

RMI-based chat application: Papinho

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1 Presentation

2 Remote interfaces

2.1 Chat server side

The server provides the services in the table 1. Those services are provided in order to allow the client to communicate between other clients and the server itself.

Method	Summary
addClient	Add a client to the list of clients in the server side
removeClient	remove a client from the list of clients
sendMessage	broadcast certain message to all the clients, or for a specific client
clientNameChange	Change the user's login

Table 1: Server Side: Provided methods

2.2 Chat client side

The client must provide some method so the server can inform the client about new messages, user renaming, etc.

Method	Summary
addClient	Add a client to the list of clients in the client side
removeClient	remove a client from the list of clients in the client side
receiveMessage	Add a new message to the main window
receivePrivateMessage	Add a new message to a private chat window
changeClientName	Change the username in the list of clients on the client side

Table 2: Client Side: Provided methods

3 History and persistence

In order to manage the persistence, the main design pattern used was a creational pattern *Proxy*. The main goal of this pattern is to decide which instance to generate. On the current implementation the persistence method used was the *serialization of the object to disk*, what is also called as *bean serialization*.

4 Graphical User Interface

5 Networking and security issues