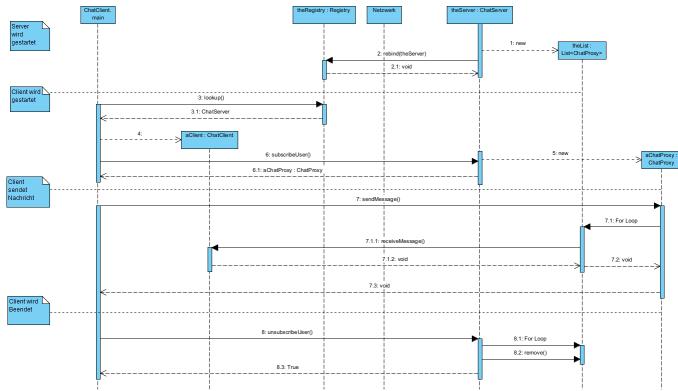
## Verteilte Systeme im Sommersemester 2021

Steffen Herweg, Matr. Nr. 873475 Luca Fabio Kock, Matr. Nr. 879534

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# Aufgabenblatt 6

## Sequenzdiagramm:



#### Tests:

## Funktionierender Chat:

```
Client2
Steffen Subscribed
Luca Subscribed
        Client ×
                                                            Client2
                                              Client ×
"D:\Program Files\Java\jdk-11.0.9\bi
                                    "D:\Program Files\Java\jdk-11.0.9\bin\j
                                    Username:
                                    Server: Luca joined the chat
                                    Steffen: Hallo Luca
Luca: Hallo Steffen! Wie gehts?
                                    Luca: Hallo Steffen! Wie gehts?
                                    Steffen: Gut
Steffen: Gut
                                    Steffen: Bin dann mal weg
Steffen: Bin dann mal weg
                                    Server: Steffen left the chat
```

Wenn der Client zu einer falschen Server IP connecten will:

```
"D:\Program Files\Java\jdk-11.0.9\bin\java.exe" "-javaagent:D:\Program Files\JetBrain Could not Connect to Host: java.net.ConnectException: Connection timed out: connect
```

#### ClientProxyImpl.java:

```
ublic class ClientProxyImpl extends UnicastRemoteObject implements
    private ClientProxyImpl() throws RemoteException {
registry.lookup(Main.NAME);
   private static void mainLoop(ChatServer chatServer) {
```

### Main.java:

#### ChatServerImpl.java:

```
ChatServer {
       ChatProxyImpl(String username) throws RemoteException {
       public void sendMessage(String message) throws RemoteException {
               clientProxy.receiveMessage(username, message);
   private ChatProxy serverChatProxy;
    public ChatProxy subscribeUser(String username, ClientProxy handle)
       System.out.printf("%s Subscribed\n", username);
       clientProxies.add(handle);
       usernames.add(username);
       serverChatProxy.sendMessage(String.format("%s joined the
       return new ChatProxyImpl(username);
   public boolean unsubscribeUser(String username) throws RemoteException
```