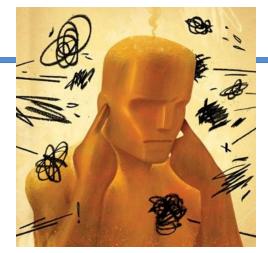
Computer Networking

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Program Assignment #2



Chat Chat! & Whisper



Due date: 2022. 11. 18 (Fri) 23:59

HW#2: Chat Chat & Whisper (30pt)

Goal

- Understanding of multi-threaded socket programming
- Analysis of well-made serve-client applications
- Learn (simple) GUI Java programming

Overview

Big Picture

- Analysis: See & understand well-made multithreaded server-client applications
- Extension: Add a new function

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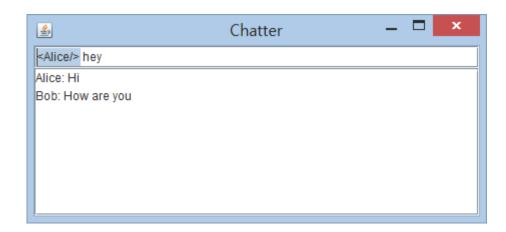
- Functions you have to additionally implement
 - @Client&server : Through [Whisper] function, each user can send a secret message to whom he/she chooses
- Protocol for Server-client Interaction
 - Commands and responses formats

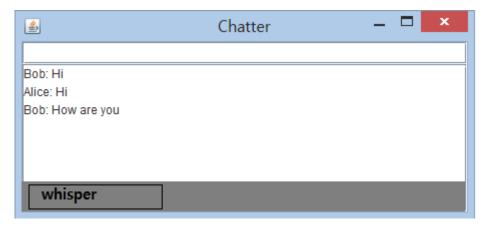
Requirements

- Analyze & Extend the original codes
 - Add comments to the original codes and your own codes
- The server must handle multiple clients at a time
- Server manages the room information and broadcasts the state to all clients in the room
 - Entrance / Exit
- Through [Whisper] function, each user can send a secret message to whom he/she chooses
 - Bonus Features: Add GUI control (e.g., button, selection box, or etc.) for the use of whisper function in the client program
- Server information at a client is stored with a configuration file (e.g., serverinfo.dat)
 - Refer to HW1

Whisper support

- Default:
 - You may treat the whisper function via a special tag
 - E.g. <ID/> message
- Bonus Features (GUI)
 - You may add a button to choose the target receiver for whispering
 - Or, you can use a different design & UI!





Implement one or more whisper function

Grading: 30 points

Features: Good / Mid / Low credits

- Basic running/communication : 10 / 5 / 0 points
- Whisper support: 10 / 5 / 0 points
- Analysis/Report: 10 / 5 / 3 points
- Bonus Features (GUI): bonus 10 / 5 / 0 points
- Any violation of submission guideline
 - File name or file format
 - -5 points
- No late submission is allowed
 - Late submission : 0 point

What should you do also?

- 1. Report (written in Korean)
 - Describe the architecture of your application
 - Explain the message formats (protocol for your application)
 - Should include:
 - all your source codes be attached on the tail of the template document
 - Screenshots (at least three output cases)
- 2. Comments in source files

Submission Guideline

- Zipped Java project files
 - export your project (source files + environments files)
 - https://www.admfactory.com/how-to-import-and-exportjava-projects-in-eclipse/
 - One report file (Template provided)
 - HW2_YOURNAME.docx
- Compressed the document and project files with a sin gle zip file
 - NAME: "your name"-2.zip

End.