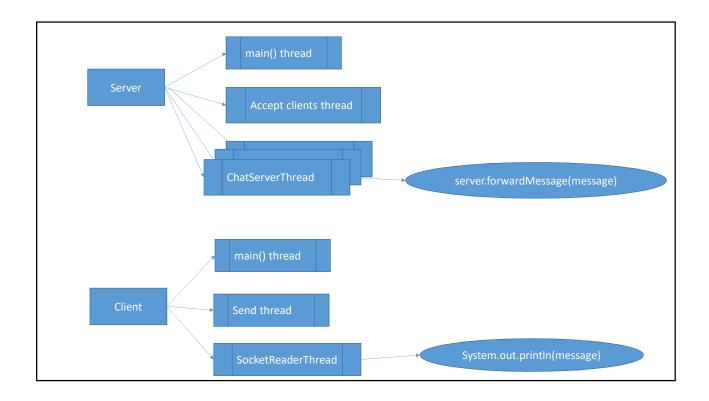
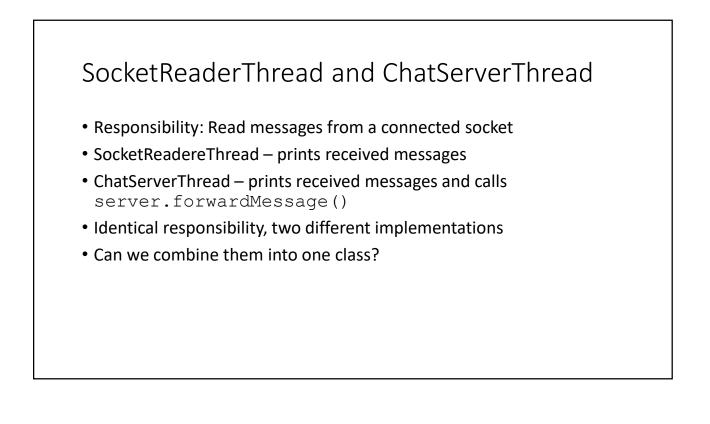
## Chat Application: improvements

CSCI 2300

## Latest design

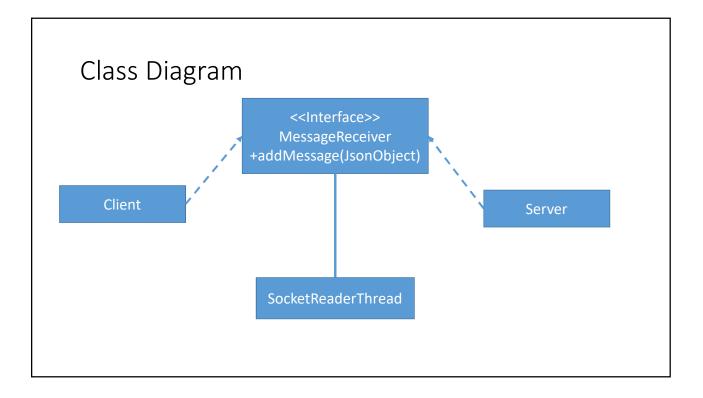
- Server
  - accepts multiple clients (implemented in Server.java)
  - new thread per client (ChatServerThread)
  - each thread 'forwards' message to the server, then server sends 'forwarded' messages to all connected clients
- Client
  - one thread for sending messages (implemented in Client.java)
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

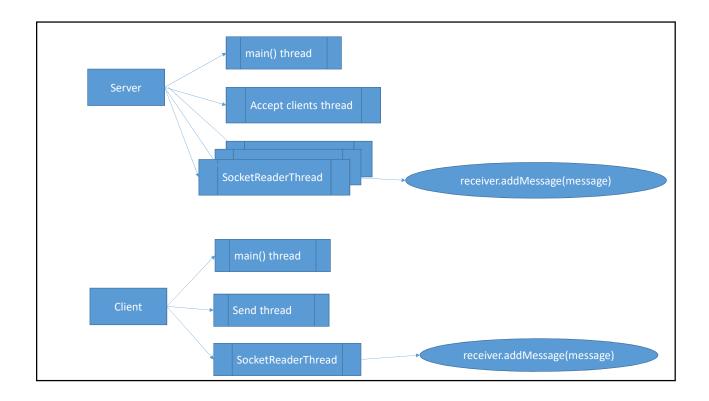


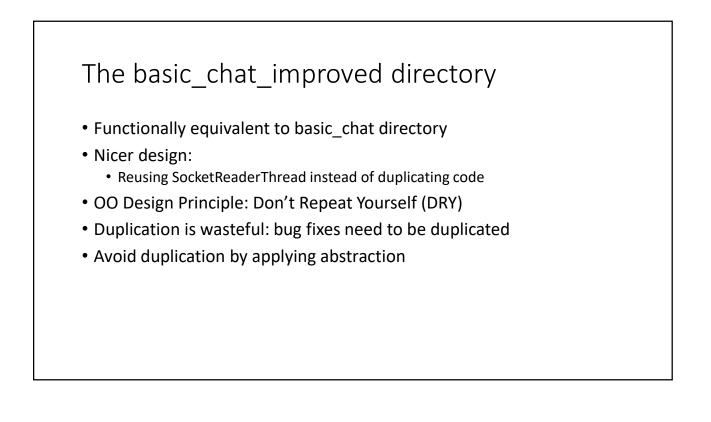


## MessageReceiver interface

- 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?

