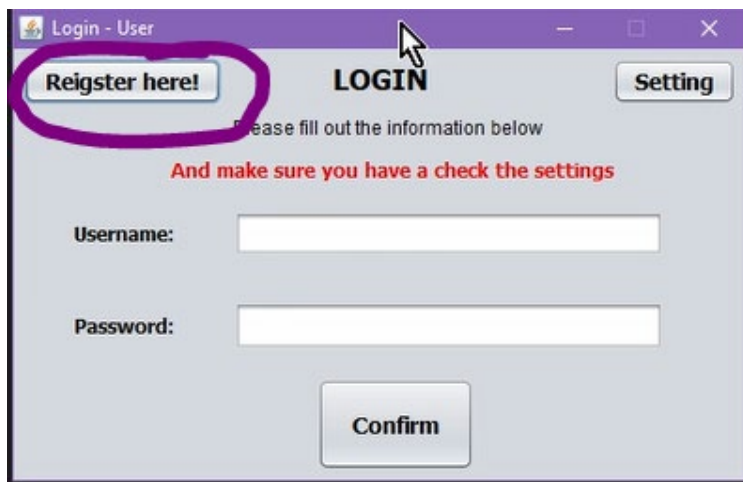
Server is listening on port 10000

Tiến hành mở giao diện client thứ 1




The screenshot shows a window titled "Login - User" with a purple header. It contains three buttons at the top: "Reigster here!", "LOGIN", and "Setting". Below the buttons, there is a text prompt "Please fill out the information below" and a red instruction "And make sure you have a check the settings". The form includes two input fields: "Username:" and "Password:". At the bottom, there is a "Confirm" button. A mouse cursor is pointing at the "LOGIN" button.

Để đăng ký tài khoản mới, bấm “register here!”



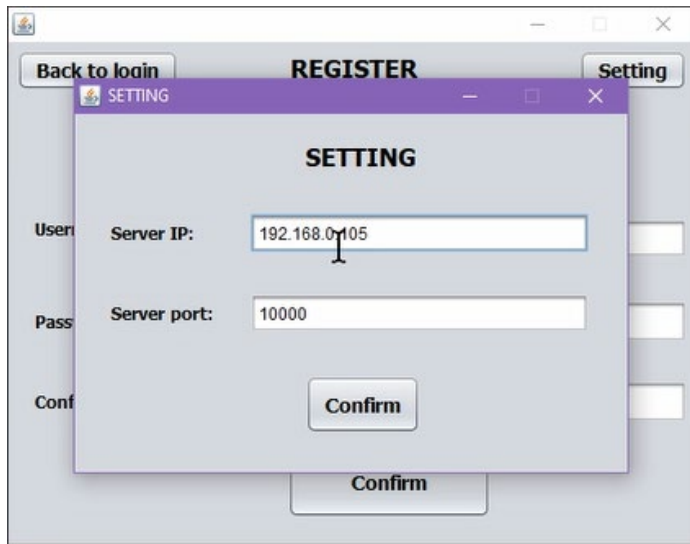
This screenshot is identical to the previous one, but the "Reigster here!" button is circled in purple to indicate it should be clicked for registration.

Giao diện đăng ký sẽ được bật

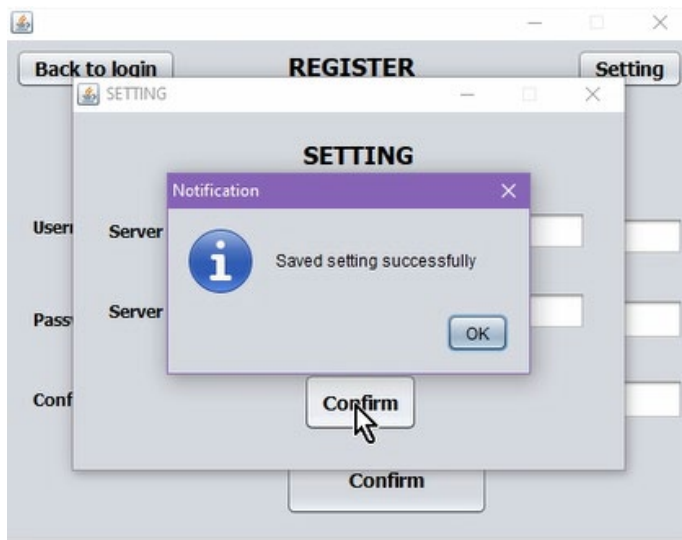


The screenshot shows a window titled "REGISTER" with a purple header. It contains two buttons at the top: "Back to login" and "Setting". Below the buttons, there is a text prompt "Please fill out the information below" and a red instruction "And make sure you have a check the settings". The form includes three input fields: "Username:", "Password:", and "Confirm password:". At the bottom, there is a "Confirm" button. A mouse cursor is pointing at the "Username:" input field.

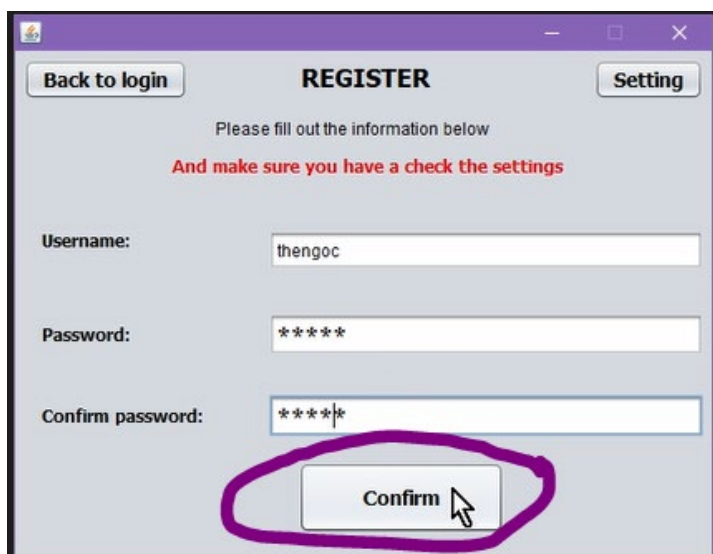
Vì client 1 chưa setting, ta bật giao diện setting bằng cách bấm nút “setting” (ở login cũng có nút này), nhập các thông tin như IP: 192.168.0.105, port là 10000, bấm confirm để lưu lại.



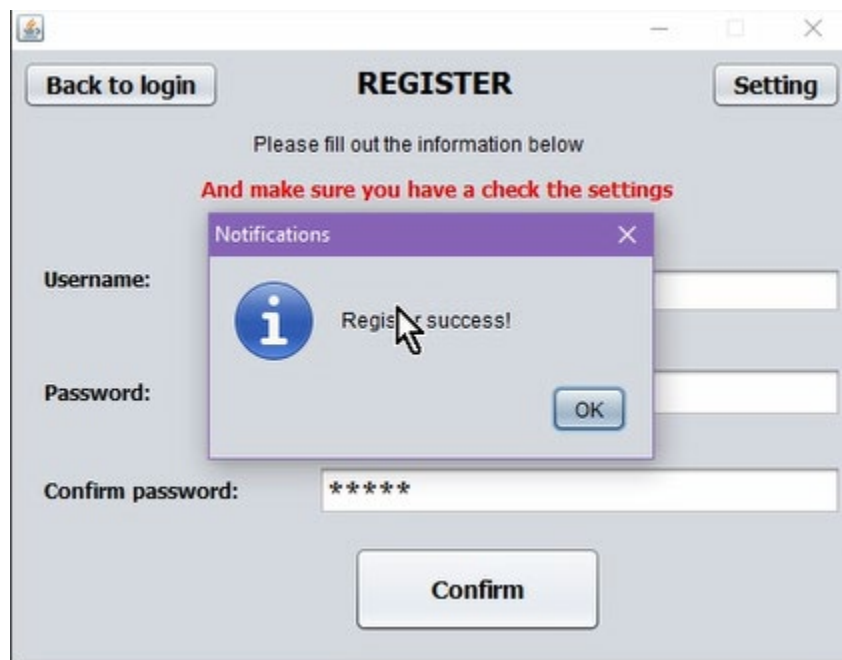
Lưu lại thành công



Điền các thông tin đăng ký (thengoc/12345) và bấm nút “confirm để tiến hành đăng ký”

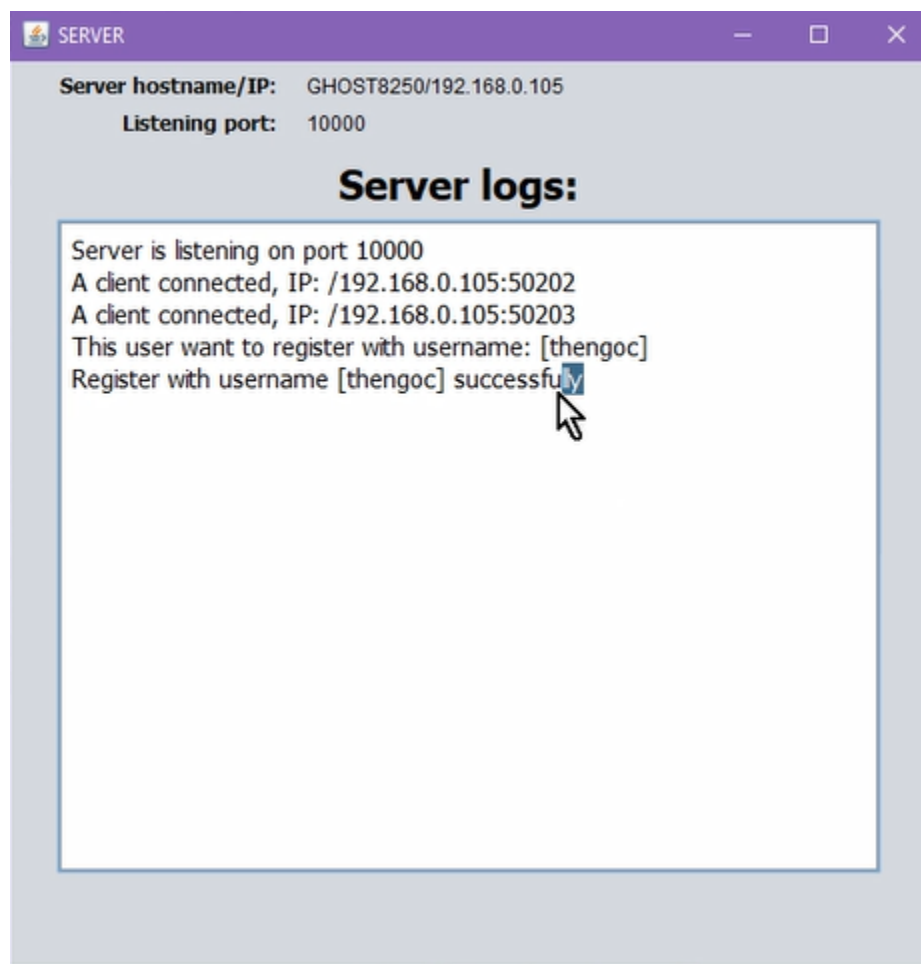


Đăng ký thành công



The screenshot shows a web application window titled "REGISTER". At the top left is a "Back to login" button, and at the top right is a "Setting" button. The main heading is "REGISTER". Below it, the text "Please fill out the information below" is displayed. A red instruction "And make sure you have a check the settings" is shown. The registration form includes fields for "Username:", "Password:", and "Confirm password:". The "Confirm password:" field contains six asterisks "*****". A "Confirm" button is at the bottom. A purple notification box titled "Notifications" is overlaid on the form, displaying an information icon, the text "Register success!", and an "OK" button.

Log bên phía server



The screenshot shows a server log window titled "SERVER". It displays the following information:

- Server hostname/IP: GHOST8250/192.168.0.105
- Listening port: 10000

The "Server logs:" section contains the following log entries:

```
Server is listening on port 10000
A client connected, IP: /192.168.0.105:50202
A client connected, IP: /192.168.0.105:50203
This user want to register with username: [thengoc]
Register with username [thengoc] successfully
```

A mouse cursor is pointing at the word "successfully" in the last log entry.

Quay lại màn hình đăng nhập, tiến hành đăng nhập

The screenshot shows a web application window titled "Login - User". It contains three buttons at the top: "Reigster here!", "LOGIN", and "Setting". Below these, a message says "Please fill out the information below" followed by "And make sure you have a check the settings" in red. There are two input fields: "Username:" with the value "thengoc" and "Password:" with masked characters "*****". A "Confirm" button is at the bottom.

Đăng nhập thành công

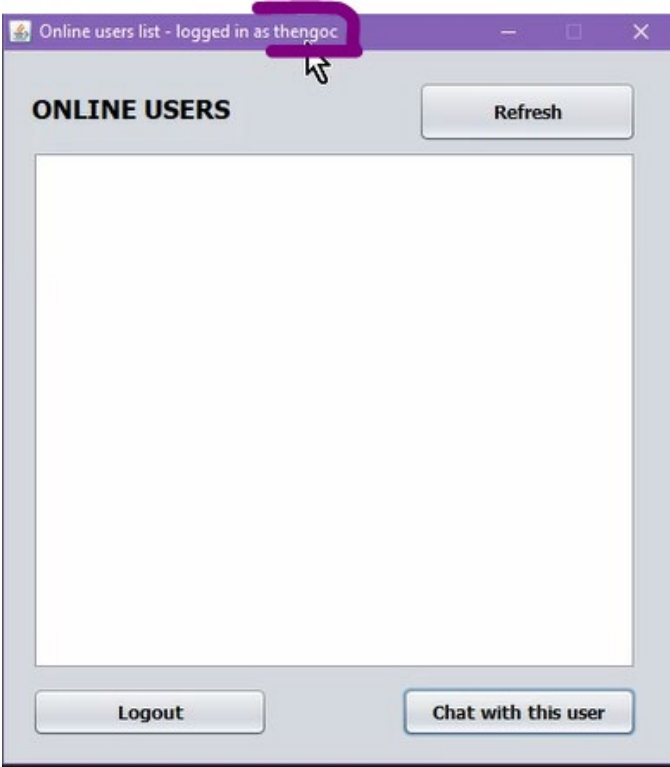
This screenshot shows the same "Login - User" window, but a "Notifications" dialog box is overlaid on the left. The dialog has a blue information icon and the text "Login Success", with an "OK" button. The "Confirm" button on the login form is being clicked by a mouse cursor.

Log phía server

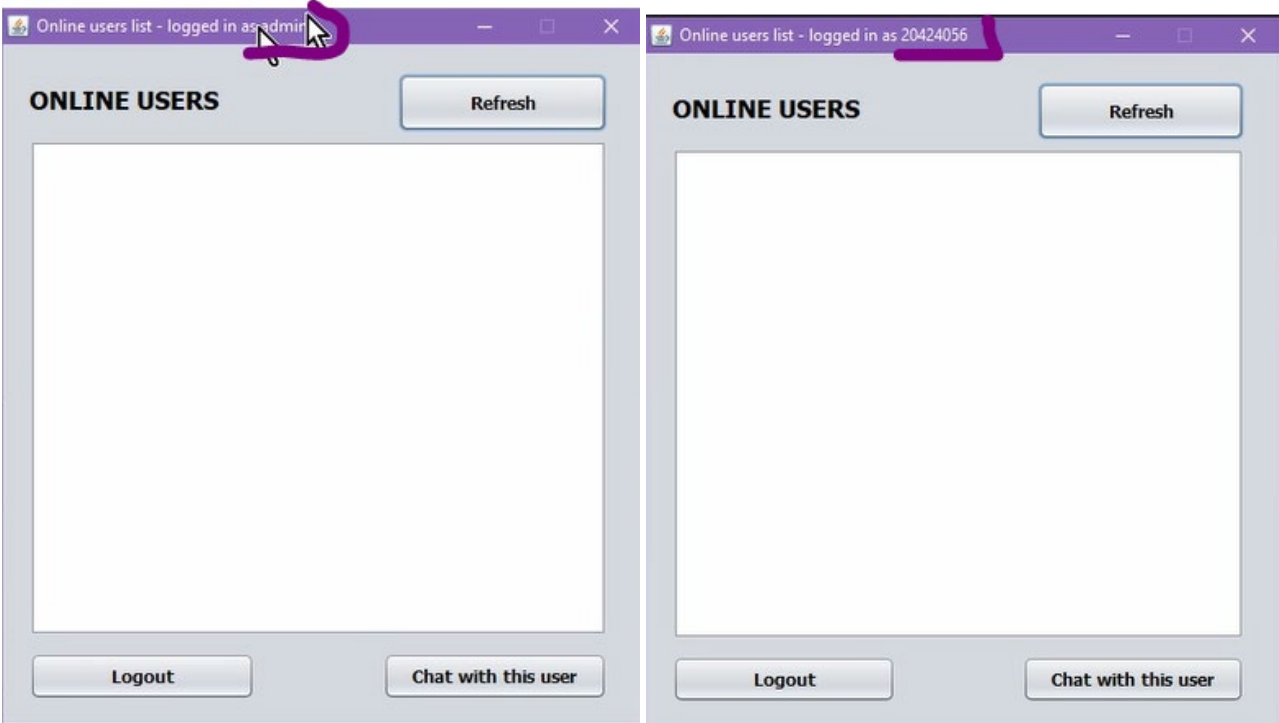
The screenshot shows a "SERVER" window displaying log messages. At the top, it shows "Server hostname/IP: GHOST8250/192.168.0.105" and "Listening port: 10000". Below is a section titled "Server logs:" containing a list of events. A purple bracket highlights the final two lines of the log: "User [thengoc] logging in" and "User[thengoc] login successfully".

```
Server is listening on port 10000
A client connected, IP: /192.168.0.105:50202
A client connected, IP: /192.168.0.105:50203
This user want to register with username: [thengoc]
Register with username [thengoc] successfully
A client connected, IP: /192.168.0.105:50206
This user want to register with username: [thengoc]
Register with username [thengoc] failed
A client connected, IP: /192.168.0.105:50208
User [thengoc] logging in
User [thengoc] login failed
A client connected, IP: /192.168.0.105:50210
User [thengoc] logging in
User[ thengoc] login successfully
```

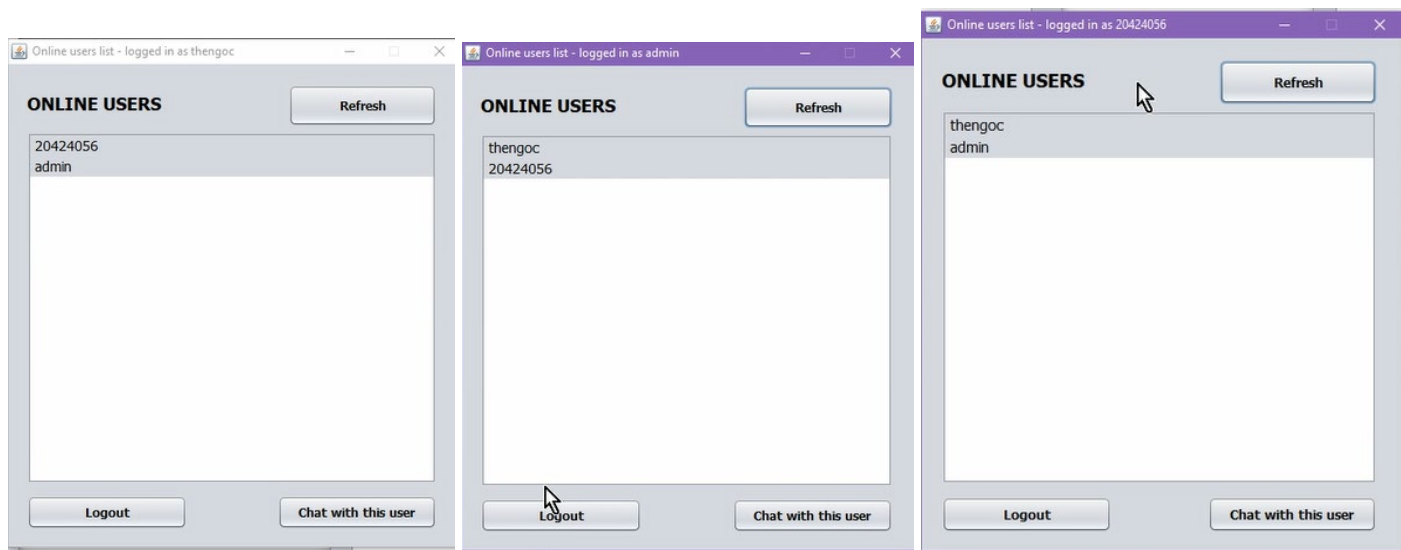
Giao diện hiển thị danh sách người online sau khi đăng nhập:



Tiến hành đăng nhập Client thứ 2 (admin/12345) và 3 (20424056/12345) (2 client này có tài khoản sẵn):

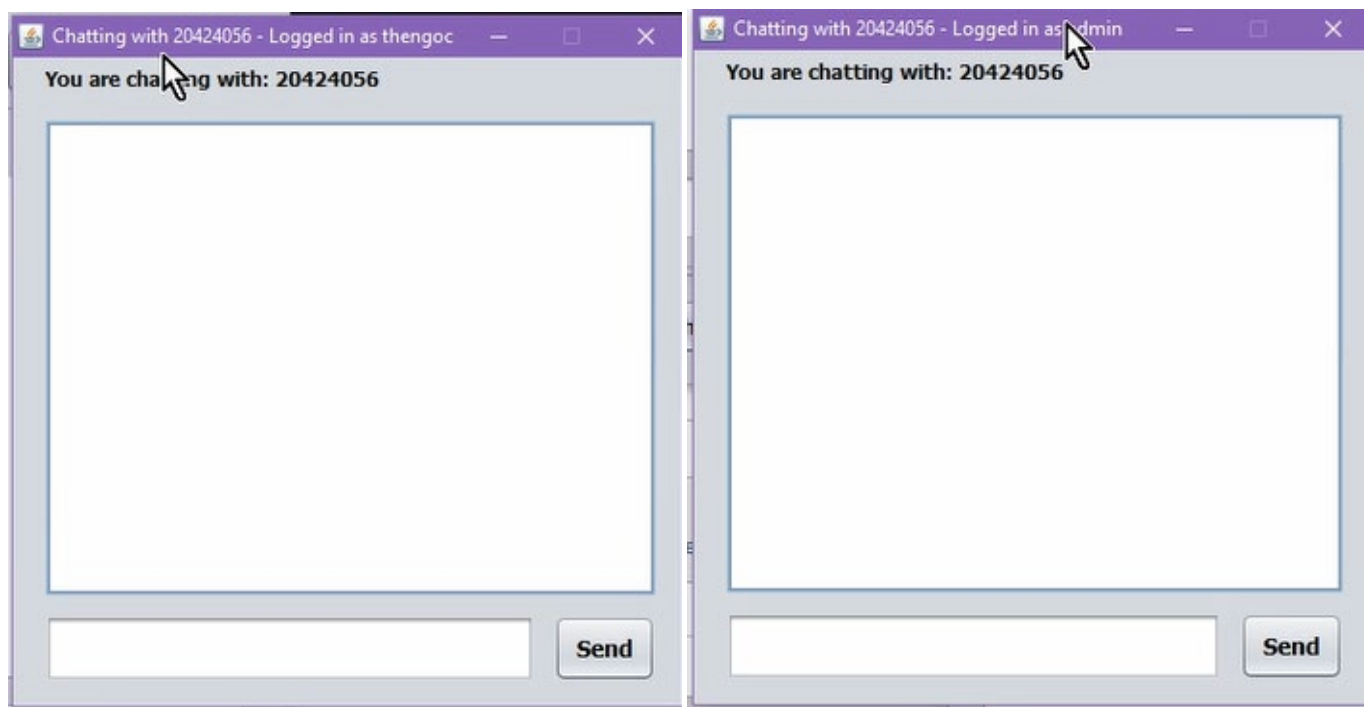


Các Client sau khi bấm refresh (lấy danh sách online)

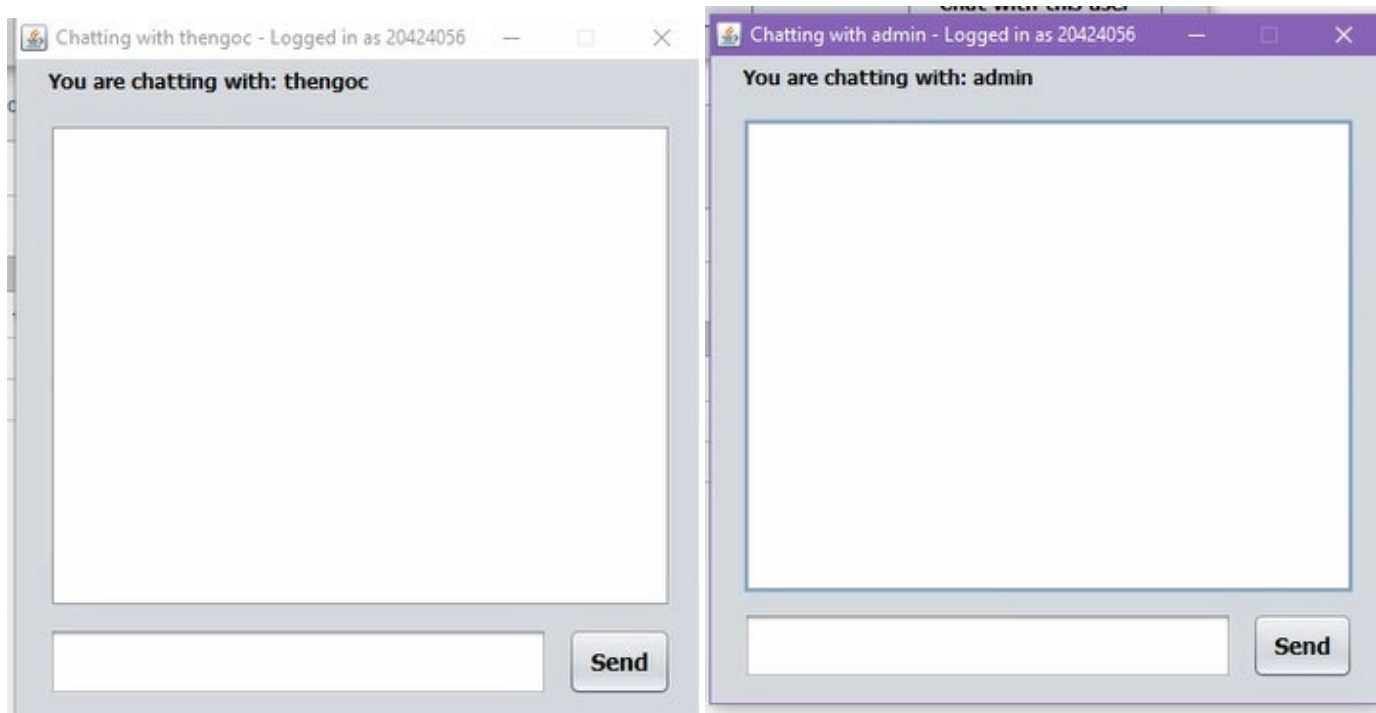


Client thengoc sẽ chat với 20424056, Client admin cũng chat với 20424056, client 20424056 sẽ chat với cả 2 client kia cùng một lúc. (chọn tên user trên danh sách rồi bấm “Chat with this user” để hiển thị cửa sổ chat)

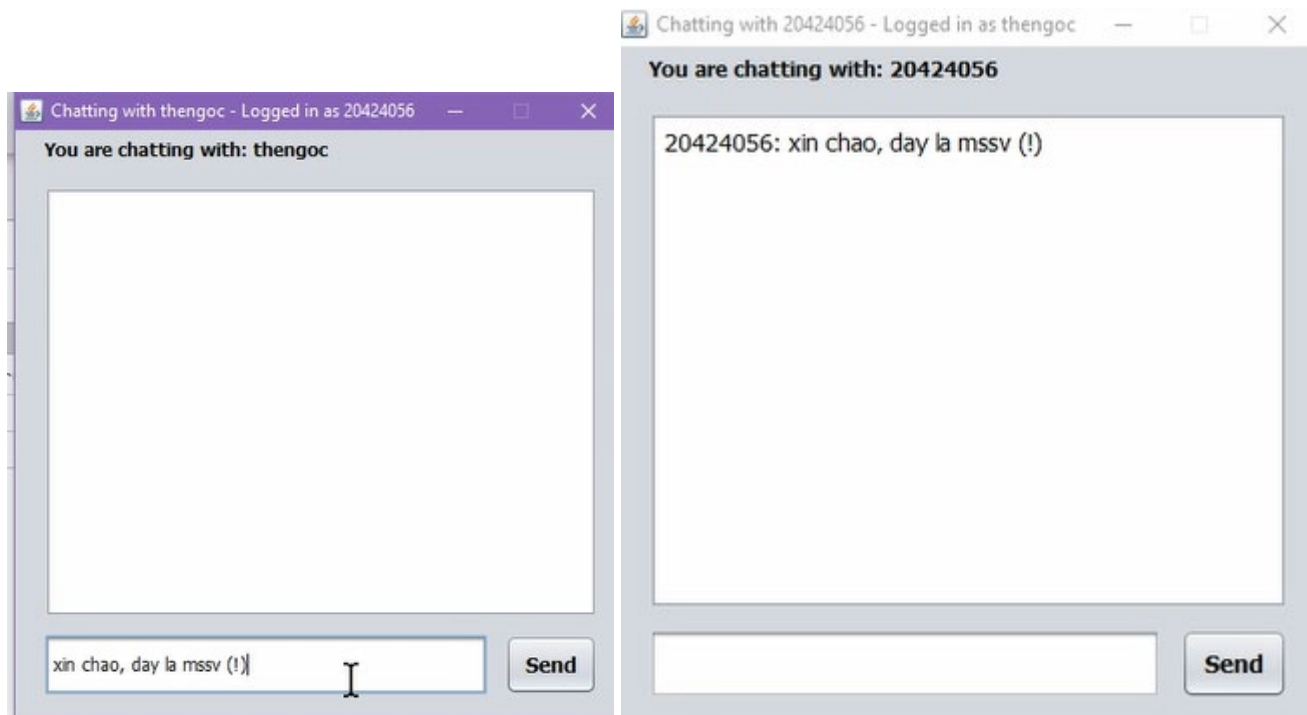
Hình ảnh cửa sổ chat của user thengoc và user admin



Của Client 20424056, mở cả 2 cửa sổ 1 lúc để chat với 2 clien trên:



Client 20424056 gửi tin nhắn tới thengoc và bên thengoc nhận được:



Tương tự với 20424056 gửi cho admin:

