

Assignment 2, SDJ2

(MVVM, Observer, Sockets)

The assignment:

You must design and implement a simple client/server application with multiple clients.

Possible programs include:

- Chat system
- Tic-tac-toe

Or if you wish to use your own idea, ask me if you are not sure it covers requirements.

Requirements

- The application must use Sockets connecting client and server, with the server being multithreaded
- The client must be able to
 - 1) send messages,
 - 2) receive messages broadcasted to all clients and
 - 3) request an information from the server not to be broadcasted to other clients, e.g. number of connected chatters, list of connected chatters or similar.
- You must use MVVM with at least two windows. Some ideas:
 - Actual chat window
 - Set user name / alias window
 - List of friends window
 - Login window
- You must use the Observer design pattern as part of the solution.
- It is required to make a class diagram for the final solution (in Astah). In the diagram you must be able to identify the MVVM (just put a comment or note), the Observer pattern and the design of the socket related classes

Deadline

Thursday the 7th of April at 23:59

Format

It is ok to work in groups, but **you each have to hand** in a single zip-file with

- Class diagram (where the different patterns and the socket parts are clearly identified)
- Source code for all Java classes
- Related resources like fxml files, and if used, external jar files

Evaluation

Your hand-in will be registered and counts for one of the exam requirements.

