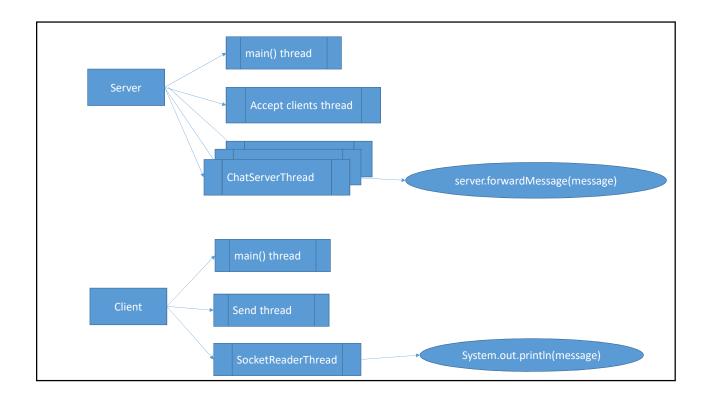
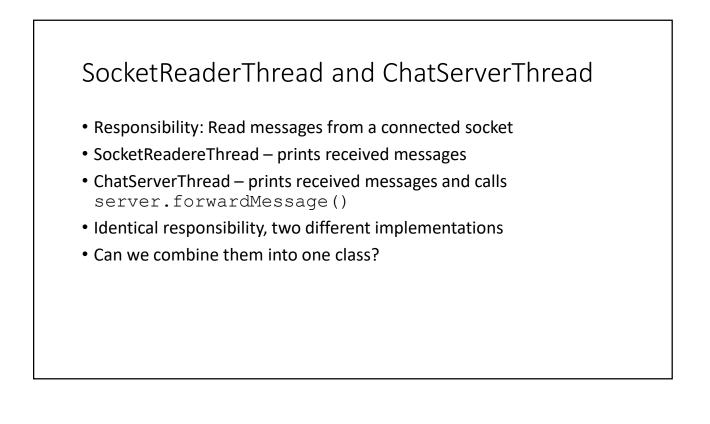
Chat Application: improvements

CSCI 2300

Latest design

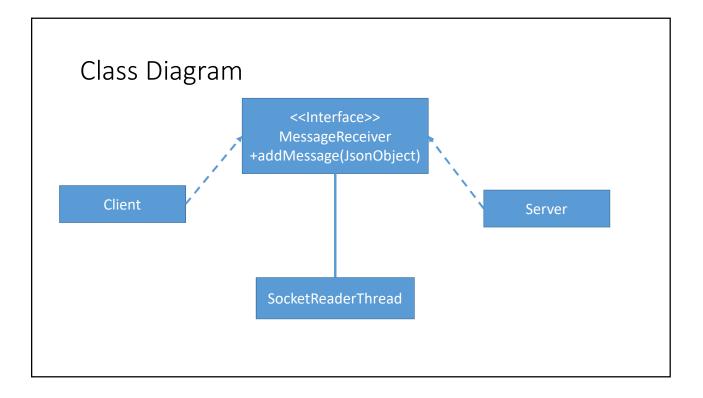
- Server
 - accepts multiple clients (implemented in Server.java)
 - new thread per client (ChatServerThread)
 - each thread 'forwards' message to the server, then server sends 'forwarded' messages to all connected clients
- Client
 - one thread for sending messages (implemented in Client.java)
 - one thread for receiving messages (SocketReaderThread.java)

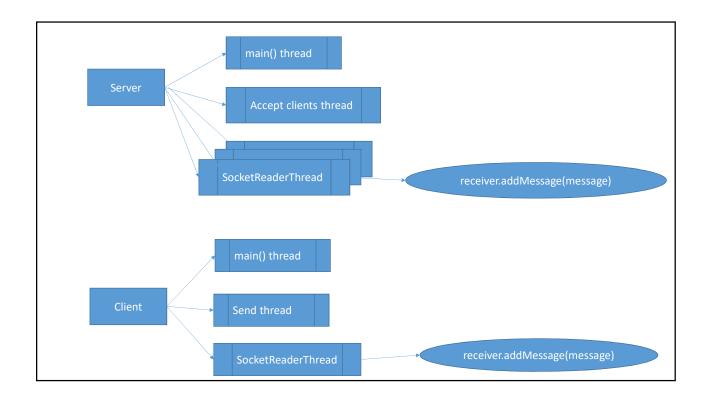


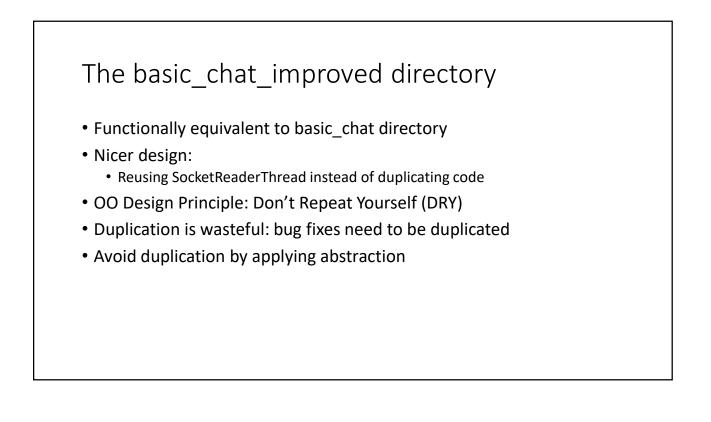


MessageReceiver interface

- public void addMessage(JsonObject message);
- Client implements MessageReceiver
 - Print the message to the screen
- Server implements MessageReceiver
 - Forward the message to all connected clients
- SocketReaderThread
 - has a reference to a MessageReceiver
 - Calls addMessage (message) on MessageReceiver, after reading a message from a socket







Adding GUI

Messages Received

Message you type

GUI Example

From Kate: Hello From John: Hey From Zoe: Greetings!

Did you finish your homework?

