## Units group:

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You need to create the socket as such:
Client client = new Client("localhost",1234,"keystore.jks","password");
Client client = new Client("localhost", 1234, inputStream, "password");
Before sending another command, you have to check if another command is being processed:
if(!client.getWorking().get()){ }
When you want to send a command you need to use:
client.setMessage("test 1");
Then you need to check if you received a reply for the command:
if(client.getFinished().get()){ }
And then you can get the command:
String reply = client.getReply();
When you want to check the queue, you can get it like this:
ACQueue ac = new ACQueue();
HashMap<Integer, String> queue = ac.getItems();
The following boolean can let you know if there are new commands in the queue:
if(ac.getHasAddedCommands().get()){ }
And once you have, you should set it to false:
ac.setHasAddedCommands(false);
Servers and DB group:
Communication with the client:
You need to get the queue list like this:
WriteQueue que = new WriteQueue(1);
HashMap<Integer, Item> items = que.returnMap();
Next you sort the commands that are not answered or old, put all the old commands at the end of
the queue by setting their priority to 0:
if (items.get(i).getState() && !items.get(i).isAnswered()) {
       if (items.get(i).getUser()==null){ //IF LOGIN then SORT and PREPARE TO LOGIN, ELSE
                                           SKIP }
       else {
              Sort using items.get(i).getUserPrio() and the priority of a command. Also, here you
              should set the priority of the command in the item list so you don't have to check
              again: items.get(i).setPriority(int); and items.get(i).getPriority() to get it.
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}
}
Communication with the arduino:
Create the connector:
ArdConnector ac = new ArdConnector("PORTNAME");
ac.start();
When you want to send a command check if a command is already being processed:
if(!ac.getWorking()){ }
Then you need to set the command using:
ac.setCommand(String);
Then you have to check if the command has been answered:
if(ac.getFinished().get()){ }
Then to get the answer you need to do (NOTE: you can only get the answer ONCE):
String reply = ac.getInputLine();
Communication from the arduino to the clients, queue and multicasting:
To get the queue list:
ACQueue ac = new ACQueue();
HashMap<Integer, String> list = ac.getItems();
These items need to be put in the database and sent to the users of the house that are connected:
You can find which users are connected by using the instance of the server you created before:
HashMap<Integer, Communication> threads = server.getThreads();
Then you can get the user from each thread using:
String user = threads.get(i).getUser();
And then you can send messages to the user that you want using:
threads.get(i).sendUpdate(String update);
Arduino group:
Doing nothing:
You can get a chair using:
Your hands.
And then a laptop:
Your hands.
Open the web explorer of your choice to order a pizza:
Click it.
```

## Type <u>www.onlinepizza.se</u>

Enter your information or mine.

Buy a pizza.

Wait for it.

Eat pizza.