Requirements

**Functional Requirements**

(functional requirements define how the system must work) -- delete when finished

[A Guide to Functional Requirements (with Examples) (nuclino.com)](https://www.nuclino.com/articles/functional-requirements) - Delete this when finished

1. System should perform check to see if records already exist when registering a new user e.g., User ID
2. System shows an informative error described and suggests how to solve it
3. Auction website to allow the seller to upload an item for auction with relevant details inclusive of name, min bid price, res price, image, start & end date.
4. System must have filters and checks in place that check minimum bid price is greater than reserve price.
5. System should verify that bid start date isn’t a past due date – it should remove outdated content automatically
6. Verify that end date is after start date & start date is before end date (also verify that neither date is in the past)
7. System cannot allow bids to be made before auction started or after auction ended
8. The Bid of user B cannot be lower than user A’s; one must be one increment higher.
9. System should allow seller to cancel auction within a certain time frame to avoid bad faith.
10. Place bid button shows and allows to user to make bid; button should not be visible before starting time and after ending time of auction.
11. System Admin should be able to see user’s details and edit item details on the website e.g., search by address/user ID, and delete items, change incorrect descriptions
12. Admins have permissions/ override listings if inappropriate or irrelevant content is posted.
13. System must be compatible with multiple browsers and platforms

**Non-Functional Requirements**

(Non-functional requirements detail how it should perform) -- delete when finished

[What are Non Functional Requirements With Examples| Perforce](https://www.perforce.com/blog/alm/what-are-non-functional-requirements-examples) - delete this when your done

1. Seller must be verified by administrator before being able to list houses for auction using secure version of authentication.
2. Have a low response time (ideally less than 5 seconds) for actions >95%? of cases e.g., confirmation of winning bid
3. Minimal throughput requests to reduce traffic on host for no compromise on functionality or performance.
4. Apply a minimum number of concurrent users on website at a given time
5. Minimum number of concurrent bidders on the same item
6. Auction system minimum of 1/10? precision support for each calculation
7. The system must exceed 99%? uptime
8. Reduce Time taken for a seller to list an item without guides or help (system/website must be easy to use) through an intuitive UI with Nelsons Heuristics in mind.
9. Accessibility requirements: proper contrast ratio for visual impairments, correctly labelled forms e.g. labels next to fields, not in form fields, highlight error field e.g. in registration form, consistent navigation and simple heading/spacing

“Other Common Types of Non-Functional Requirements -- delete when finished

Performance — How quickly does the system respond to users’ actions, or how long does a user wait for a specific operation to happen?

Regulatory — Are there specific requirements you need to satisfy for compliance in your industry?

Environmental — What types of environments will the system be expected to perform within?”

User Stories at [User Stories.docx](https://1drv.ms/w/s!Av-7cF5y3kgekIxB04Z2hW_Xd7EeNw?e=IikfFV)