**ONLINE BIDDING SYSTEM**

Semester - VIII

## AN INTERNSHIP REPORT

***Submitted by***

# YASH TAILOR

## 190770107282

***In fulfillment for the award of the degree of***

# BACHELOR OF ENGINEERING

***in***

## Computer Engineering

**Silver Oak College of Engineering & Technology , Ahmedabad**





**Gujarat Technological University, Ahmedabad April, 2023**

# **Silver Oak College of Engineering & Technology**, Ahmedabad

CERTIFICATE

This is to certify that the Internship/Project entitled **Online Bidding System** has been carried out by Enroll No: **190770107282** Name: **YASH TAILOR** for Subject: **Internship (3180701**) under my guidance in partial fulfillment of the degree of Bachelor of Engineering in Computer Engineering , 8th Semester of Gujarat Technological University, Ahmadabad during the academic year 2022-23.

Prof. Digant Kumar Parmar Dr. Satvik Khara

Internal Guide Head of Department

**Company Certificate**

# **Silver Oak College of Engineering & Technology**,

# Ahmedabad

DECLARATION

We hereby declare that the Internship / Project report submitted along with the Internship / Project entitled **Online Bidding System** submitted in partial fulfillment for the degree of Bachelor of Engineering in **Computer Engineering** to Gujarat Technological University, Ahmedabad, is a bonafide record of original project work carried out by me / us at **Silver Oak College of Engineering & Technology** under the supervision of **Prof. Digant Kumar Parmar** and that no part of this report has been directly copied from any students’ reports or taken from any other source, without providing due reference.

Name of the Student Sign of Student

YASH TAILOR

# ACKNOWLEDGEMENT

With great pleasure, I take this opportunity to express my deep sense of gratitude and indebtedness to my renowned and esteemed guide **Prof. Digant Kumar Parmar** Assistant Professor, Department of Computer Engineering, Silver Oak College of Engineering & Technology, Ahmedabad for her consummate knowledge, due criticism, invaluable guidance and encouragement which has enabled us to give present shape to this work.

I am heavily indebted to HOD **Dr. Satvik Khara**, Professor& Head, Department of Computer Engineering, Silver Oak College of Engineering & Technology, Ahmedabad, for her everlasting willingness to extend her profound knowledge and experience in the preparation of this report. Any attempt to define this indebtedness would be incomplete.

I sincerely thank to **Mr. Yash Fofdiya, Software Engineer at Simform** for giving me great help to undergo training, always looking to provide great help to trainees in any case, motivating them to do something extraordinary.

I express my deep sense of gratitude and indebtedness to my mentors for their effective guidance and constant encouragement throughout the period of training.

Finally, I would like to thank our friends and family for their support and patience, and other faculty member for their help in the completion of this work. Especially to our parents who without their encouragement and financial support, this would not have been possible.

Yours Sincerely,

YASH TAILOR

(190770107282)

**ABSTRACT**

**“Online Bidding System”** is a web-based application which will help users to buy or sell item; they can trade anything they want by posting ad. This application will allow users to post their products for auction; bidder can register and can bid for any available product.

An online auction is an auction which is held over the internet. It is a popular method for buying and selling products and services. Online Auction System s helps to customer to sell and buy product in best price. It is developed with the objective of making the system reliable, easier and fast.

This application is used to sell the anything on the website from house. It developed with the objective of making the system reliable, easier and fast. The application is made as simple as surfing a website. There by non-technical persons can also interact with the processing on the application easily.

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# List of Abbreviations

|  |
| --- |
| API : Application programming interface |
| DB : Database |
| etc : Et cetera |
| JDK : Java Development Kit |
| RAM : Random-access memory |
| SAAS : Software as a service |
| UML : Unified Modeling Language |
| UI - User Interface |
| SRS - Software Requirements Specification |

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**CHAPTERS**

# Overview of the Company

## History

Simform is a new age software development company. Build innovative custom software applications by hiring remote engineering teams that extend your team.

We are a software development company with proven experience in providing services that range from customized development to complete control on maintenance and support. Stay ahead of your competition by tapping into our technical proficiency in software development techniques.

Our experts help you build cloud-native applications that are high in software performance, flexibility, and extensibility. Whether you want to migrate to a microservices architecture, modularize existing monolithic patterns or exploit cloud environments to the maximum potential, our pool of software architects has got you covered.

Upgrade, revamp, migrate or extend your software as you envision without deviating from necessary incremental development. Our software developers not only condense architecture design and write advanced codes, but they also have hands-on experience to track progress, measure results, and optimize processes. As a result, you get the best of both worlds- operations and development.

## Different product / scope of work

* + - Software Development Services
    - DevOps Services
    - Cloud Development Services
    - Software Testing Services

# Overview of different department

* The detailed technical consultation includes things like challenges of the project, what tech-stack to use to solve those challenges. A detailed hiring plan is also part of this consultation and includes details on what skill set and experience your team need to have.
* Project’s execution roadmap brings all the pieces together to show how your project will come to life. Based on your project goals we help you define processes and delivery roadmap that suits your needs.
* Tech architecture solution includes things like how features will be implemented with what technology and framework. It will also include things like algorithms and cloud integrations will be required to build your IP and build the tech engine.
* This tech consultation and talent skillset specification are provided for free so even if you don't work with us, you can take it forward and use it in the future.

## Details about the work being carried out in each department

* + - **HR department**: Human resources is in charge of arranging interviews, coordinating hiring efforts, and on-boarding new employees.
    - **Marketing Team**: Conducting campaign management for marketing initiatives, Creating content providing search engine optimization for company website. Defining and managing company brand.
    - **Development Team**: Building Projects as per client’s requirements is their main purpose This team includes Java team, Python team, Node team etc. I am part of Java team.
    - **Customer Care**: address customer issues and resolve them in a timely and efficient manner. Support reps interact with customers on a variety of channels such as phone, email, and social media, and ensure that all valid customer concerns are being dealt with immediately.

## Technical specifications of major equipment used in each department

Personal Computer

* + - Intel core i3 11th generation
    - 8 GB Graphics
    - 16 GB RAM
    - 256 GB SSD
    - Windows 10

# Internship Management

## Internship Summary

I began my internship with Simform in February 2023. I found motivation in my daily commutes through an incredible work environment. The employees were immensely friendly, supporting, customer-service oriented, caring, and honest. It was an opportunity for me to prove myself as a reputable employee, a reliable coworker, and a motivated student. It was also an opportunity to gain the critical office experience I had not received through my past work experience.

One of the most valuable skills I developed was my versatility. In companies it is common to work across various Technology and that was exactly what I did. Over the duration of my internship, I had worked on a product which is an Online Bidding Platform.

I earned an increasing amount of responsibility as I accomplished more tasks and was always happy to receive new work. The support and direct feedback that I received was more than enough to make me feel comfortable. I am greatly humbled and thankful for all of my coworkers at Simform for providing me with the ability to develop personally and professionally.

## Purpose

It is an excellent learning curve for me while meeting new people and making connections in the professional world. In today’s job market, passing exams with high scores and getting a degree doesn’t offer the much- needed work experience, you will need to succeed in a workspace. In an internship, you will be able to gain real-life exposure, grow your knowledge and determine if you are in the right career field.

## Objective

The main objective is to develop an online auction system which will provide a forum for sellers to meet and interact with buyers, and sell items to interested bidders.

The Objective of this project is to improve the auction system as well as increase its reach to global level. This project address major problems faced by the offsite bidders and assets owner like finding good buyer or acquiring exotic items.

Its Objective is to invite potential buyers to bid on item from any corner and help buyers and auction houses to take their items and auctions to global level by providing on demand software operator to deploy the bidding process on the internet.

## Scope

Using this online auction management system, bidders will be able to get connected to the specific sellers who will offer them necessary information and or give hand to sell their items to them. It will help save time and offer quality deliverables to the bidders by quick response and attention services. This system will replace the manual way of seeking items in the market and travelling long journeys just to get an item yet there are available items just in the neighborhood.

## Technology and Literature Review

### Spring Framework:



Spring Boot is an open source Java-based framework used to create a microservices. It is developed by Pivotal Team and is used to build stand-alone and production ready spring applications. This chapter will give you an introduction to Spring Boot and familiarizes you with its basic concepts.

### What is Spring Framework?

The Spring Boot provides a good platform for Java developers to develop a stand-alone and production-grade spring application that you can **just run**. You can get started with minimum configurations without the need for an entire Spring configuration setup.

You can choose Spring Boot because of the features and benefits it offers as given here

* + - * It provides a flexible way to configure Java Beans, XML configurations, and Database Transactions.
      * It provides a powerful batch processing and manages REST endpoints.
      * In Spring Boot, everything is auto configured; no manual configurations are needed.
* It offers annotation-based spring application
* Eases dependency management
* It includes Embedded Servlet Container

### How does it work?

Spring Boot automatically configures your application based on the dependencies you have added to the project by using **@EnableAutoConfiguration** annotation. For example, if MySQL database is on your classpath, but you have not configured any database connection, then Spring Boot auto-configures an in memory database.

The entry point of the spring boot application is the class contains **@SpringBootApplication** annotation and the main method.

Spring Boot automatically scans all the components included in the project by using **@ComponentScan** annotation.

### Java:



Java is a [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), [class-based,](https://en.wikipedia.org/wiki/Class-based_programming) [object-oriente](https://en.wikipedia.org/wiki/Object-oriented_programming)d [programming](https://en.wikipedia.org/wiki/Programming_language) [languag](https://en.wikipedia.org/wiki/Programming_language)e that is designed to have as few implementation [dependencie](https://en.wikipedia.org/wiki/Dependency_(computer_science))s as possible. It is a [general-](https://en.wikipedia.org/wiki/General-purpose_language) [purpos](https://en.wikipedia.org/wiki/General-purpose_language)e programming language intended to let [programmers](https://en.wikipedia.org/wiki/Programmer) write once, run anywhere (WORA), meaning that [compiled](https://en.wikipedia.org/wiki/Compiler) Java code can run on all platforms that support Java without the need to recompile. Java applications are typically compiledto [bytecode](https://en.wikipedia.org/wiki/Java_bytecode) that can run on any [Java virtual](https://en.wikipedia.org/wiki/Java_virtual_machine) [machine](https://en.wikipedia.org/wiki/Java_virtual_machine) (JVM) regardless of the underlying [computerarchitecture.](https://en.wikipedia.org/wiki/Computer_architecture) The [syntax](https://en.wikipedia.org/wiki/Syntax_(programming_languages)) of Java is similar to [C](https://en.wikipedia.org/wiki/C_(programming_language)) and [C++,](https://en.wikipedia.org/wiki/C%2B%2B) but has fewer [low-level](https://en.wikipedia.org/wiki/Low-level_programming_language) facilities than either of them. The Java runtime provides dynamic capabilities (such as [reflection](https://en.wikipedia.org/wiki/Reflective_programming) and runtime code modification) that are typically not available in traditional compiled languages. As of 2019, Java was one of the most popular programming languages in use according to [GitHub](https://en.wikipedia.org/wiki/GitHub), particularly for client–server web applications, with a reported 9 million developers.

Java was originally developed by James Gosling at Sun Micro systems and released in May 1995 as a core component of Sun Microsystems Java platform. The original and reference implementation Java compilers, virtual machines, and class libraries were originally released by Sun under proprietary licenses. As of May 2007, in compliance with the specifications of the Java Community Process, Sun had re-licensed most of its Java

technologies under the GPL-2.0-only license. Oracle offers its own HotSpot Java Virtual Machine, however the official reference implementation is the OpenJDK JVM which is free open-source software and used by most developers and is the default JVM for almost all Linux distributions.

### MySQL:

### Download MySQL Logo in SVG Vector or PNG File Format - Logo.wine

MySQL is the most popular Open Source Relational SQL database management system. MySQL is one of the best RDBMS being used for developing web-based software applications.

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network. In particular, a relational database is a digital store collecting data and organizing it according to the relational model. In this model, tables consist of rows and columns, and relationships between data elements all follow a strict logical structure. An RDBMS is simply the set of software tools used to actually implement, manage, and query such a database.

## Internship Planning

### Roles and Responsibilities

Creating Database Schema

Creating APIs

Testing APIs briefly in Postman

### Group Dependencies

Frontend dependency to use these APIs to save and retrieve data from database.

Devops dependency to deploy the project.

## Internship Scheduling

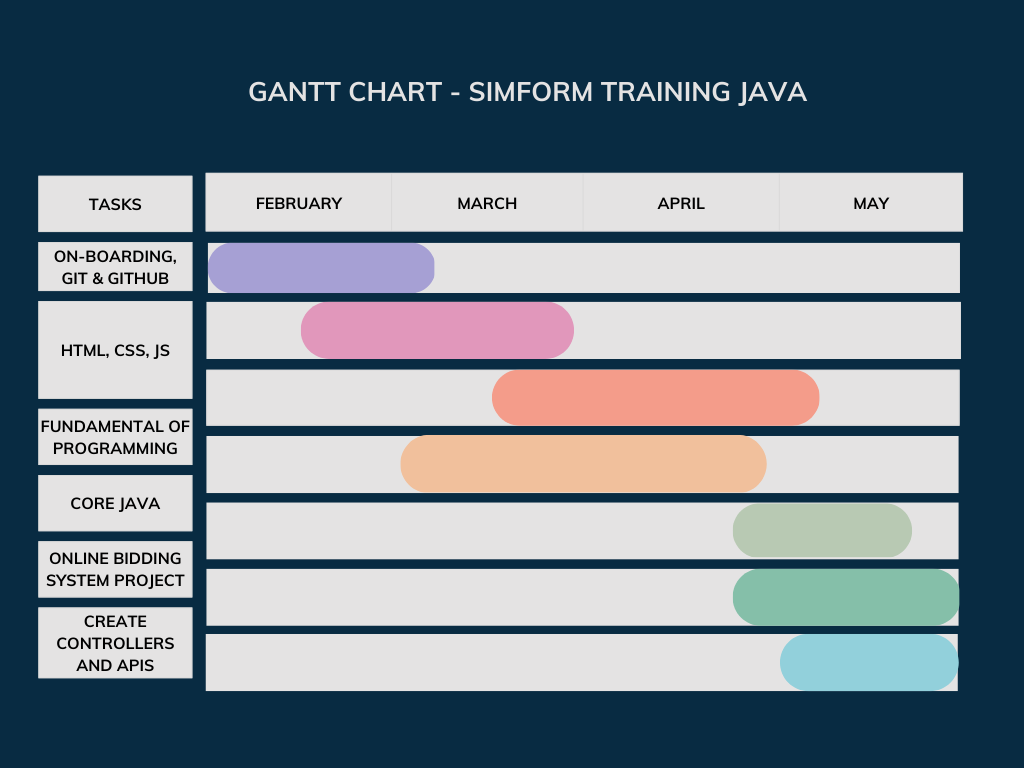
****

Figure 3-1 Gantt chart

# System Analysis

## Study of current System

There are some existing applications that allow users for bidding but the product is not available in your local area, you cannot do inspection of the product that you are going to buy. By online Auction application user will be able to bid for product that is available in his local area.

## Problem and weakness of Current System

Currently There is also onsite bidders participate in the Event that’s why they may repeatedly interrupting by bidding and online bidders cannot completely know who is winning the bid. There may be spam users who enter bid and then request to retract.

## Requirement analysis of New System

User requirements include minor details, but most importantly users must be aware that the system works properly with full availability, reliability, security and safety. The user responsibility is as follows: User should know how to use the application and should adhere to the guidelines and prescribed standards.

### Hardware-Software Used

* + - IDE: Intelij Idea
    - Backend: Java
    - Database: MySQL
    - Minimum 4 GB RAM
    - Any Browser
    - Microsoft® Windows® 7/8/10.

## System Feasibility

### Does the system contribute to the overall objectives of the organization?

Yes, system is eventually intended to make it easier for Buyers and Sellers for trading goods in an online auction at ease of their time and from any remote location.

### Can the system be implemented using the current technology and within the given cost and schedule constrain

Yes, This system uses tools and technologies like Intelij IDEA, MySQL and Java which are free and open source software with active communities backing the system.

### Can the system be integrated with other systems which are already in place?

Yes, but as it is a standalone system, It doesn’t require any major integrations. We can include integration with a payment gateway as an example of integration with other system.

## Process in New System

* + - Signup and login for users: This process will call APIs to set and get data of users (Sellers and Bidders) from database
    - Create Auction Event: Sellers can create their events (Auctions) to sell their goods.
    - Bidding from Bidder: When an event is running, any bidders can bid on their item of choice
    - Authorization: After Login, JWT is generated for authorization. So, users can not access unauthorized pages.
    - Retract Bid: If bidder wants to retract the bid place by them on any item, they can contact Admin to retract their bid.

## Features of New System

* + - It is an Online platform where sellers can create auctions and buyers can bid on item of their choice.
    - It is very easier for sellers to create an auction and if they face ant problems in the process then our team is always there to create auction on the seller’s behalf.
    - It is easier for buyers to bid on their choice of item at any time and from any remote location.
    - If bid was places by mistake, then it can be retracted by contacting the Admin.

## Process of Proposed System

An architectural diagram of a proposed system that is used to abstract the overall outline of the software system. To allow relevant users to understand a system architecture and follow it in their decision-making, we need to communicate information about the architecture. It is an important tool as it provides an overall view of the physical deployment of the software system and its evolution roadmap.

## Selection of software

Organization is using software like Java, MySQL database for most of application and services so that software we have used.

# SYSTEM DESIGN

## SYSTEM ARCHITECTURE DESIGN

Systems design is the process of defining the architecture, modules, interfaces, and data for a system to satisfy specified requirements. Systems design could be seen as the application of systems theory to product development. There is some overlap with the disciplines of systems analysis, systems architecture and systems engineering

### Architectural Design

The architectural design of a system emphasizes the design of the systems architecture that describes the structure, behavior and more views of that system and analysis.

### Logical Design

The logical design of a system pertains to an abstract representation of the data flows, inputs and outputs of the system. This is often conducted via modelling, using an over- abstract (and sometimes graphical) model of the actual system. In the context of systems, designs are included.

### Physical Design

The physical design relates to the actual input and output processes of the system. This is explained in terms of how data is input into a system, how it is verified/authenticated, how it is processed, and how it is displayed. In physical design, the following requirements about the system are decided.

* Input requirement
* Output requirements
* Storage requirements
* Processing requirements
* System control and backup or recovery

User Interface Design is concerned with how users add information to the system and with how the system presents the information back to them. Data Design is concerned with how the data is represented and stored within the system. Finally, Process Design is concerned with how data moves through the system, and with how and where it is validated, secured and/or transformed as it flows into, through and out of the system. At the end of the system design phase, documentation describing the three sub-tasks is produced and made available for use in the next phase.

Physical design, in this context, does not refer to the tangible physical design of an information system. To use an analogy, a personal computer's physical design involves input via a keyboard, processing within the CPU, and output via a monitor, printer, etc. It would not concern the actual layout of the tangible hardware, which for a PC

would be a monitor, CPU, motherboard, hard drive, modems, video/graphics cards, USB slots, etc. It involves a detailed design of a user and a product database structure processor and a control processor. The H/S personal specification is developed for the proposed system.

### Use Case Diagram

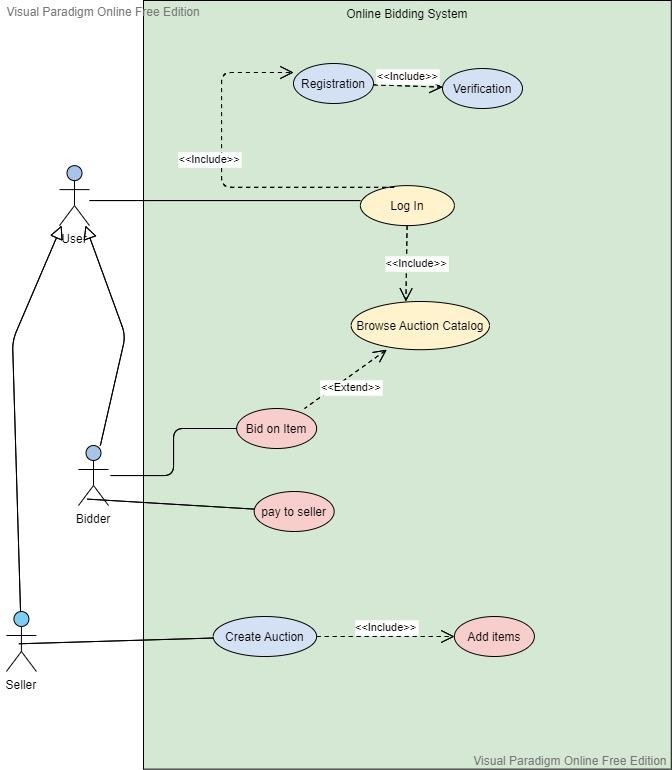


Fig. 5.1.1 Use Case Diagram

### Class Diagram

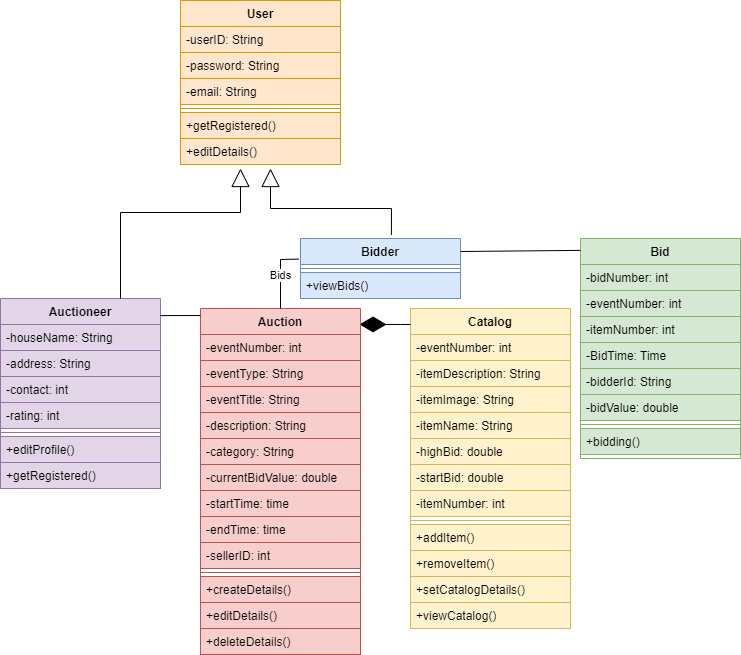


Fig. 5.1.2 Class Diagram

### Sequence Diagram

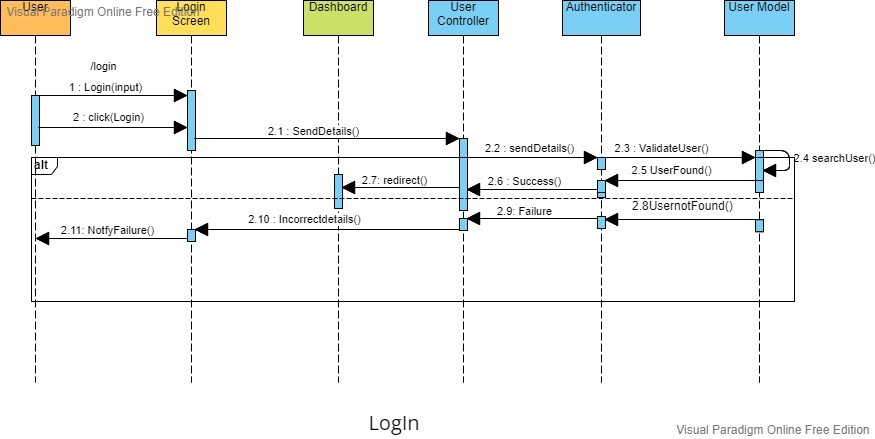


Fig. 5.1.3 Sequence Diagram Login

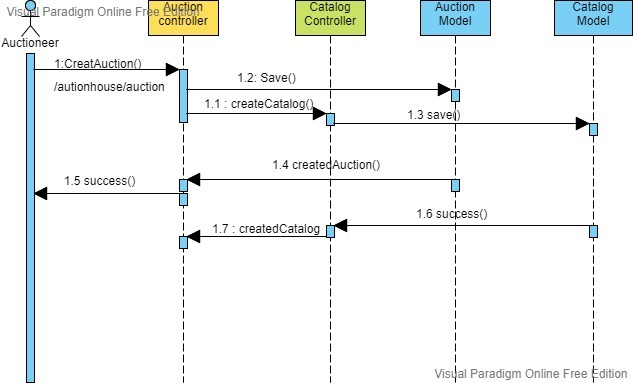


Fig. 5.1.4 Sequence Diagram Auction Creation

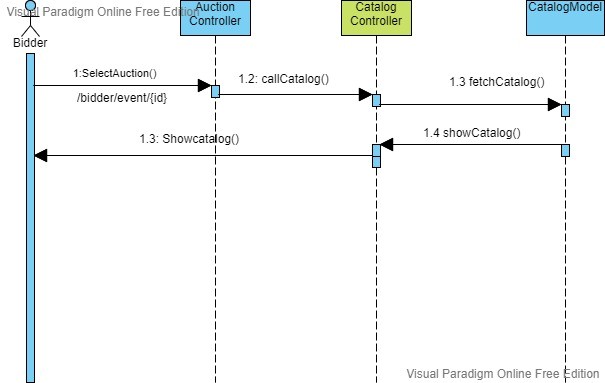


Fig. 5.1.5 Sequence Diagram Select Auction

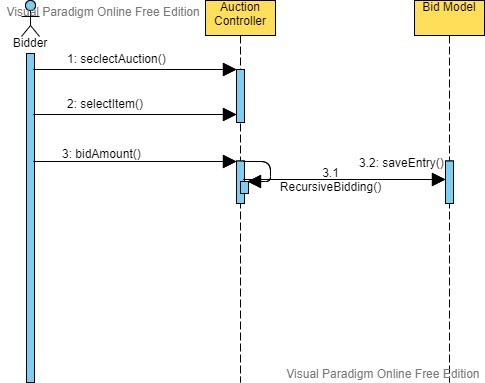


Fig. 5.1.6 Sequence Diagram Bid

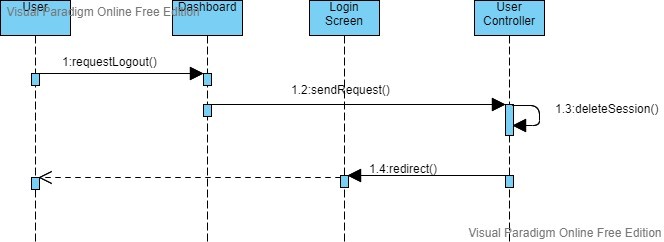


Fig. 5.1.7 Sequence Diagram Logout

## DATABASE DESIGN

### Table and Relationship

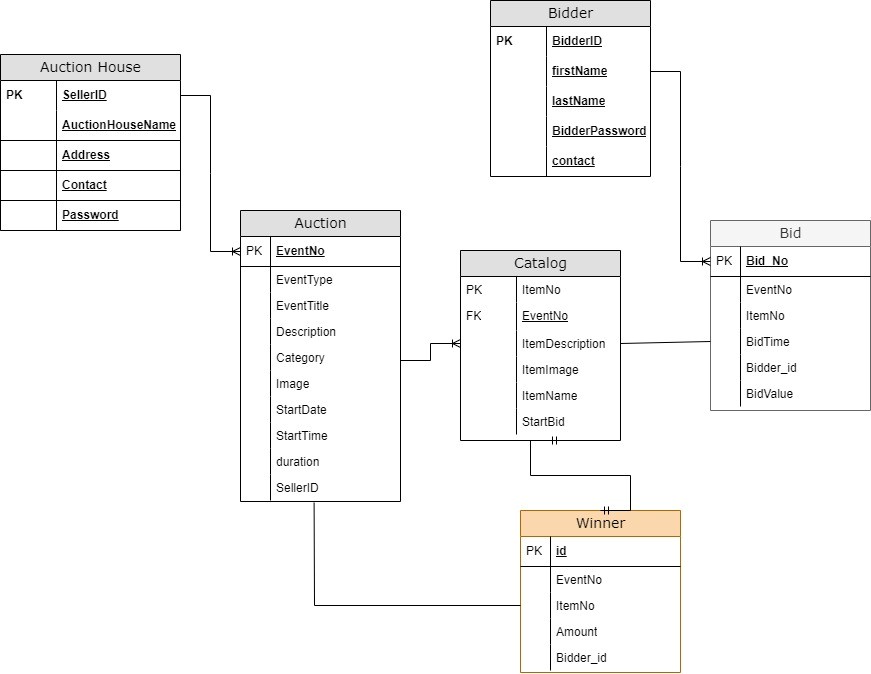


Fig. 5.2.1 Database Schema

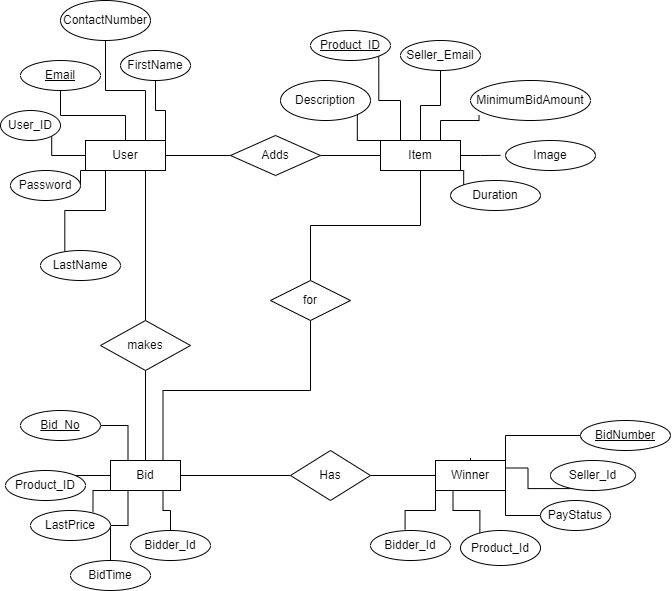


Fig. 5.2.2 ER Diagram

DSDS

# IMPLEMENTATION PLANNING

Planning is an essential aspect of any successful project. However, it can be difficult to turn goals and strategy into tangible action, and, therefore, projects of all sizes and across all industries have a high tendency to fail. Implementation planning can reduce this chance of failure by helping turn strategy into action.

## IMPLEMENTATION ENVIRONMENT

For implementation I have used:

* + 1. Spring Tool Suite as IDE
    2. Java as programming language

Spring Tool Suite is an IDE which we found as the most suitable ide to run our project.

## PROGRAM/MODULES SPECIFICATION

### MySQL

MySQL is a relational database management system (RDBMS) based on the SQL (Structured Query Language) queries. It is one of the most popular languages for accessing and managing the records in the table. MySQL is open-source and free software under the GNU license. Oracle Company supports it.

### Java

Java is used as the programming language for developing and maintaining the system. Java is a widely used high-level programming language for general purpose programming, The language provides constructs intended to enable writing clear programs on both a small and large scale. Java features a static type system and automatic memory management and supports object-oriented programming paradigm. It has a large and comprehensive standard library. Java compilers are available for many operating systems, allowing Java code to run on a wide variety of systems.

## CODING STANDARDS

Coding techniques incorporate many facts about software development. Although they usually have no impact on the functionality of the application; they contribute to an improved comprehension of source code. All forms of source code are considered here, including programming, scripting mark-up, and query languages.

The coding techniques defined are not proposed to form an inflexible set of coding standards. Rather, they are meant to serve as a guide for developing a coding standard for a specific software project.

### Purpose of coding standards and best practices

To develop reliable and maintainable applications, you must follow coding standards and best practices. The naming conventions, coding standards and best practices described in this document are compiled from our own experience and by referring to various guidelines. There are several standards that exist in the programming industry. None of them are wrong or bad and you may follow any of them. What is more important is, selecting one standard approach and ensuring that everyone is following it.

In this phase of software development, the design is related to a system converted into a machine-readable code that can be compiled and executed. Although the coding phase does not affect the structure of the system, it has a great impact on the internal structure of the module, which affects the test ability, under the stability of the system.

## CODING SCENARIO

**@Controller**

**public class DevelopersController** {

**@Autowired**

DeveloperRepository repository;

**@Autowired**

SkillRepository skillRepository;

**@RequestMapping**("/developer/{id}")

**public** String **developer**(@PathVariable Long id, Model model) { model.addAttribute("developer",

repository.findOne(id));

model.addAttribute("skills", skillRepository.findAll());

**return** "developer";

}

**@RequestMapping**(value="/developers",method=RequestMethod.GET) **public** String **developersList**(Model model) {

model.addAttribute("developers", repository.findAll());

**return** "developers";

}

**@RequestMapping**(value="/developers",method=RequestMethod.POST

)

**public** String **developersAdd**(@RequestParam String email,

@RequestParam String firstName, @RequestParam String lastName, Model model) {

Developer newDeveloper = **new** Developer(); newDeveloper.setEmail(email); newDeveloper.setFirstName(firstName); newDeveloper.setLastName(lastName); repository.save(newDeveloper);

model.addAttribute("developer", newDeveloper); model.addAttribute("skills",

skillRepository.findAll());

**return** "redirect:/developer/" + newDeveloper.getId();

}

# TESTING

## TESTING PLAN

The objective of the system testing is to ensure that all individual programs are working as expected, that the programs link together to meet the requirements specified and ensure that the computer system and the associated clerical and other procedures work together. Systems are not designed as entire systems but they are tested as single systems. The analyst must perform both unit and system testing.

Different types of testing methods are available. We have tested our system for different aspects like Does the application meet the goals for which it has been designed? This was a very important question that stood before me as the application was designed to be implemented on such a large network.

To fulfill its goal of being able to run on different systems we went through a series of tests at different places where this is supposed to be used the most. As we need to make our system efficient enough, we need to test it thoroughly.

Finally, I tested the system with real-time data, for which it is actually designed. We are successful in satisfying our needs as it was designed according to client's requirements. But it is very necessary to maintain this application and so our work is not still over.

## TESTING STRATEGY

Once source code has been generated, the software must be tested to uncover as many errors as possible before delivery to the customer. Our goal is to design a series of test cases that have a high likelihood of finding errors. Software testing techniques provide systematic guidance for designing tests that (1) Exercise the internal logic of software components (2) Exercise the inputs and outputs domains of the program to uncover errors in program function, behavior, and performance.

During the early stages of testing, a software engineer performs all tests. However, as the testing process progresses, testing specialists may become involved. Reviews and other activities can and do uncover errors, but they are not sufficient. Every time the program is executed, the customer tests it! Therefore, you have to execute the program before it gets to the customer with the specific intent of finding and removing all errors. In order to find the highest possible number of errors, tests must be conducted systematically and test cases must be designed using disciplined techniques.

### Testing Objectives

* + - Testing is a process of executing a program with the intention of finding an error.
    - A good test case is one that has a high probability of finding an as- yet- undiscovered error.
    - A successful test is one that uncovers an as-yet-undiscovered error.

### Unit Testing

Unit testing is a software development process in which the smallest testable part of an application, called units, are individually scrutinized for proper operation. Unit testing is often automated but it can also be done manually. This testing mode is a component of Extreme Programming (XP), a pragmatic method of software development that takes a meticulous approach to build a product by means of continual testing and revision.

Unit testing involves only those characteristics that are vital to the performance of the unit under test. This encourages developers to modify the source code without immediate concerns about how such changes might affect the functioning of the units or the program as a whole. Once all of the units in a program have been found to be working in the most efficient and error-free manner possible, larger components of the program can be evaluated by means of integration testing.

### System Testing

Now, it’s time for whole System testing. We have found some cosmetic bugs and minor bugs. We have fixed it and tested it again. We worked on each error and exception that we got while testing and most of them are resolved or handled programmatically.

### Recovery Testing

It is a system test that forces the software to fail in a variety of ways and verifies that recovery is properly performed.

### Performance Testing

It is designed to test the run-time performance of software within the context of an integrated system performance testing that occurs throughout all steps in the testing process.

## TESTING METHODS

### Acceptance Testing

Acceptance testing can be connected by the end-user, customer, or client to validate whether or not to accept the product. Acceptance testing may be performed as part of the hand-off process between any two phases of development. The acceptance test suite is run against the supplied input data or using an acceptance test script to direct the tester. Then the results obtained are compared with the expected results. If there is a correct match for every case, the test suite is said to pass.

### Alpha and Beta Testing

The alpha test is conducted at the developer’s site by a customer. The software is used in a natural setting with the developer “looking over the shoulder” of the user and recording errors and usage problems. Alpha test is conducted in a controlled environment. The beta testing is conducted at one or more customer sites by the end- user of the software. Unlike alpha testing, the developer is generally not present. Therefore, the beta test is a “live” application of the software in an environment that cannot be controlled by the developer.

### Black-Box testing

Also known as functional testing. Software testing techniques whereby the internal working of the item being tested are not known by the tester. For example, in a black box test on a software design, the tester only knows the inputs and what the expected outcomes should be and not how the program arrives at those outputs. The tester does not ever examine the programming code and does not need any further knowledge of the program other than its specification.

The advantages of this type of testing include:

* The test is unbiased as the designer and the tester are independent of each other
* The tester does not need knowledge of any specific programming languages.
* The test is done from the point of view of the user, not the designer. Test cases can be designed as soon as the specifications are complete.

The disadvantages of this type of testing include:

* The test can be redundant if the software designer has already run a test case.
* The test cases are difficult to design. Testing every possible input stream is unrealistic because it would take an inordinate amount of time: hence many program paths will go untested.

### White Box Testing

Also known as glass box, structural, clear box, and open box testing. A software testing technique whereby explicit knowledge of the internal workings of the item being tested are used to select the test data. Unlike black-box testing, white box testing uses specific knowledge of programming code to examine outputs. The test is accurate only if the tester knows what the program is supposed to do. He or she can then see if the program diverges from its intended goal.

## TEST CASES

To minimize the number of errors in software, a rich variety of test design methods have evolved for software. These methods provide the developer with a systematic approach to testing. More importantly, methods provide a mechanism that can help to ensure the completeness of the test and provide the highest likelihood for uncovering errors in software.

An engineering product can be tested in one of the two ways:

* + - Knowing the specified function that product has been designed to perform, tests can be conducted that demonstrate each function is fully operational while at the same time searching for errors in each function.
    - Knowing the internal workings of a product, tests can be conducted to ensure that “all gear mesh “, that is, internal oppression are performed according to specifications and all internal components have been adequately exercised. Here are the test cases that we had made for our application.

Table 7.1 Test Cases

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Purpose** | **Input** | **State** | **Expected Output** | **Actual Output** | **Test Result** |
| 1 | User Login | Registered Email, Correct Password,  Submit | Logout | Success | Success | Pass |
| 2 | User Login | Unregistered Email, Password | Logout | Ask user to Register First | Ask user to Register First | Pass |
| 3 | User Register | UserName, Email, other details, Password | New User | Success | Success | Pass |
| 4 | Landing Page | Valid Credentials | Logged in | Success | Success | Pass |
| 5 | Categorized Searching | Selected checkbox of  category | Filter products | Show categorized products | Show categorized products | Pass |
| 6 | Select Auction for bid | Select auction event | Live auction | Enter in Live Auction | Enter in Live Auction | Pass |
| 7 | Start Bid on product | Click bidnow button | Trigger bid | Bid reflected | Bid reflected | Pass |
| 8 | Add Auction | Auction details, Catalog details | LoggedIn as Auctioneer | Success | Successfully added  auction | Pass |
| 9 | Start Bid | Trigger button by clicking | Auctioneer | Bid value reflected | Success | Pass |
| 10 | Accept Bid | Click Accept button | Auctioneer | Bid Completed on bidder  side | Bid completed on bidder side | Pass |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 11 | Logout | Click logout button | Logged in | Logged out | Logged out | Pass |

# USER MANUAL

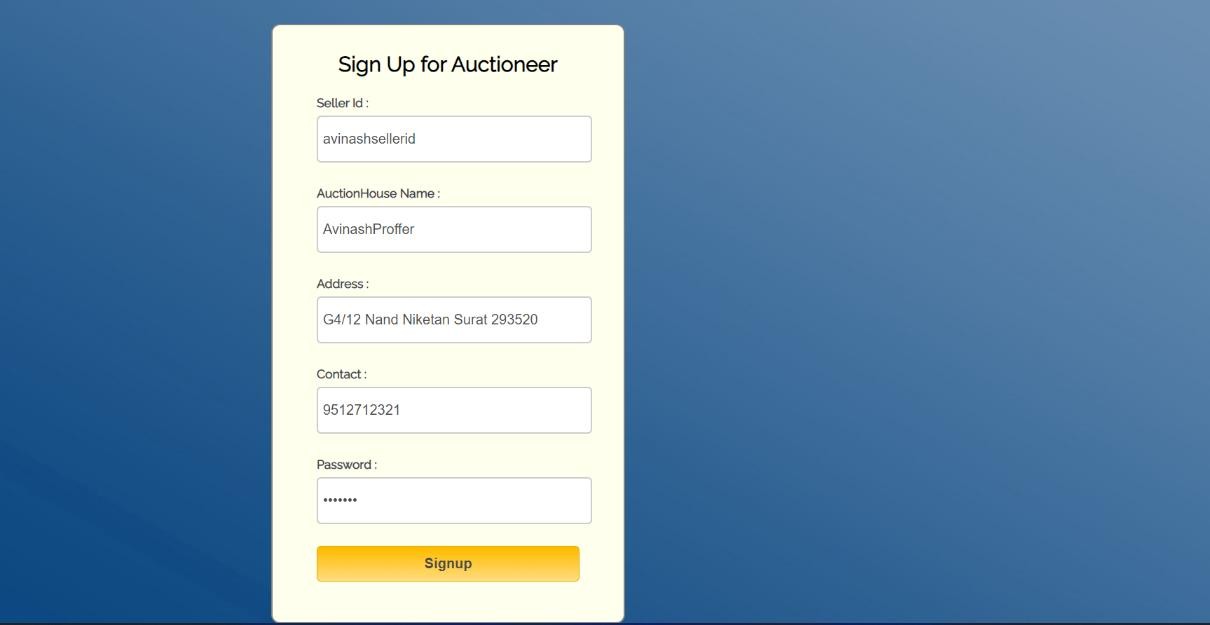


Fig. 8.1 Sign Up Auctioneer

* Fig 8.2 – Dev Portal (Availability & Pricing)

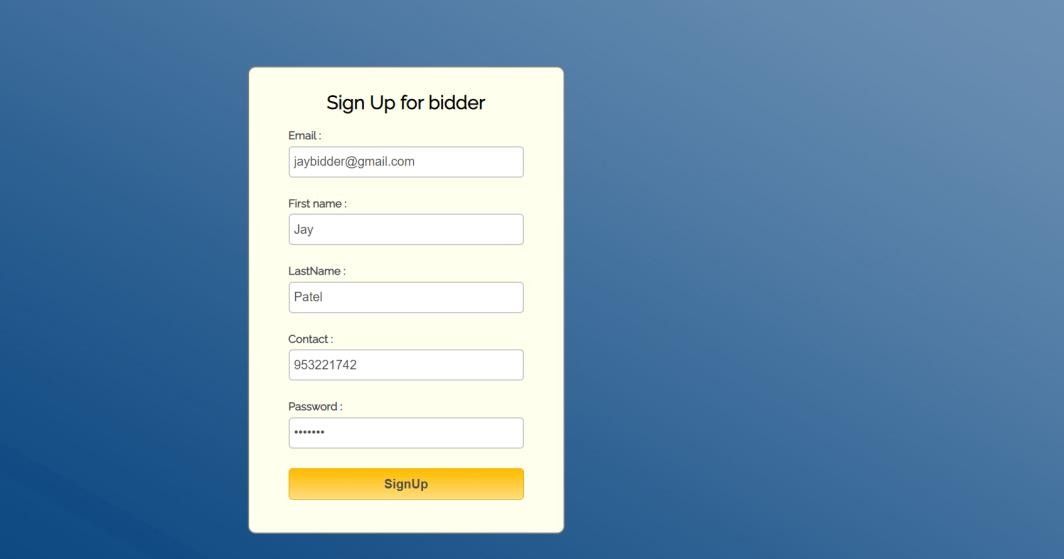


Fig. 8.2 Sign Up Bidder

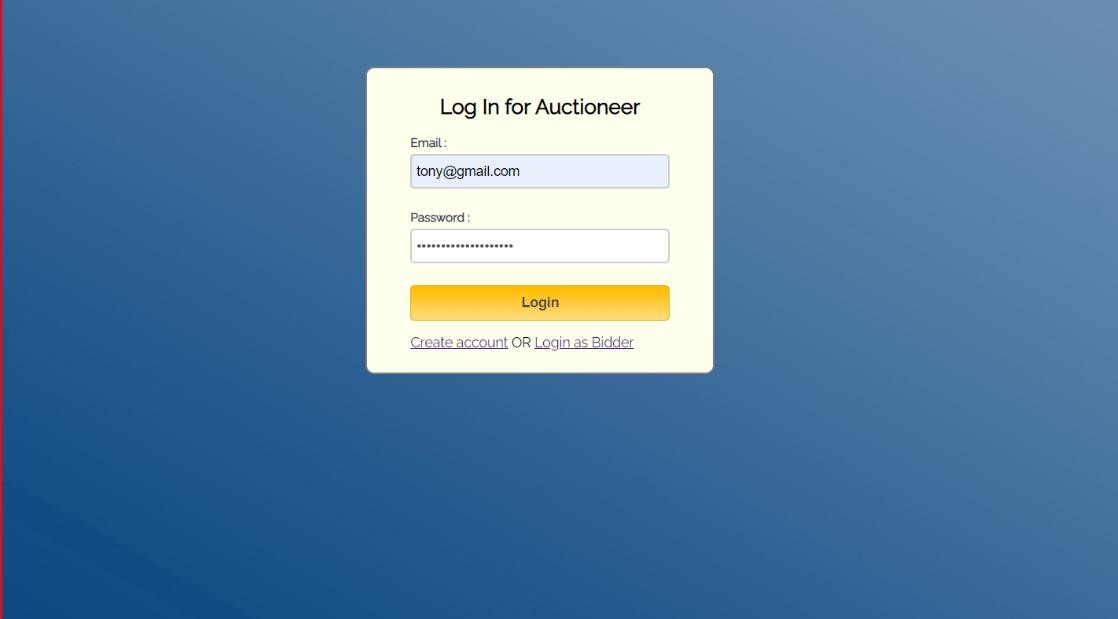


Fig. 8.3 Login Auctioneer

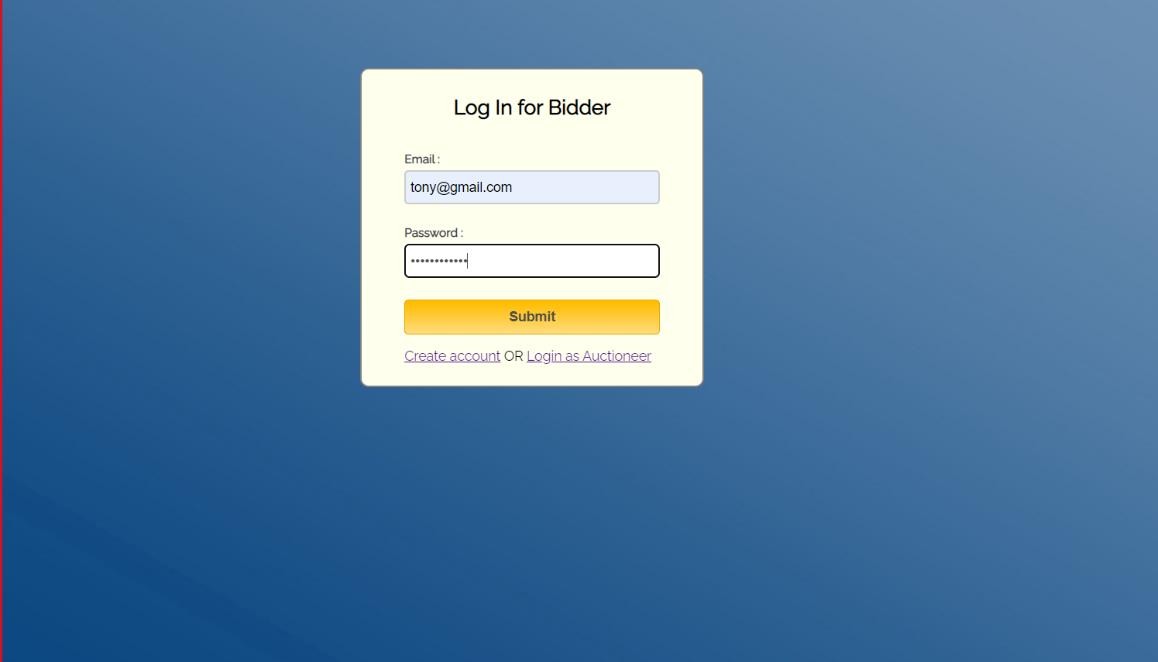


Fig. 8.4 Login Auctioneer

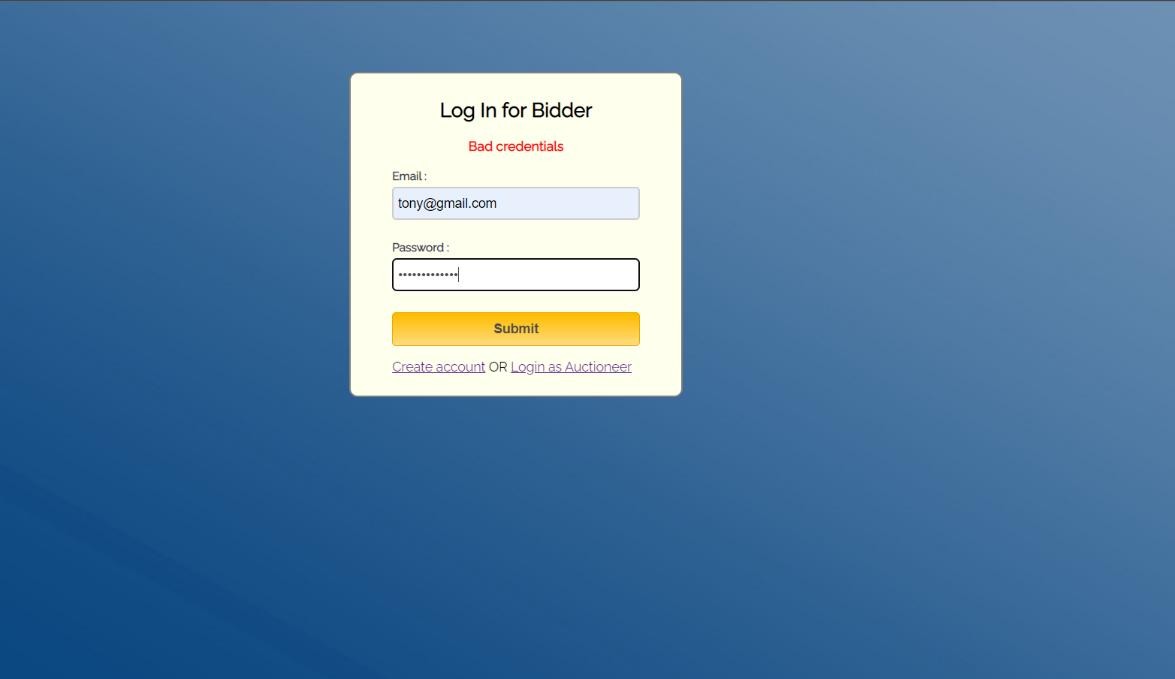


Fig. 8.5 Bidder Login wrong data

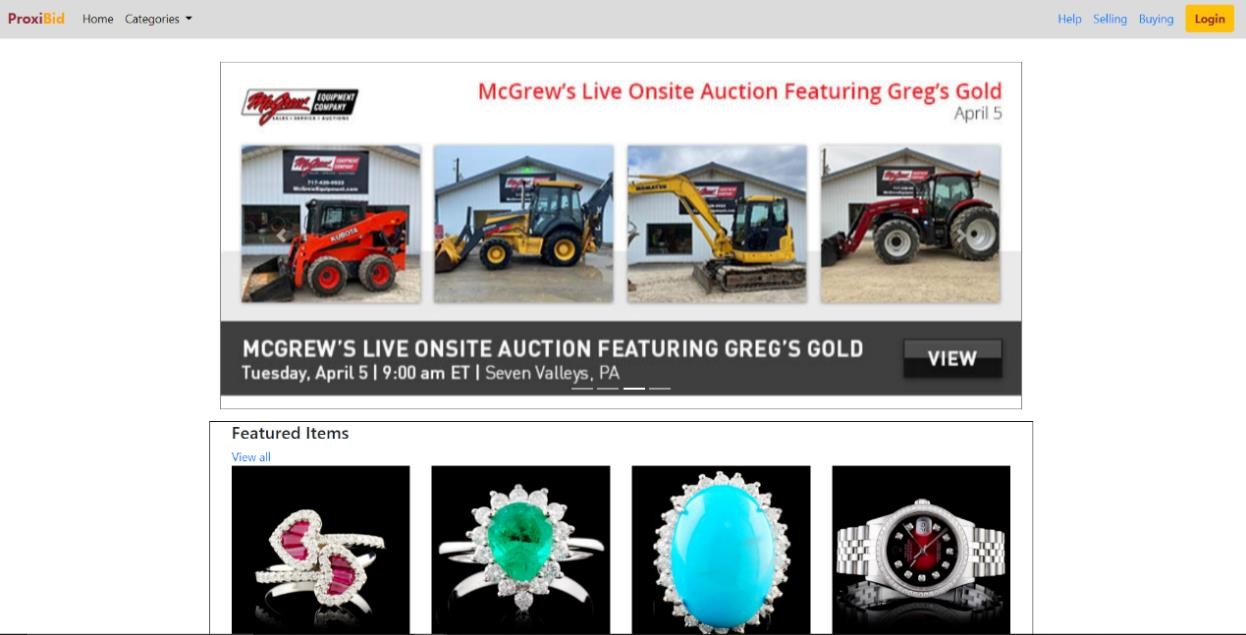


Fig. 8.6 Landing Page

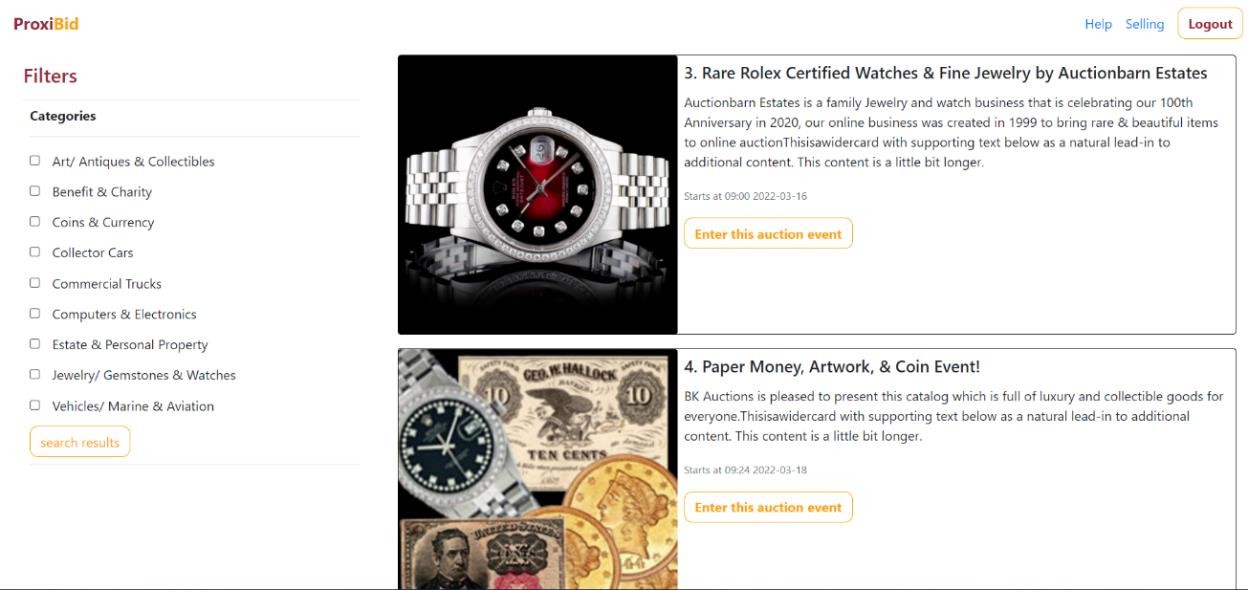


Fig. 8.7 Dashboard

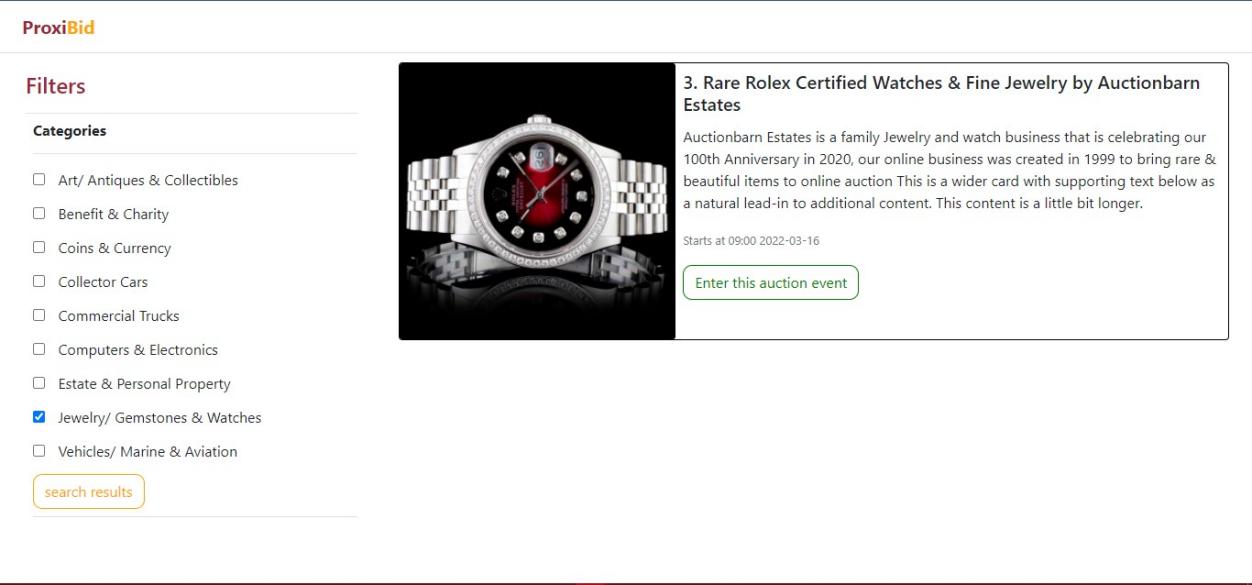
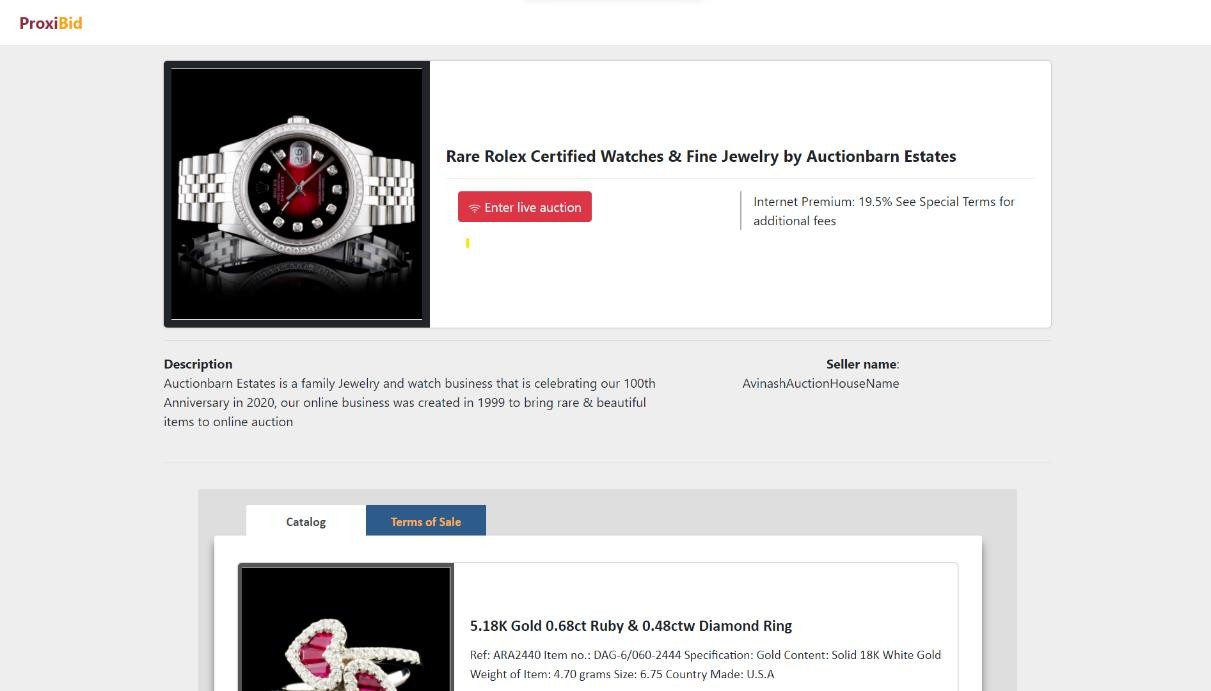


Fig. 8.8 Category Selection



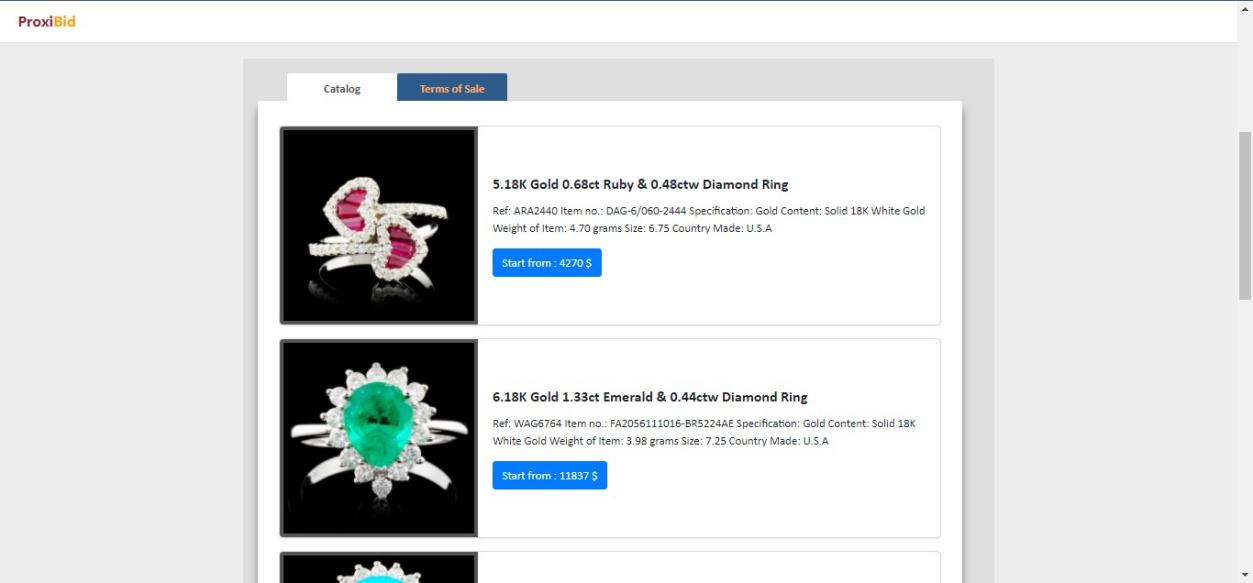


Fig. 8.9 Auction Details

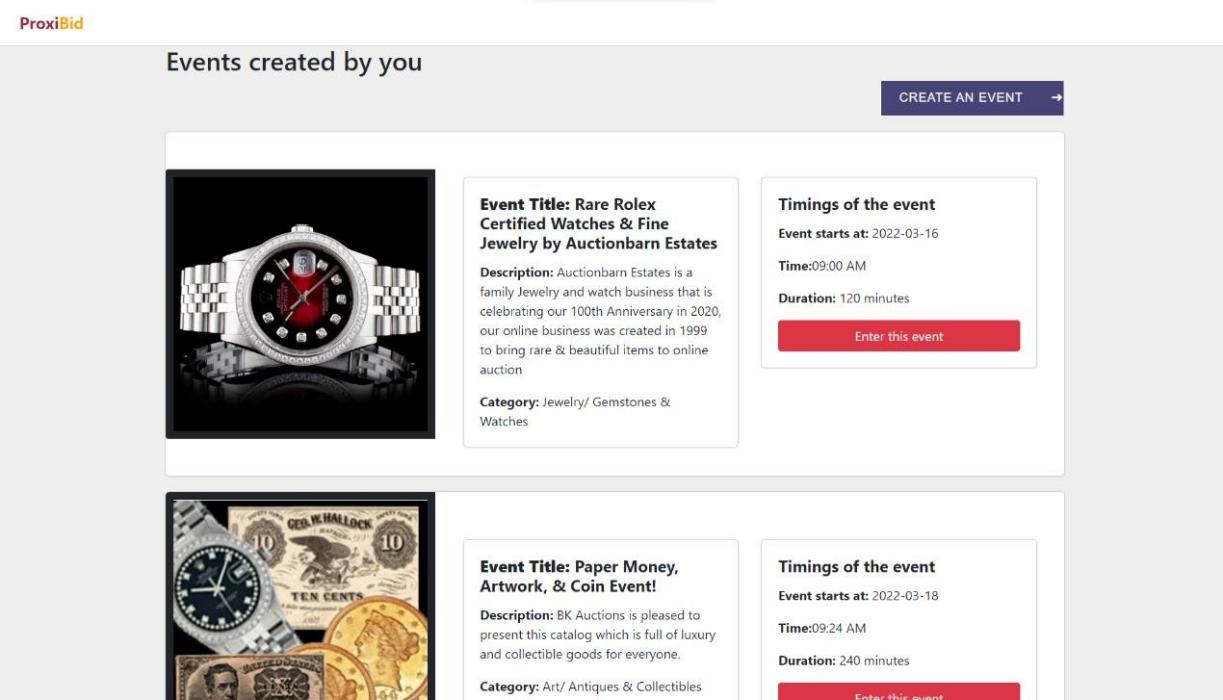


Fig. 8.10 Auctioneer’s Event

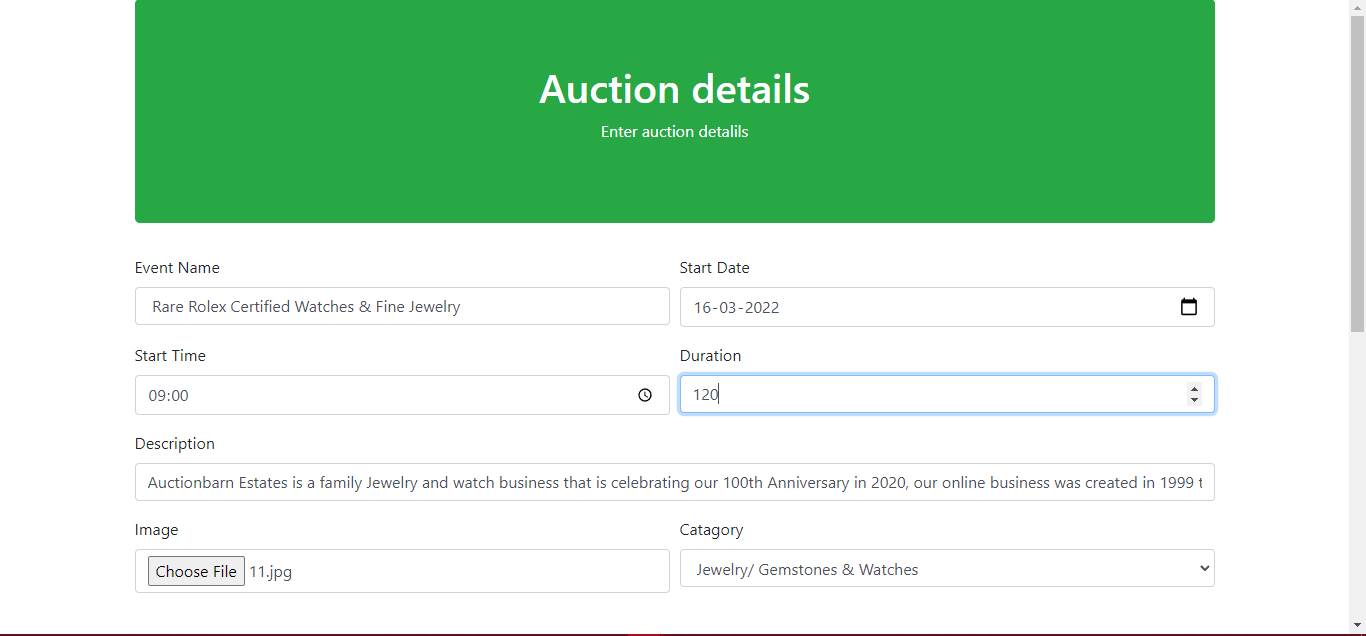


Fig. 8.11 Create Auction

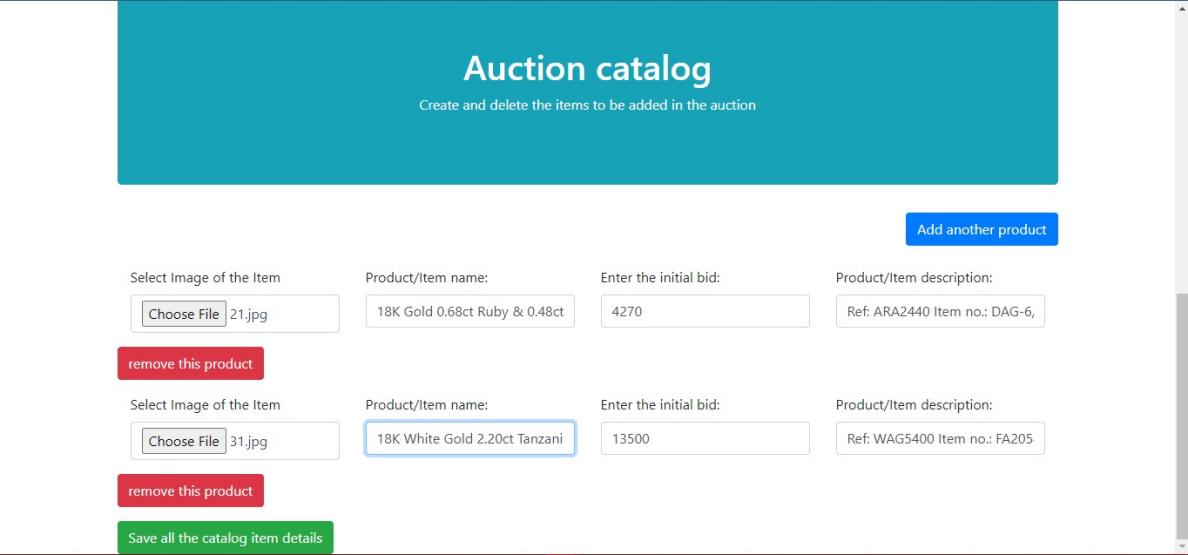


Fig. 8.12 Add Catalog

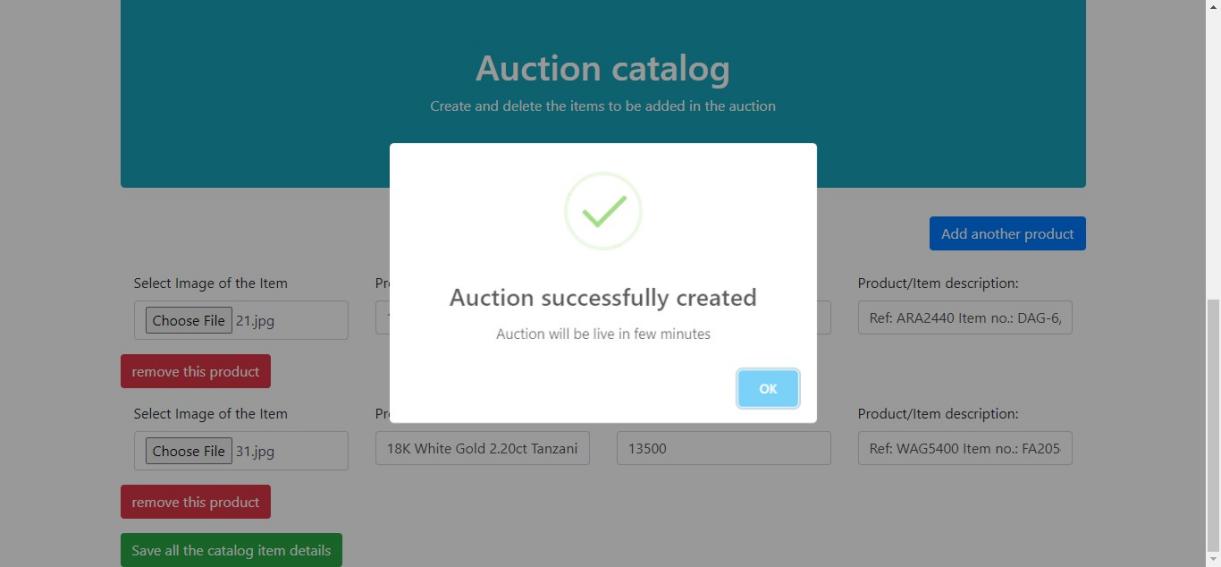


Fig. 8.13 Auction Created Successfully

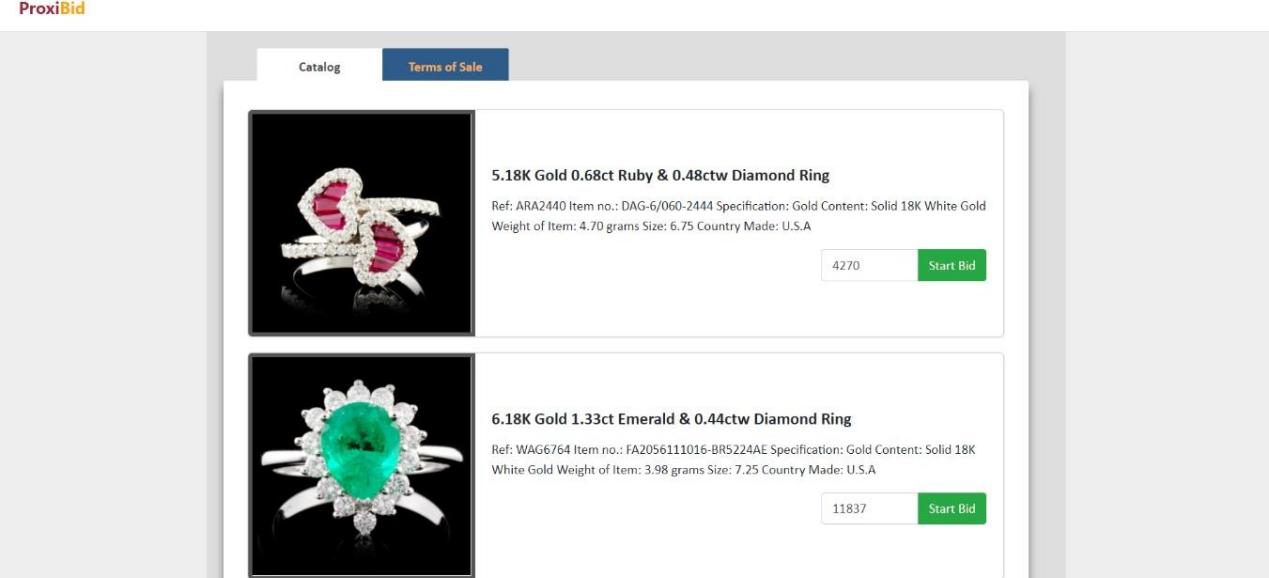


Fig. 8.14 Start Bid

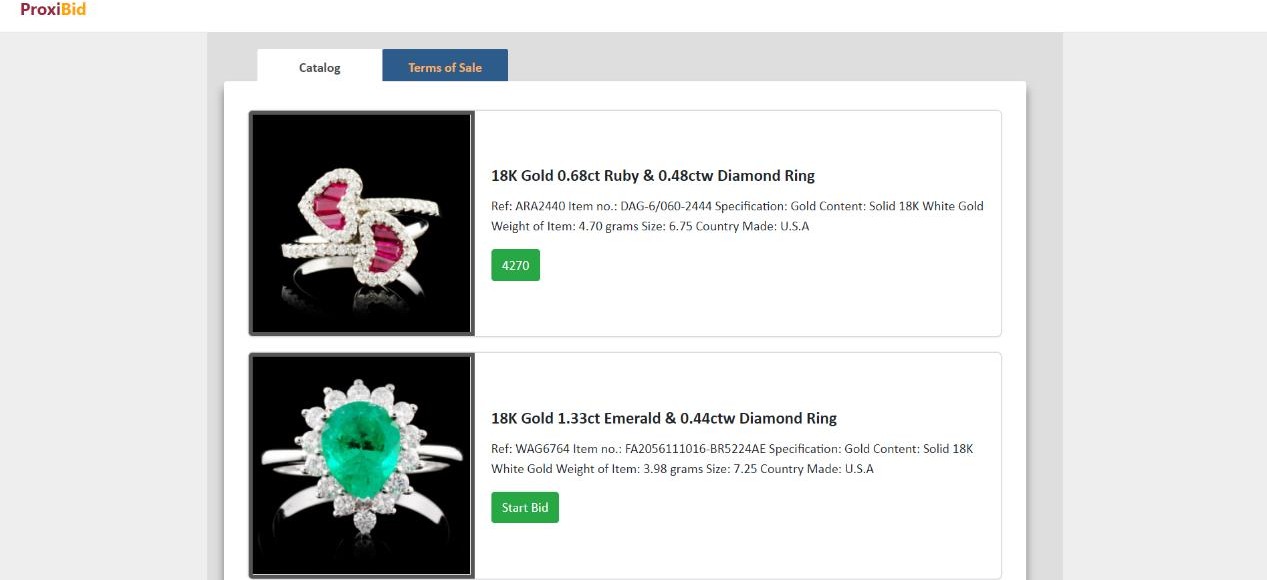


Fig. 8.15 Show Bid

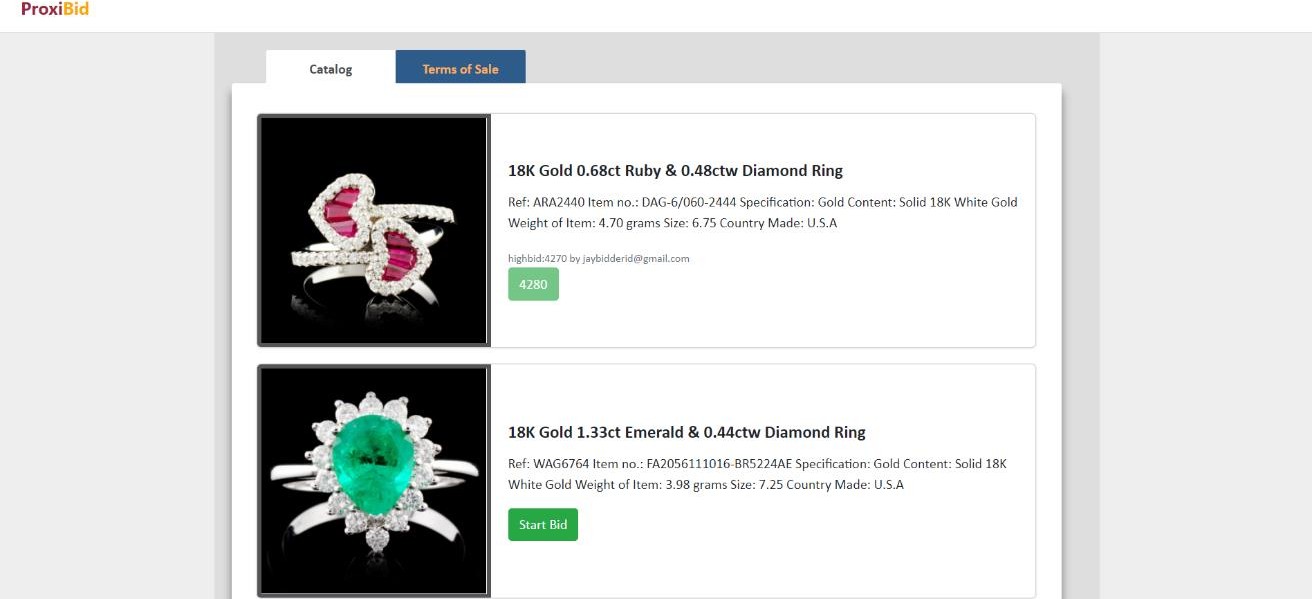


Fig. 8.16 Do Bid

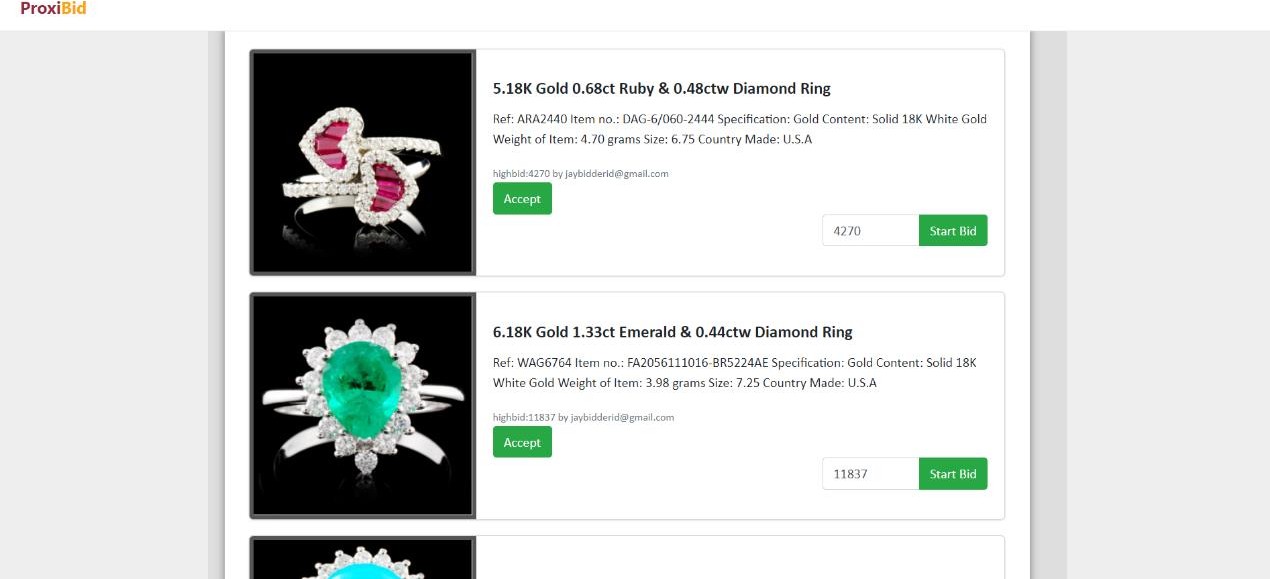
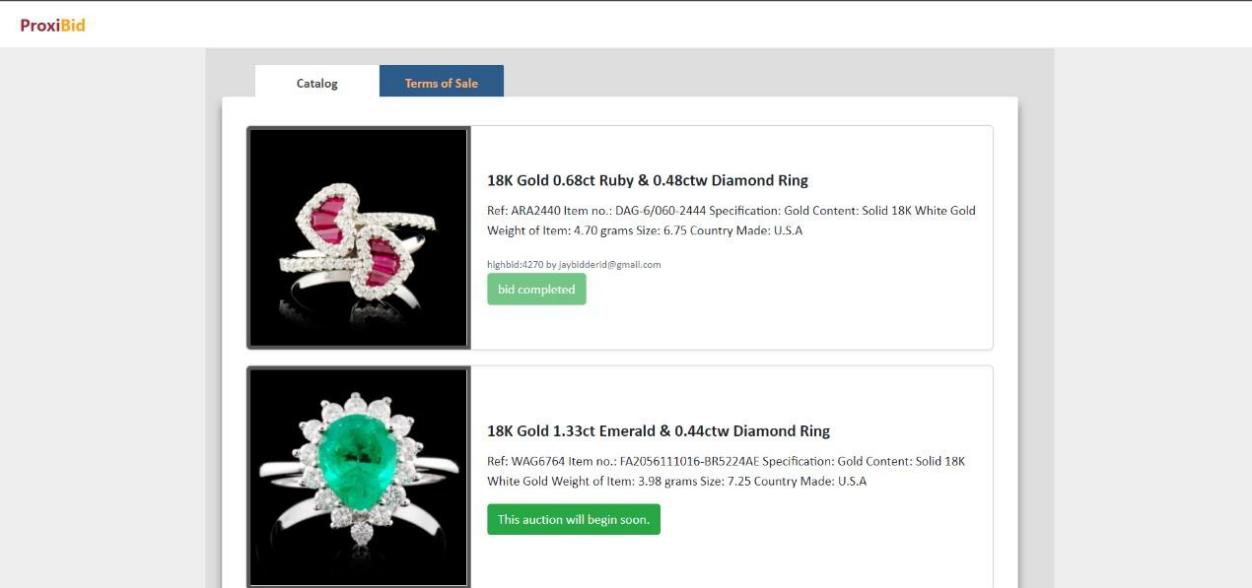


Fig. 8.17 Accept Bid



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Fig. 8.18 Bid Completed

# Conclusion and Discussion

## Overall Analysis of Internship

The main reason for building system is to provide a Online platform for hosting auctions. Also, it will act as a platform where sellers can sell their goods by hosting an auction and buyers can buy their item of choice by bidding on them. The other major advantage that this system will have over the others is that it will make the users experience very smooth and hassle free.

## Dates of Continuous Evaluation

* + - Review1 of Internship - 11/03/2023
    - Review2 of Internship - 01/04/2023
    - Review3 of Internship - 20/04/2023

## Summary of Internship

I began my internship with Simform in February 2023. I found motivation in my daily commutes through an incredible work environment. The employees were immensely friendly, supporting, customer-service oriented, caring, and honest. It was an opportunity for me to prove myself as a reputable employee, a reliable coworker, and a motivated student. It was also an opportunity to gain the critical office experience I had not received through my past work experience.

One of the most valuable skills I developed was my versatility. In companies it is common to work across various Technology and that was exactly what I did. Over the duration of my internship, I had worked on a product which is an Online Bidding Platform.

I earned an increasing amount of responsibility as I accomplished more tasks and was always happy to receive new work. The support and direct feedback that I received was more than enough to make me feel comfortable. I am greatly humbled and thankful for all of my coworkers at Simform for providing me with the ability to develop personally and professionally.

# REFERENCE

* AWS: https://docs.aws.amazon.com/
* Java: https://docs.oracle.com/en/java/
* Online Gantt chart Softwa[re https://www.onlinegantt.com/#/gantt](https://www.onlinegantt.com/%23/gantt)
* Spring: <https://spring.io/>

**Annexure 2**

**Form by Industry expert**

Student Name: YASH TAILOR Date: 26/04/2023

Work Supervisor: MR. YASH FOFDIYA Title: Java Company/Organization: Simform Solutions LLP

Solutions Enrollment No: 190770107282

Internship Address: 5th floor Bsquare 2, Nr. Doubletree Hotel, Iscon-Bopal Road, Ahmedabad-380058, India.

Dates of Internship: From 07/02/2023 To 07/08/2023

Please evaluate your intern by indicating the frequency with which you observed the following behaviors:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameters | Needs improvement | Satisfactory | Good | Excellent |
| Shows interest in work and his/her initiatives |  |  |  |  |
| Produces high quality work and accepts responsibility |  |  |  |  |
| Uses technical knowledge and expertise |  |  |  |  |
| Analyzes problems effectively |  |  |  |  |
| Communicates well and writes effectively |  |  |  |  |

Overall performance of student intern: (Needs improvement/ Satisfactory/Good/Excellent):

Additional comments, if any:

Signature of Industry person with name and Stamp: **Mr. Yash Fofdiya**



Signature of the Faculty Mentor