



**You have to develop a web application that manages an auction house.**

**> Step 1 - Auction house**

- Create an auction house with a given name.
- List all auction houses created.
- Delete a specific house.

**> Step 2 - Auction**

- For a given Auction house
  - create an auction with some parameters: name, description, starting time, end time, start price, current price
  - List all auctions for a given auction house
  - Delete a specific auction
  - (Optional): List all auctions based on their status (i.e. not\_started, running, terminated, deleted, ...)

**> Step 3 - Bidding in an auction**

- For a given auction:
  - Let a specific user bid (if only the bidding price is higher than the auction current price and the auction is started)
  - List all bidding (with the user name) that has happened until now
  - For a terminated auction, show the winner (i.e. the bidder that puts the higher price)

**> Notes**

- This must be a web application that receives and answers to http commands with tools like cURL or HTTPie
- You can use any library you want
- Database and persistent mechanisms are not asked, you can keep all data in memory
- You can use the domain model (POJO) you want as long as it solves the exercise

**> Optional points**

- Use of a build system (like maven or gradle)
- Good management or user notifications of errors
- Use of appropriate http requests methods
- Clean code
- Tests
- Documentation