Client side

Server side

clients find the stub by using the name of the stub, so clients can communicate with the Frontend server

rmi registry

bind

The Frontend server creates a stub for the client. Rmi registry binds the frontend server to a specific port .

Client 1
Client 2
Client 3

Frontend server

Backend

Backend

Backend

communication between backends happen when a new backend is created. The new backend gets auction data from the oldest backend if all the backends have the same auction data. Otherwise It find the most common auction data for the new backend.

communication between the client and the server use java rmi .It allows clients to call functions from the server .These methods are defined in the API interface

backend are state machines that store auction data that are organised as a group. Frontend multicast their requests to the group and each backend processes the request and replies. It return the first response to the client if all the responses are the same.It find the most common response if the responses are different and kill the backend with the wrong response

miro