Online Auction House

Software Requirement Specification (SRS) Document

Sprint Implementation-1

Project Timeline: 24.8.2022 to 30.8.2022

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1. Introduction: -

The introduction of the software requirement specification provides an overview of the entire Software. The entire SRS with overview description purpose, scope, tools used and basic description. The aim of this document is to gather, analyze and give an in-depth insight into the **Online Auction House** by defining the problem statement in detail. The detailed requirements of the Online Auction House are provided in this document.

1.1 Purpose: -The purpose of this document is to describe the requirements to track all information related to Bidder Data(add bidder, edit bidder, delete bidder ,return back to main), Item Maintenance (add item, edit item, delete item), Display items to be auctioned for the week, Auction Day, Display Bidding Report. The main purpose of Online Auction House is to display bidding report.

1.2 Intended Audience: -This document is intended to be read by, client.

1.3 Intended Use: -

- Development Team
- Maintenance Team
- Clients

1.4 Scope: -This project aims to development of an online system of Auction House is to assist any organization to keep records of every bidding done by the bidder with respect to date and can retrieve all the information in a more robust and efficient manner and it also gives the bidding report which contain the higher bid of the respective items available on that day.

2. Overall Description: -

An auction is a sales event wherein potential buyers (bidders) place competitive bids on assets or services (items). In an online auction house, we have to keep the track of the bidders entering into the auction at the estimated time, which item are there to be auctioned, who placed the highest bid on the specific item, bidder id and item id will also be noted to keep in the records according to the item and the bidder. This application lets you bid on the item of one's choice and gives three chances to win. Once the bidding is over it will generate the report with respect to the start time and end time of the auction. One of the purposes of online auction house it to keep the track of all the activities taking place during bidding and organize it

2.1 User Needs: -

Availability of the functionality will depend upon the user. If user is the bidder he will have access to bid on items on auction day, to fetch report and which items will be there in the auction.

But if the user is employee of the auction house, then the system will require the password which will authorize the employee and will allow to update bidder's information and item information from the system and make changes into the respective files. So, employee will need a password to access the bidder details and item details in the function.

2.2 Assumptions and Dependency: -

- User has the latest version of Ubuntu Linux installed.
- Client has either a 4GB or more RAM.
- The service is used preferably on a desktop or laptop.

3. System Features and Requirements: -

3.1 Functionality: -

- **3.1.1 Bidder Data:**

3.1.1.1 Add _bidder () This feature adds the bidder record to the file. It asks for bidder_id, bidder_name, pan_number whose record is to be created. Upon successful creation of a new bidder record the online auction website returns to main menu

3.1.1.2 Edit _bidder () This feature edits the bidder record in the file. Is asks for the new bidder_name, new pan_number .Whose record to be edited. Upon successful creation of a new bidder record the online auction website will return to main menu

3.1.1.3 Delete _bidder () This feature deletes the bidder record from the file. The user needs to provide the bidder_id to be deleted from bidder record. Upon successful deletion of the bidder record the online auction website will return to main menu.

- **3.1.2 Item Maintenance:**

  3.1.2.1 Add _item () In this the item to be auctioned is added. The item get added by taking the item_name,item_code and base_price.If the multiple items of similar type go under hammer in that case the items has the same item code
  with different item_name

  3.1.2.2 Edit _item () In this item to be auctioned is edited. The item get edited by taking the item_name, item_code and base_price.

  3.1.2.3 Delete _item () In this item to be auctioned is deleted by taking the item_name,item_code.

3.1.3 Display _item () In this, the items which are in the auction for the week got displayed to the user with the item_name ,item_code, base price of the items in the online auction website

3.1.4. Auction _day () This module works on item wise. An item then three bidder_id with respect to bidding amount should be entered. The highest bidder wins the bid and bidder files are automatically updated accordingly.

3.1.5 Display_ Bidding _report () In this, the bidding report for the week with start date and end data are displayed on the online auction website.

The report contains item_code, item_name,bid winner name,bidding amount.

3.2 System Requirements: -

3.2.1. Tools to be used:

- C File Handling
- C Language
- vi editor
- System Programming
- Valgrind
- GDB
- Mutex

3.3 System Features: -

- **Supportability**: The system is easy to maintain.
- **Design Constraints**: The system is built using only C language.
- **Usability**: Online Auction House helps to view the report according to the data and give information for the highest bid placed on the item in that day. It also keeps the information of the bidder participating in the auction and items that are being auctioned in a more organized and retrievable way. We can also view the item details based on our requirement which also add to its usability.
- **Reliability & Availability**: The system shall provide bidders and items information with the creation of file in every machine.
- **Performance**: The system will work on the user's terminal.