Distributed Systems

Assignment

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Kennan Lyle Seno

D14123582

I declare that this work, which is submitted as part of my coursework, is entirely my own, except where clearly and explicitly stated.

Introduction

This assignment involves creating an auction system where bidders can bid for auctioned items. The bidders are automatically notified when another bidder has placed a bigger bid than the current. Just like in the real world auctions, bidders are not allowed to place a bid lower than the current bid and will be notified according. When there is no bid placed on an auctioned item, the item will be re-auctioned after all the remaining items are finished.

Implementation

Running the Auction server:
To run the Auction program through the command line/terminal, make sure you are in the project directory and type the following:

Windows:
Run the **runAuctionServer.bat** file and specify a port number as parameter.

```
> runAuctionServer.bat 1234
```

Open a new command line and run **runAuctionClient.bat** file, specifying the port and bidder name as parameters.

```
> runAuctionClient.bat 1234 bidderName
```

Mac:
Type in the terminal the following to run the auction server with the first parameter as the port.

```
> java AuctionServer 1234
```

Open a new terminal and type the following to run the auction client. You can connect up to 50 bidders connections.

```
> java AuctionClient 0.0.0.0 1234 bidderName
```

Note: Java classpath must be configured in your computer to be able run this program in the command line/terminal.

Design

Class Diagram