Project Report

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1. Achievements
2. First part
   1. ChatClient
      1. Enter

* (Basic feature) Initialized a Callback instance to receive messages from ChatServer.
* (Basic feature) Initialized a RMI connection to the ChatServer with the Callback instance attached.
* (Additional feature) Notify the clients that they have successfully entered the chat room.
  + 1. Write
* (Basic requirement) Invoked the ChatServer ‘write’ function to send messages to other clients.
* (Additional features) Changed the beginning text of client chat to “You say:” for clarification.
  + 1. Who
* (Basic requirements) Listed the people who are active in the room.
* (Additional features) Also show the total number of people in the room.
  + 1. Leave
* (Basic requirements) Invoked the ChatServer ‘leave’ function to stop receiving messages.
* (Additional features) Notify the client that he/she has left the room
  1. ChatServer
     1. Enter
* (Basic requirement) Notify the clients that a new client has arrived.
* (Basic requirement) Map the new client’s name and callback to a hashmap.
  + 1. Write
* (Basic requirement) Invoke the callback of all clients (except the sender)
  + 1. Who
* (Basic requirement) Return the list of clients’ names from the hashmap
  + 1. Leave
* (Basic requirement) Remove the client from the hashmap.
* (Basic requirement) Notify others that a client has left.
  1. Callback
* (Basic requirement) Take a TextArea as an input for the constructor to show the messages from the ChatServer.
  1. Shared features
* Add try/catch to all functions called.

1. Second part

* Add ‘attach’ button to ChatClient
* Add ‘attach’ function to ChatClient and ChatServer

1. Tutorial
2. First part

* Go to the project folder.
* Compile the classes needed:
  + javac ChatServerImpl.java
  + javac ChatClient.java
* Start the server:
  + java ChatServerImpl
* Start some clients (for example 3 client):
  + java ChatClient <client1>
  + java ChatClient <client2>
  + java ChatClient <client3>
* Have the client join the chat: press ‘enter’ button on the UI.
* Have a chat: write something and press ‘write’.
* End the conversation: press ‘leave’.

1. Second part