

Remote File System Browser

Subject: Distributed Systems
Theme: 1st practical assignment
Deadline: 6/11/2018

1 Objective

The objective of this practical assignment is to implement a remote file system browser based on RMI.

2 Details

The Java standard API has a class designed to get several information and to manipulate files on a local file system storage device (`java.io.File`).

This practical assignment should be structured in two main modules: the server, to be installed in a remote host, and the client, which will access the remote file system through RMI.

Extra points will be granted according to the implemented functionality. The use of rich user interfaces will also be valued.

3 Minimum requirements

1. Each group can have 2 elements at most
2. The programming language should be Java
3. RMI has to be used
4. The server has to support at least one client
5. The server has to be executed in a different host of the client, using the following command:
\$./gradlew server
6. The client has to be executed in a different host of the server, using the following command:
\$./gradlew client -PregistryAddress=192.168.xx.yy

4 Extra points

The minimum requirement is to support a single client. Extra points will be awarded if the server supports multiple clients simultaneously. In a conceptual perspective, the use of software engineering approach will also be valued.

5 Deliverables

1. All the material should be submitted in the Assignments section of the respective curricular unit in Virtual.IPB
2. Report
3. Compressed project folder with source code
4. If the program does not run using gradle scripts, it will not be evaluated