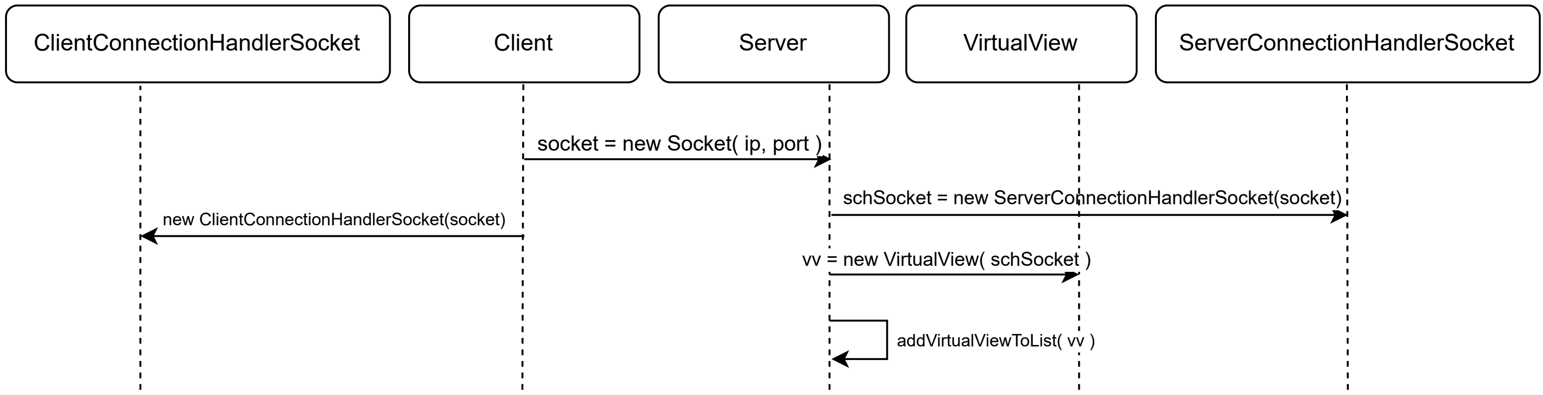
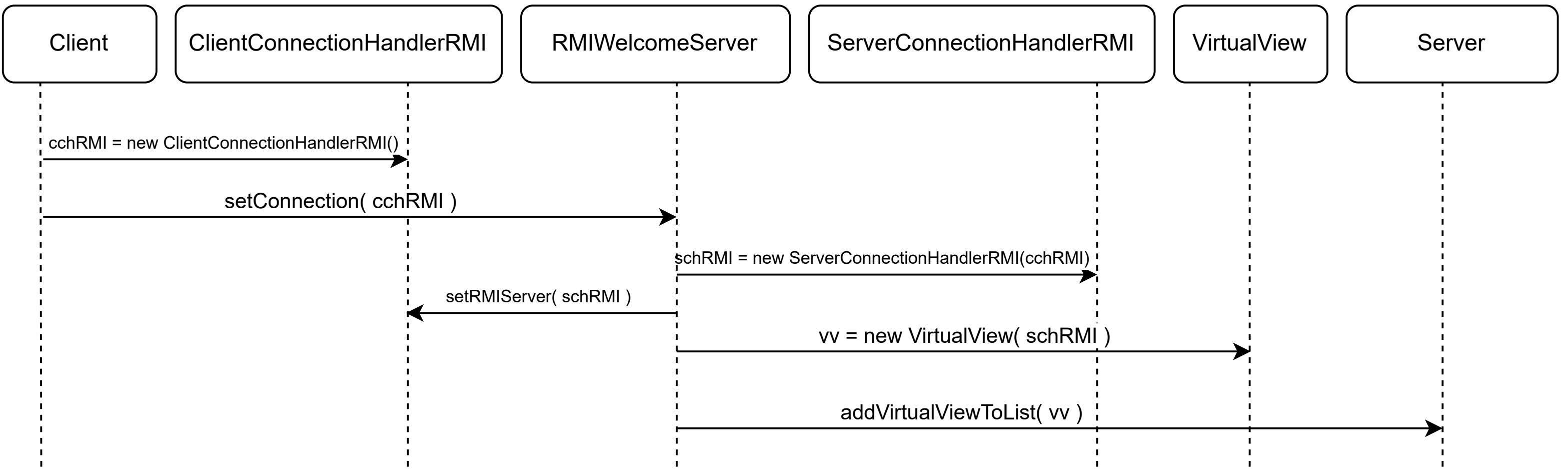
SOCKET


ClientConnectionHandlerSocket
Client
Server
VirtualView
ServerConnectionHandlerSocket
socket = new Socket(ip, port)
schSocket = new ServerConnectionHandlerSocket(socket)
new ClientConnectionHandlerSocket(socket)
vv = new VirtualView(schSocket)
addVirtualViewToList(vv)

RMI


Client
ClientConnectionHandlerRMI
RMIWelcomeServer
ServerConnectionHandlerRMI
VirtualView
Server
cchRMI = new ClientConnectionHandlerRMI()
setConnection(cchRMI)
schRMI = new ServerConnectionHandlerRMI(cchRMI)
setRMIServer(schRMI)
vv = new VirtualView(schRMI)
addVirtualViewToList(vv)

Notes:
Both the ClientConnectionHandlerSocket and ClientConnectionHandlerRMI classes are an implementation of the ClientConnectionHandler interface which offers the following methods:

- **sendCommand(Command c):** this method sends to the server the command c. In the Socket implementation, the object is sent via ObjectOutputStream, while using RMI the object is sent via method invocation.
- **getNextResponse():** This blocking method waits for the next Response sent by the server. In the Socket implementation, the object is received via ObjectInputStream, while using RMI the method waits for the server to put the Response object in a queue (using method invocation).

On the Server side, the same applies: the ServerConnectionHandlerSocket and ServerConnectionHandlerRMI classes are an implementation of the ServerConnectionHandler interface wich offers the methods getNextCommand() and sendResponse(). The VirtualView object, instantiated server-side to interact with the connected clients, uses this methods regardless of the actual implementation of the connection. This allows a clear separation between the network protocol and the View instance.

The server contains a list of VirtualViews, that can be added with the method addVirtualViewToList(VirtualView vv). This list is used for example to check periodically if someone has disconnected.

The client obtains the RMIWelcomeServer reference using LocateRegistry.getRegistry(ip, port).lookup("MyShelfieRMIServer").