title Group 21 Sequence Diagram (Command Line:Login)

participant User

participant CommandLine

participant ChatClient

participant Server

participant ChatServerApplication

participant Other Clients

participant ActiveMQBroker

ChatServerApplication->ActiveMQBroker: start

ChatServerApplication->Server: start

User->+CommandLine: start

CommandLine->ChatClient: instantiates

CommandLine->+ChatClient: connect

ChatClient->-ActiveMQBroker: connect

CommandLine->-User: prompt for username

User->CommandLine:enter username

CommandLine->+ChatClient: attempt login

ChatClient->+Server: login request

Server->Server: check login info

Server-->-ChatClient: login response

ChatClient-->-CommandLine: confirm login

User->+CommandLine : enter get chatrooms

CommandLine->+ChatClient: get chatrooms

ChatClient->+Server: chatroom list request

Server-->>-ChatClient: chatroom list response

ChatClient-->>-CommandLine: return chatroom list

CommandLine->>User: display rooms

CommandLine->+ChatClient: get user list

ChatClient->+Server: user list request

Server-->>-ChatClient: user list response

ChatClient-->>-CommandLine: return user list

CommandLine->>-User: display users

title Group 21 Sequence Diagram (Command Line:Get Chatroom)

participant User

participant CommandLine

participant ChatClient

participant Server

participant ChatServerApplication

participant Other Clients

participant ActiveMQBroker

ChatServerApplication->ActiveMQBroker: start

ChatServerApplication->Server: start

User ->+CommandLine: enter get chatrooms

CommandLine->+ChatClient: get chatrooms

ChatClient->+Server: chatroom list request

Server-->>-ChatClient: chatroom list response

ChatClient-->>-CommandLine: return chatroom list

CommandLine->>User: display rooms

CommandLine->+ChatClient: get user list

ChatClient->+Server: user list request

Server->-ChatClient: user list response

ChatClient->-CommandLine: return user list

CommandLine->-User: display users

title Group 21 Sequence Diagram (Command Line:Broadcast Message)

participant User

participant CommandLine

participant ChatClient

participant Server

participant ChatServerApplication

participant Other Clients

participant ActiveMQBroker

ChatServerApplication->ActiveMQBroker: start

ChatServerApplication->Server: start

User->>+CommandLine: enters broadcast message

CommandLine->+ChatClient: broadcast

CommandLine->-CommandLine: end task

ChatClient->>+Server: broadcast

ChatClient->-ChatClient: end task

Server-->>ChatClient: user message

Server->>-Other Clients: user message

title Group 21 Sequence Diagram (Command Line:Private Message)

participant User

participant CommandLine

participant ChatClient

participant Server

participant ChatServerApplication

participant Other Clients

participant ActiveMQBroker

ChatServerApplication->ActiveMQBroker: start

ChatServerApplication->Server: start

User->>CommandLine: select user to send message to

User->>+CommandLine: enters private message

CommandLine->>+ChatClient: send user message

CommandLine->-CommandLine: end task

ChatClient->>+Server: user message

ChatClient->-ChatClient: end task

Server->>-Other Clients: user message

title Group 21 Sequence Diagram (Command Line:Change Chatroom)

participant User

participant CommandLine

participant ChatClient

participant Server

participant ChatServerApplication

participant Other Clients

participant ActiveMQBroker

ChatServerApplication->ActiveMQBroker: start

ChatServerApplication->Server: start

User->+CommandLine: change chatrooms

CommandLine->+ChatClient: enter chatroom

ChatClient->+Server: enter chatroom request

Server->Server: add user to new chatroom

Server-->>-ChatClient: enter chatroom response

CommandLine->ChatClient: get current chatroom

ChatClient-->>-CommandLine: return new chatroom

CommandLine->-User: display new chatroom

title Group 21 Sequence Diagram (Command Line:Log Out)

participant User

participant CommandLine

participant ChatClient

participant Server

participant ChatServerApplication

participant Other Clients

participant ActiveMQBroker

ChatServerApplication->ActiveMQBroker: start

ChatServerApplication->Server: start

User->+CommandLine: log out

CommandLine->>+ChatClient: log out

ChatClient->>-Server: log out message

destroy ChatClient

Server->Server: remove user from chatroom