

# COMP90015 Project2: Chat Program

## READ ME

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### 1. There are several arguments in the jar file:

- host: the first arguments (client only) (default: localhost).
- p: port (default: 4444).
- keystore: keystore file's position (required).
- storepass: keystore password (default: comp90015).
- keypass: private key password (server only) (default: 123456).

### 2. How to run the jar:

Run server.jar and client.jar with arguments.

Notice: the keystore path is required, other arguments are set as default.

### 3. New protocols:

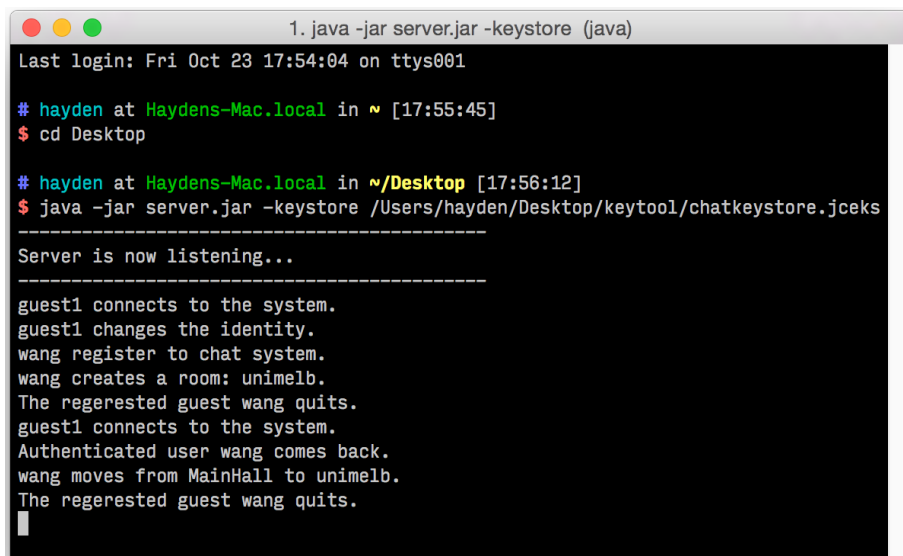
- a. Users can use "register" command to register:

e.g.: #register aaaaaa 123456

- b. Authorised users can use "login" command to login:

e.g.: #login aaaaaa 123456

### 4. Running screenshots:



```
1. java -jar server.jar -keystore (java)
Last login: Fri Oct 23 17:54:04 on ttys001

# hayden at Haydens-Mac.local in ~ [17:55:45]
$ cd Desktop

# hayden at Haydens-Mac.local in ~/Desktop [17:56:12]
$ java -jar server.jar -keystore /Users/hayden/Desktop/keytool/chatkeystore.jceks
-----
Server is now listening...
-----
guest1 connects to the system.
guest1 changes the identity.
wang register to chat system.
wang creates a room: unimelb.
The regerested guest wang quits.
guest1 connects to the system.
Authenticated user wang comes back.
wang moves from MainHall to unimelb.
The regerested guest wang quits.
```

▲ Server

```
2. hayden@Haydens-Mac: ~/Desktop (zsh)
Last login: Fri Oct 23 17:55:45 on ttys000

# hayden at Haydens-Mac.local in ~ [17:56:23]
$ cd Desktop

# hayden at Haydens-Mac.local in ~/Desktop [17:56:27]
$ java -jar client.jar -keystore /Users/hayden/Desktop/keytool/chatkeystore.jceks
-----
Connected to server as guest1.
MainHall: 1
guest1 moves to MainHall
MainHall contains guest1
[MainHall] guest1> #identitychange wang

guest1 is now wang!
[MainHall] wang> #register haidongw whd1010540
You are registered as username: haidongw
[MainHall] wang> #createroom unimelb
Room unimelb is created successfully!
MainHall: 1
unimelb: 0
[MainHall] wang> #quit
See you later, old friend!
Disconnected from server.

# hayden at Haydens-Mac.local in ~/Desktop [17:57:31]
$
```

▲ Client (Register)

```
3. hayden@Haydens-Mac: ~/Desktop (zsh)
Last login: Fri Oct 23 17:56:23 on ttys001

# hayden at Haydens-Mac.local in ~ [17:57:37]
$ cd Desktop

# hayden at Haydens-Mac.local in ~/Desktop [17:57:44]
$ java -jar client.jar -keystore /Users/hayden/Desktop/keytool/chatkeystore.jceks
-----
Connected to server as guest1.
MainHall: 1
unimelb: 0
guest1 moves to MainHall
MainHall contains guest1
[MainHall] guest1> #login haidongw whd1010540
Welcome back: wang
[MainHall] wang> #list
MainHall: 1
unimelb: 0
[MainHall] wang> #join unimelb

wang moves from MainHall to unimelb
[unimelb] wang> #who unimelb
unimelb contains wang*
[unimelb] wang> #quit
See you later, old friend!
Disconnected from server.

# hayden at Haydens-Mac.local in ~/Desktop [17:58:40]
$
```

▲ Client (Login)