

Project P2: Java RMI Chat System

For this project, you are asked to port your client-server Internet Chat System to Java RMI. The new version should exploit the Java RMI framework instead of interfacing the TCP protocol at the socket level.

For the application itself, the same requirements as for the previous Exercise P1 hold and you are encouraged to exploit your previous experience on this application. In particular, you are free to reuse your own existing code whenever appropriate in the new RMI framework.

Tasks

For this project, you are asked to

1. present your algorithm design, showing in particular what RMI interactions occur among the components of your application;
2. develop an RMI-based Java implementation of both client and server. The Java code must be robust (proper treatment of exceptions and odd cases), well written (comments and meaningful identifier names) and properly explained (general structure, purpose of your classes and methods, details of RMI operations);
3. test your implementation, and report on possible bugs and/or unexpected behaviors you should find;
4. discuss how the new version differs from the previous one based immediately on TCP and point out which changes and improvements were brought about by the new RMI version.

Deliverable and Deadline

Your deliverable will consist of

1. a 3–4 pages project documentation discussing the tasks above;
2. instructions for running the system;
3. your working Java sources (*.java files).

Please, submit your work by email to `nutt AT inf.unibz.it` no later than

6 December 2008, 5pm.