A

PROJECT REPORT

ON

E-ANTIQUE (Online Auction System)

Submitted in partial fulfillment for the award of

Post Graduate Diploma in Advance Computing

(PG-DAC) from

INSTITUTE OF EMERGING TECHNOLOGIES

Authorized Training Centre

Under the Guidance of

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CERTIFICATE

This is to certify that the project report entitled **E-ANTIQUE(Online Auction System)** is a bonfire work carried out by **WAGH AKSHAY SUNIL, WALUNJ ATISH BHAUSAHEB, SAYYED SHARUKH ARIF, SAVEKAR SAURABH CHANDRAKANT,**

AMBADKAR SAHIL ANILRAO and submitted in partial fulfillment of the requirement for the C-DAC ACTS, DAC course in Institute of Emerging Technology in the batch of SEPT-2023.

Course Coordinator

Mr. Manoj Deshmukh

External Examiner

Mrs. Sampada Tarare

ACKNOWLEDGEMENT

This project **E-ANTIQUE (Online Auction System)** was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC).

We are very glad to mention **Mrs. Savita Vaidya** for her valuable guidance to work on this project. Her guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

Our most heart full thanks goes to **Mr. Sangram Patil (Director ,IET)** who gave all the required support and kind coordination to provide all the necessities like required hardware , internet facility and extra lab hours to complete the project and throughout the course up to the last day here in C-DAC ACTS, Pune.

Sign of students

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Abstract

An online auction is an auction which is held over the internet. It is a popular method for buying and selling products. Online Auction Systems 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 website is used to sell the antique items on the website from home. The application is made as simple as surfing a website. There by non-technical persons can also interact with the processing on the website easily.

The System was developed using an agile software development approach, which allowed iterative development and continuous feedback from stakeholders. The project team used various tools and technologies such as Java EE, MySQL, ReactJS, Javascript, HTML/CSS to build the system.

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1.Introduction:

An online auction is a type of auction that's held over the internet, unlike in-person auctions. The best part of holding an online auction is the freedom of bidding from any location with bidders connected through the internet. Ebay is a fine example of this types of auction. Apart from eBay, our E-ANTIQUE Online Auction system is used for online antique products auction. Anyone can use the portal and browse the available products, but in order to make a purchase or place an order, a user needs to log in using their unique userId and password. The default role is "User" when a user registers with the website.

This proposed system can be used by any naïve users and does not require any educational level, experience, or technical expertise in the computer field. However, it will be of good use if the user has good knowledge of how to operate a computer. Online Auction System is the public web application. There are mainly two types of users. One is the Buyer or Bidder and other is Seller.

2.Problem Definition & Scope:

2.1 Problem Definition:

Creating an online auction system involves building a website or app where people can sell and buy items through bidding. Users should be able to register, list their products for auction, and others can place bids. The system needs to handle secure payments, provide real-time updates on ongoing auctions, and have a way to resolve disputes. It's important to make it user-friendly, secure, and able to handle a large number of users and items.

2.2 Goals & Objectives:

The main objective of this project is building a website which will help buyers and sellers to participate in auction. Here if suppose some seller or buyer want to use this facility and learn how is it possible and how they can use Online Auction System to buy or sell the products(antique items), they must have knowledge of computer then they can directly register in the site and sell or buy the products online.

2.3 Major Constraints& Outcomes:

This system is designed as an online web-based application which shall be accessed by any device, either a computer, tablet, iPad, iPhone, mobile phone or PDAs. Compared to traditional auctions, online auctions can be more efficient. They reduce the time and geographical constraints associated with physical auctions. Online auctions generate a wealth of data that can be analysed to understand buyer behaviour, market trends, and the performance of different items. This information can be valuable for sellers and auction platforms.

3 Software Requirement Specification:

3.1Purposed System:

- Our System contain three actors – Admin , Seller , Buyer .
- Admin have control over system. First seller/Buyer need to register on portal . Seller will add product for auction. Seller need to set start and end date of auction as well as base price of product.
- Admin will verify every product before it goes for auctioning.
- If Admin approve product to place for auction then product will be place for auction.Otherwise it will not placed for auction. Now Buyers will Bid on product.
- At the end of auction highest bidder will win auction .Bidder can rate for the product and seller .
- This system allows multiple bids by single users.

3.2Scope:

The scope of this application to build a user friendly auctioning website, where user will be able to auctioned any product which is available nearby or anywhere in the world. By using Online Auction management system it will be easy for seller to make an auction and time saving also.Bidders/Buyers can search for the products available in the auction and even the information about the seller.Online Auction System provides the functions which connect the sellers and the bidders efficiently. Online auctions allow sellers to reach larger audiences, in different locations and geographical areas. The competitive nature of online auctions can result in higher prices for sellers. Bidders compete with each other, driving the final bid closer to the true market value of the item.

4. System Modules:

Online Auction System consists of three modules described as below:

- Seller Module
- Bidder Module
- Admin Module

4.1 Seller Module

- Seller can register and create his own account.
- Online Auction System provides the function which allows Sellers to add their products for auction.
- Seller can set base price for the product added.
- The Seller can end the auction.
- The Seller can see the current bid price on the product added. seller can give answers of buyer questions

4.2 Bidder Module

- Bidder can register and create his own account.
- Online Auction System provides the function which allow buyers to bid on product and see the description of product.
- Bidder can see sellers rating for authenticity
- Bidder can rate the product and seller
- Buyer can ask questions

4.3 Admin Module

- Online Auction System should provide all functions to admin how to handle the System.
- Admin can check KYC and authorize bidder/buyers and sellers based on Government Identity proof.
- Admin can verify every product before it goes for auctioning.
- Admin can remove fraud Sellers and Buyers.

5. Performance-Requirements

5.1 H/W Requirements:

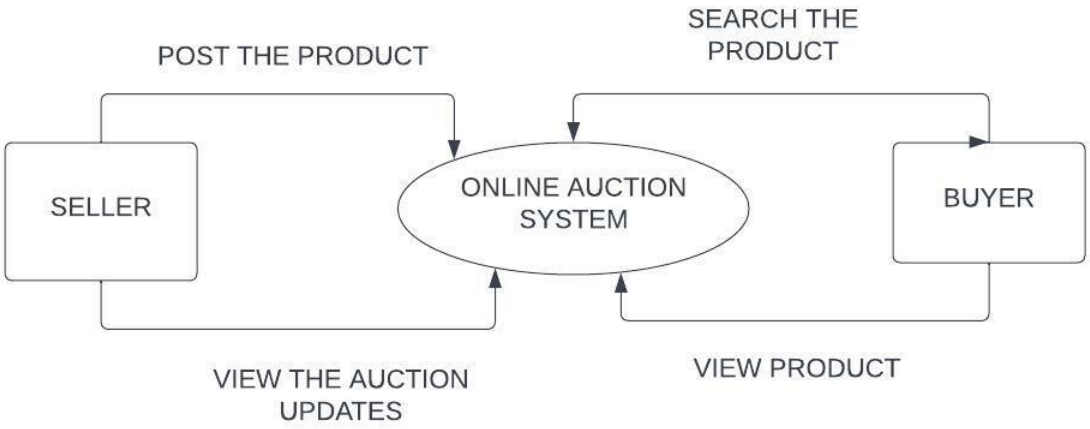
- Processor: Minimum 1 GHz; Recommended 2GHz or more
- Ethernet connection (LAN) OR a wireless adapter (Wi-Fi)
- Hard Drive: Minimum 32 GB; Recommended 64 GB or more
- Memory (RAM): Minimum 1 GB; Recommended 4 GB or above

5.2. S/W Requirements:

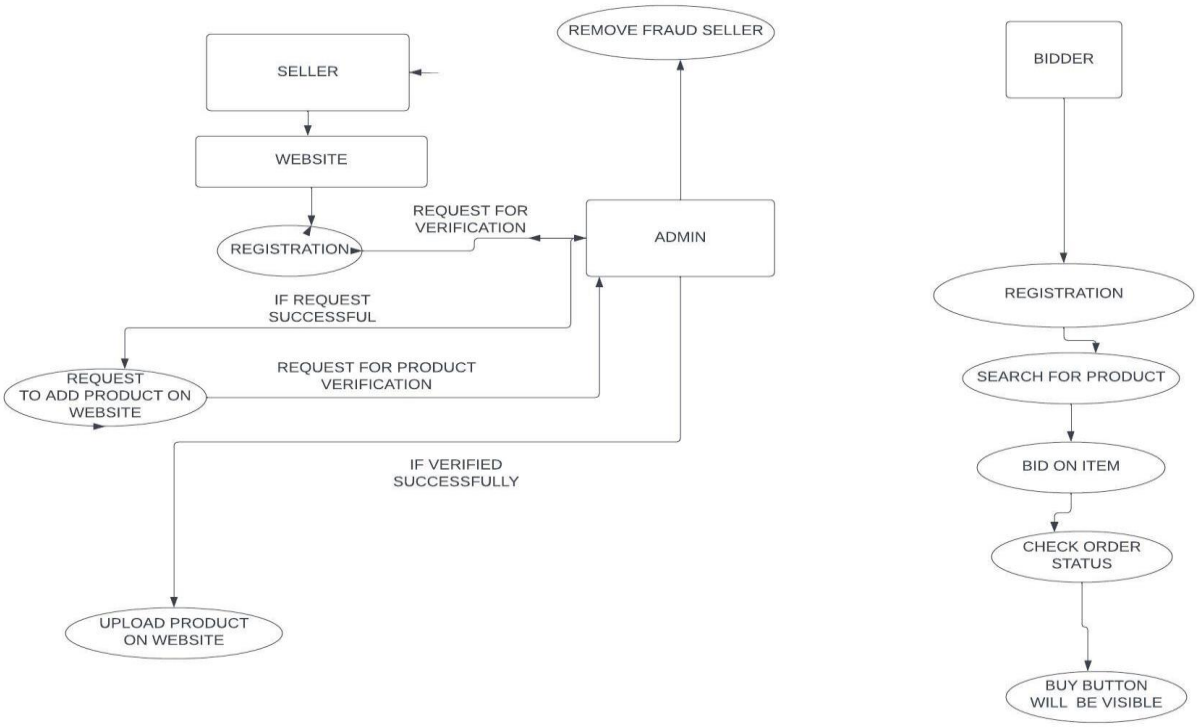
- Firefox browser
- Chrome browser
- Front End Technologies: 1. React.js · 2.Bootstrap · 3. HTML5 · 4. CSS · 5. JavaScript
- Backend Technologies : 1. Java · 2. Spring Boot· 3. Hibernate · 4. MySql·

6 UML Diagram

6.1 DFD:

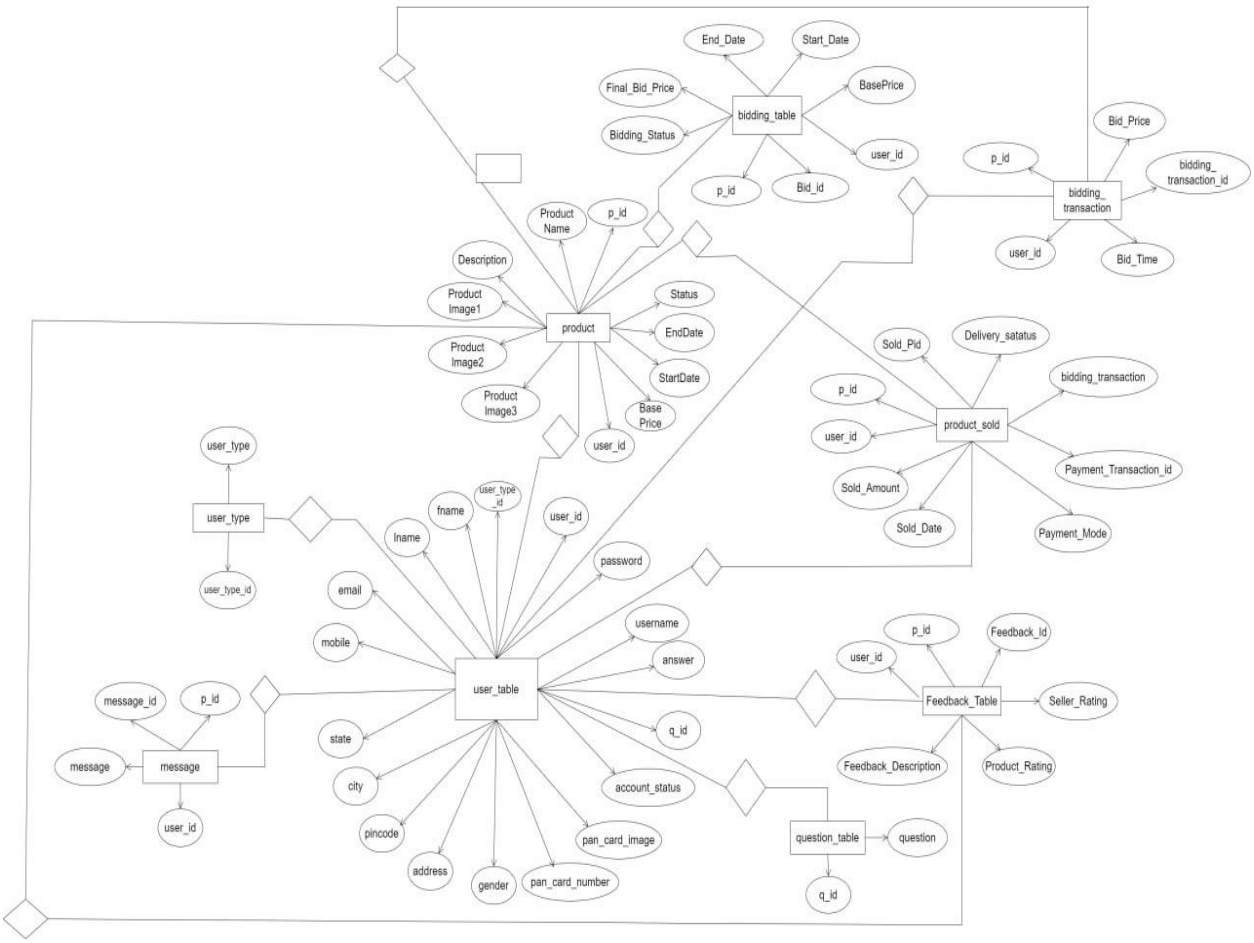


DFD LEVEL 0


SELLER
WEBSITE
REGISTRATION
REQUEST FOR
VERIFICATION
ADMIN
REMOVE FRAUD SELLER
IF REQUEST
SUCCESSFUL
REQUEST
TO ADD PRODUCT ON
WEBSITE
REQUEST FOR PRODUCT
VERIFICATION
IF VERIFIED
SUCCESSFULLY
UPLOAD PRODUCT
ON WEBSITE
BIDDER
REGISTRATION
SEARCH FOR PRODUCT
BID ON ITEM
CHECK ORDER
STATUS
BUY BUTTON
WILL BE VISIBLE

DFD LEVEL 1

6.2 ERD :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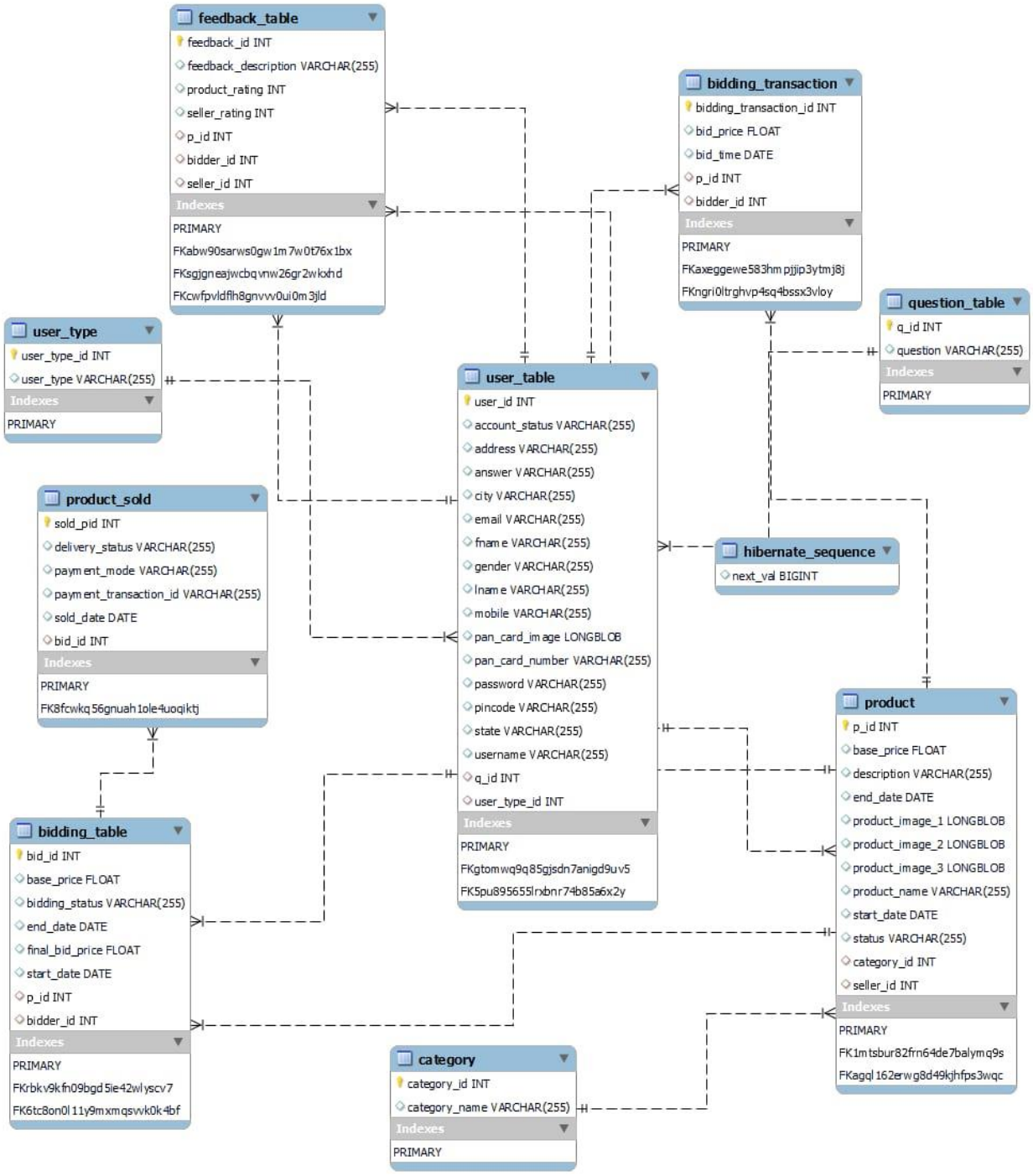
Start_Date
Final_Bid_Price
BasePrice
bidding_table
Bidding_Status
user_id
p_id
Bid_id
Bid_Price
p_id
bidding_ transaction_id
bidding_ transaction
user_id
Bid_Time
Product Name
p_id
Description
Product Image1
Status
product
EndDate
Product Image2
StartDate
Product Image3
Base Price
user_id
Sold_Pid
Delivery_satatus
p_id
bidding_transaction
user_id
product_sold
Payment_Transaction_id
Sold_Amount
Sold_Date
Payment_Mode
user_type
user_type
user_type_id
user_type id
fname
user_id
lname
password
email
mobile
username
answer
user_table
p_id
Feedback_Id
user_id
Feedback_Table
Seller_Rating
message_id
p_id
q_id
state
message
message
Feedback_Description
Product_Rating
city
account_status
user_id
pincode
pan_card_image
question_table
question
address
gender
pan_card_number
q_id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seller_rating INT
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seller_id INT
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bid_time DATE
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bidder_id INT
Indexes
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FKngri0ltrghvp4sq4bssx3vloy
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question VARCHAR(255)
Indexes
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user_type_id INT
user_type VARCHAR(255)
Indexes
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answer VARCHAR(255)
city VARCHAR(255)
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gender VARCHAR(255)
lname VARCHAR(255)
mobile VARCHAR(255)
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pan_card_number VARCHAR(255)
password VARCHAR(255)
pincode VARCHAR(255)
state VARCHAR(255)
username VARCHAR(255)
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user_type_id INT
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base_price FLOAT
description VARCHAR(255)
end_date DATE
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product_image_2 LONGBLOB
product_image_3 LONGBLOB
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start_date DATE
status VARCHAR(255)
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seller_id INT
Indexes
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bid_id INT
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final_bid_price FLOAT
start_date DATE
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bidder_id INT
Indexes
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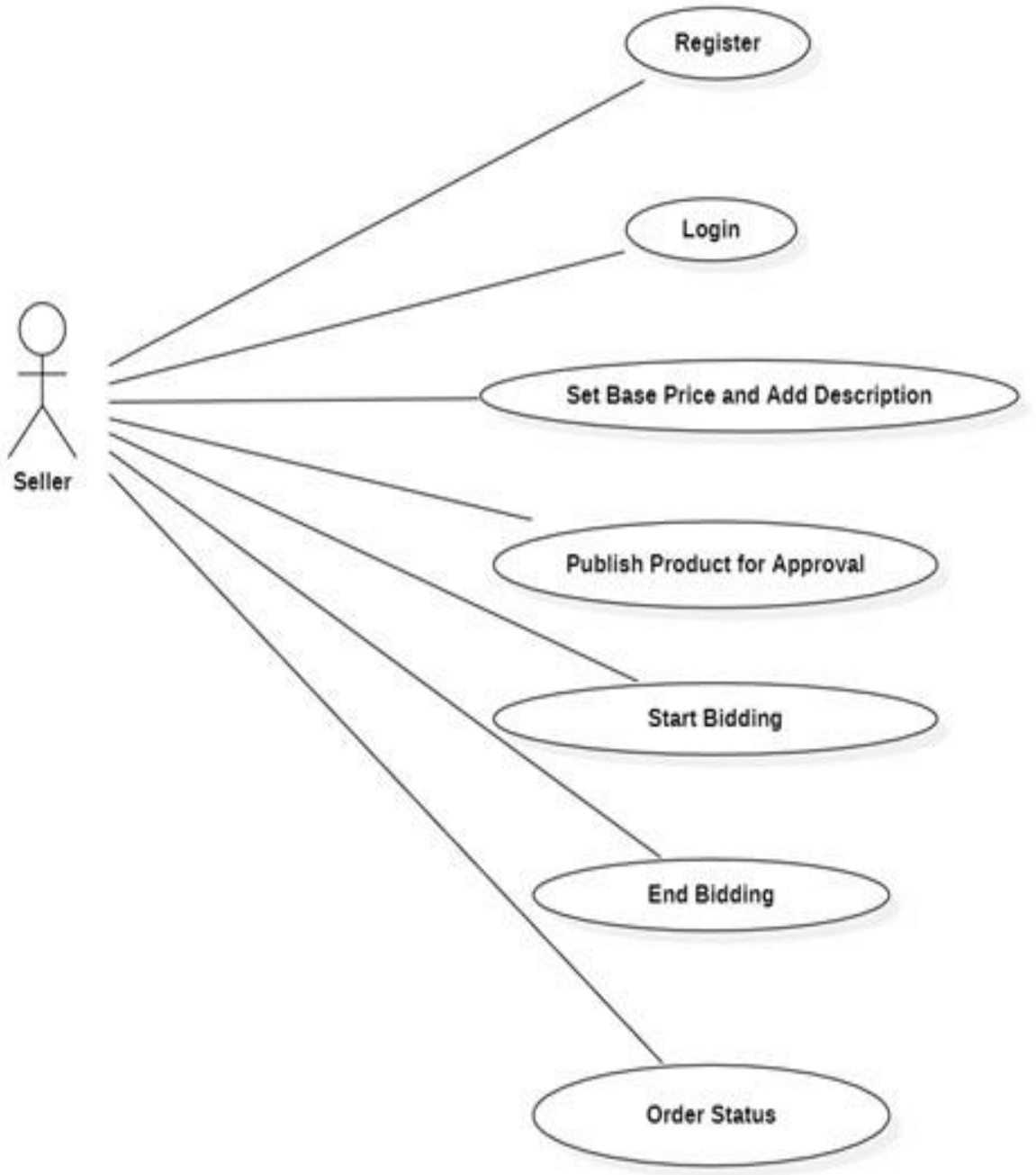
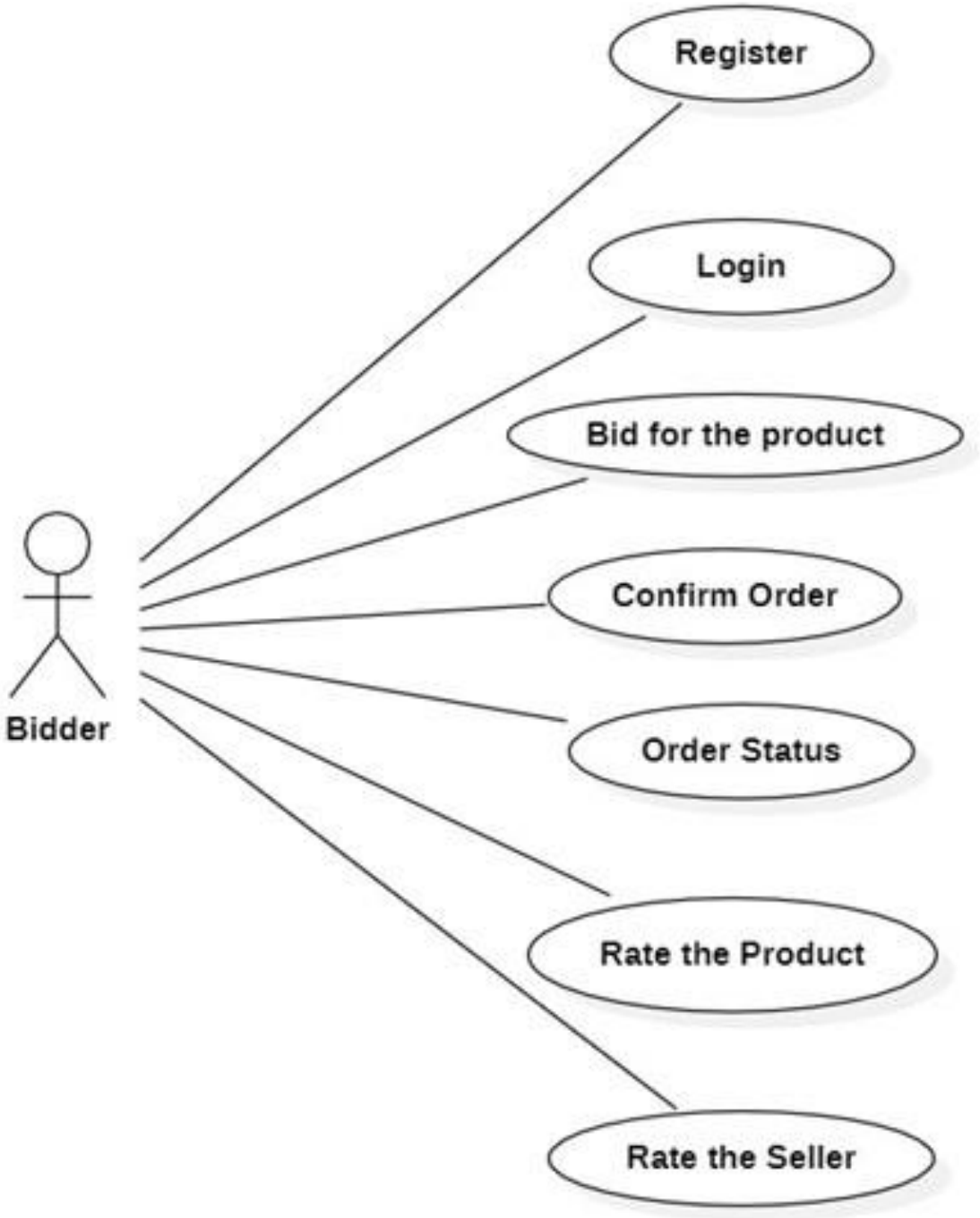
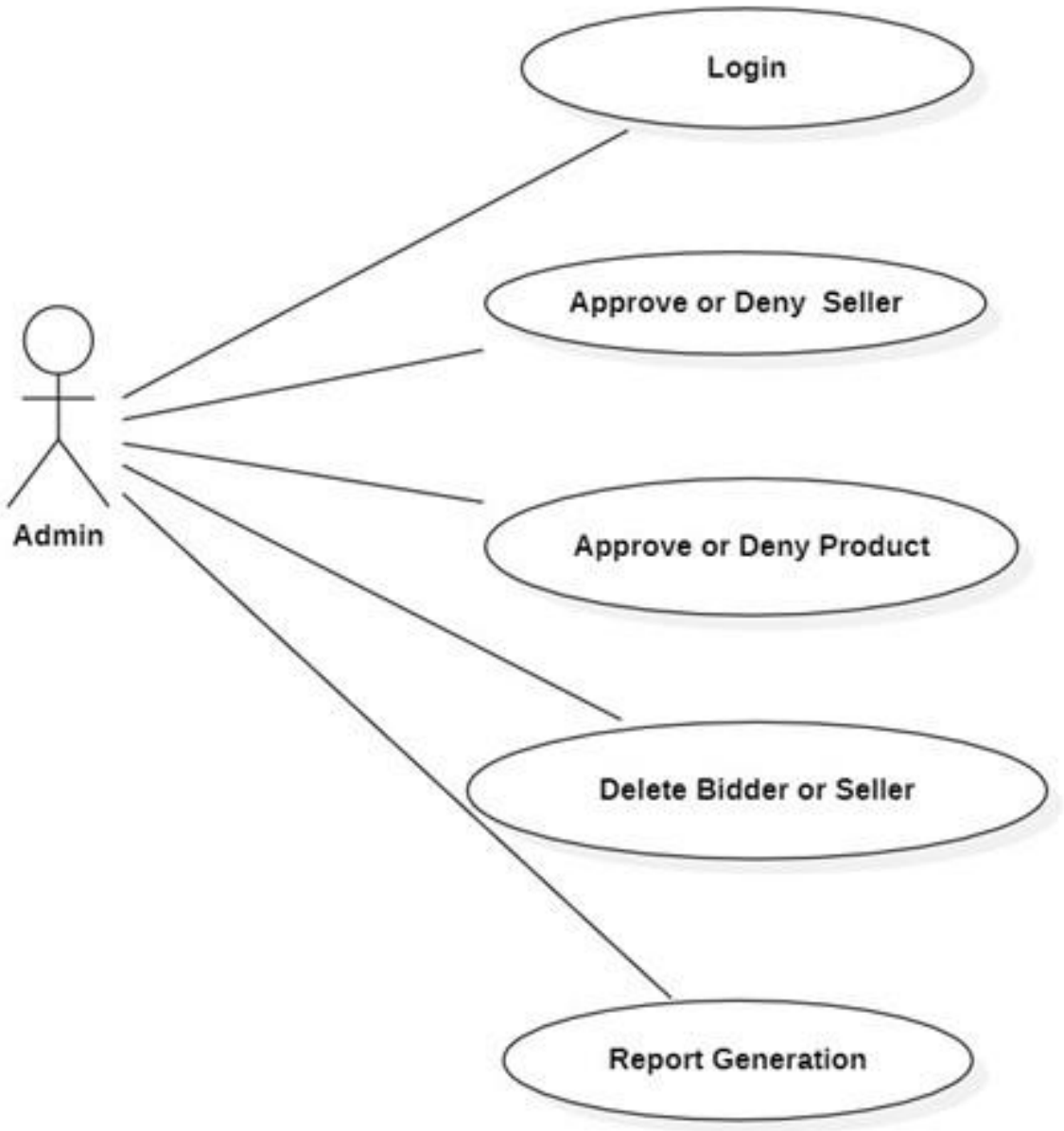
category_name VARCHAR(255)
Indexes
PRIMARY

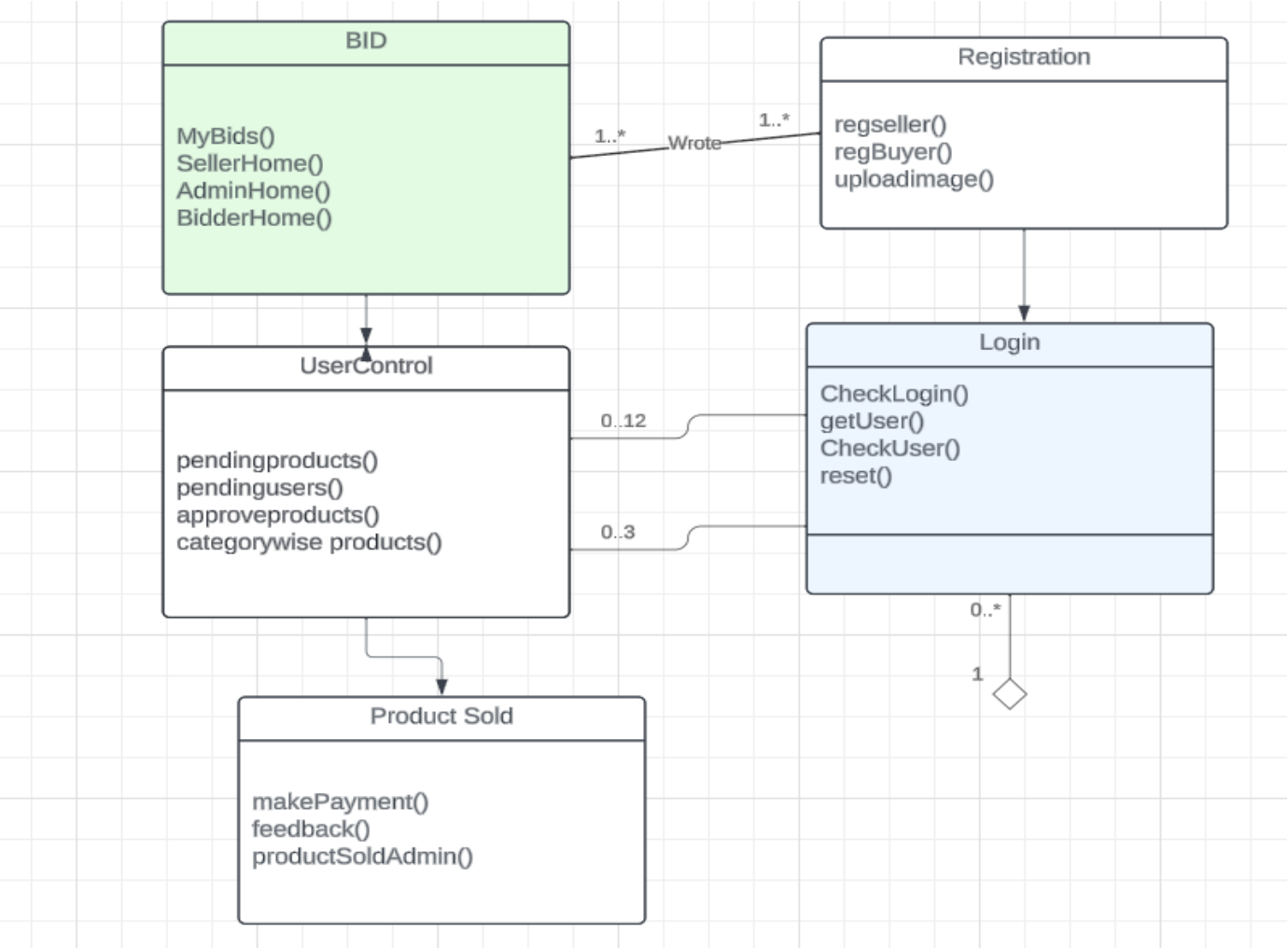
6.3 Use case diagram:




Register
Login
Bid for the product
Confirm Order
Order Status
Rate the Product
Rate the Seller
Bidder


Login
Approve or Deny Seller
Admin
Approve or Deny Product
Delete Bidder or Seller
Report Generation

6.4 Class Diagram:

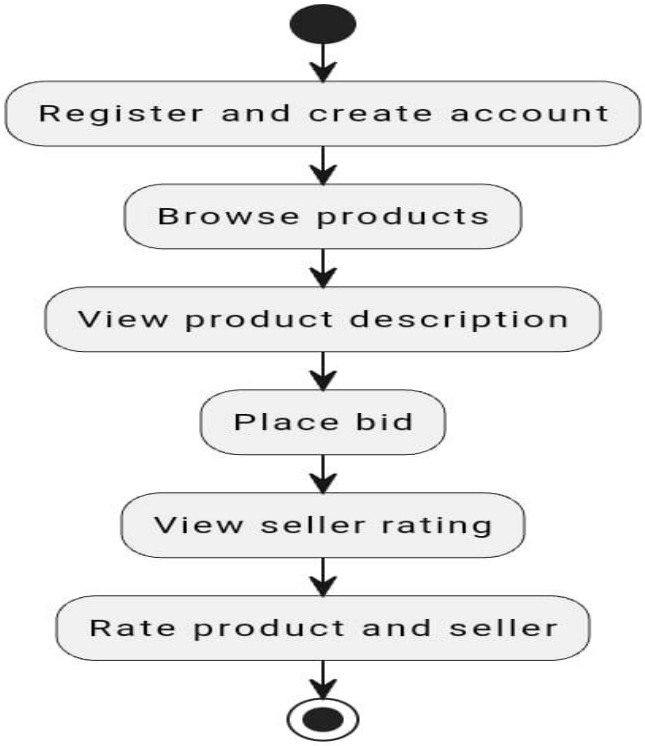


6.5 Sequence diagram:

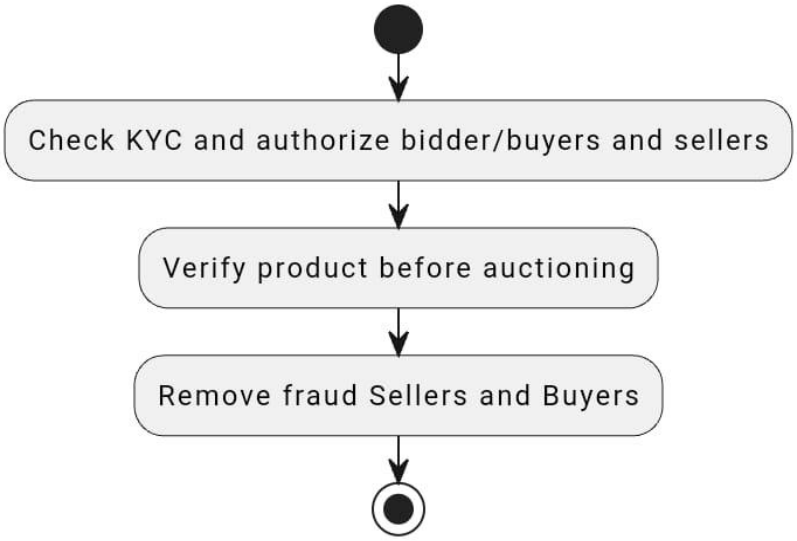
6.6 Activity Diagram:

- **SELLER ACTIVITY DIAGRAM :**

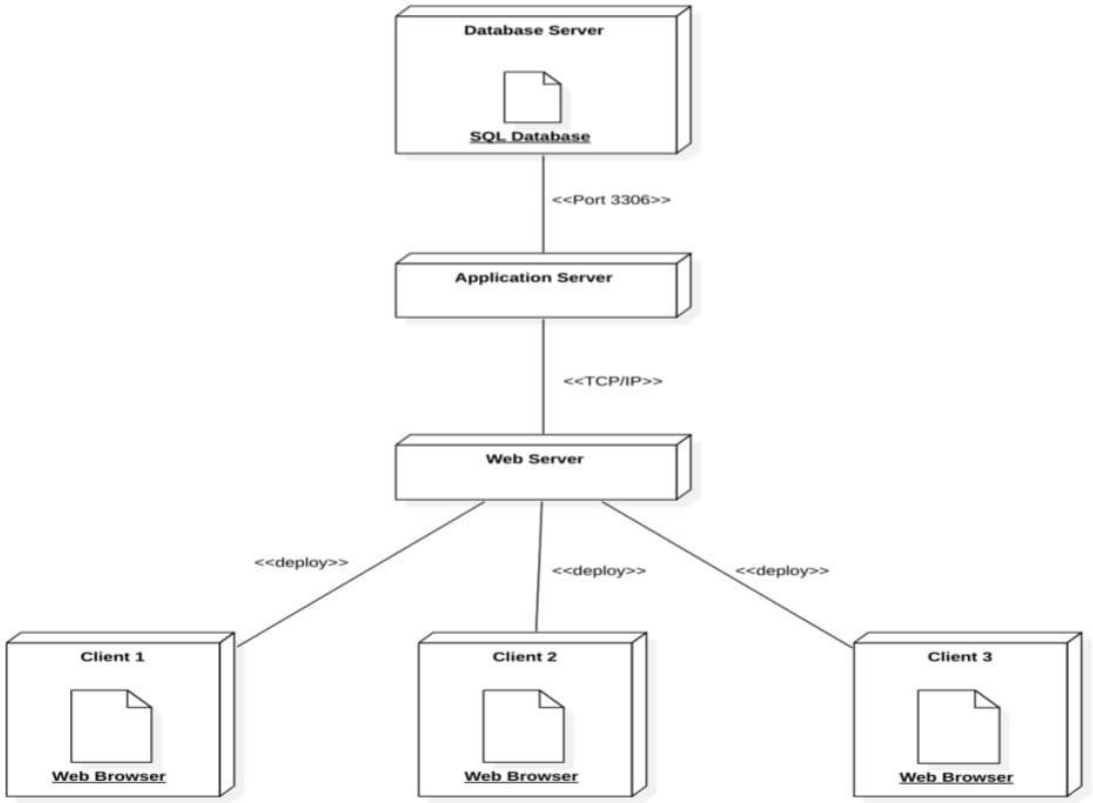
- **BUYER ACTIVITY DIAGRAM:**



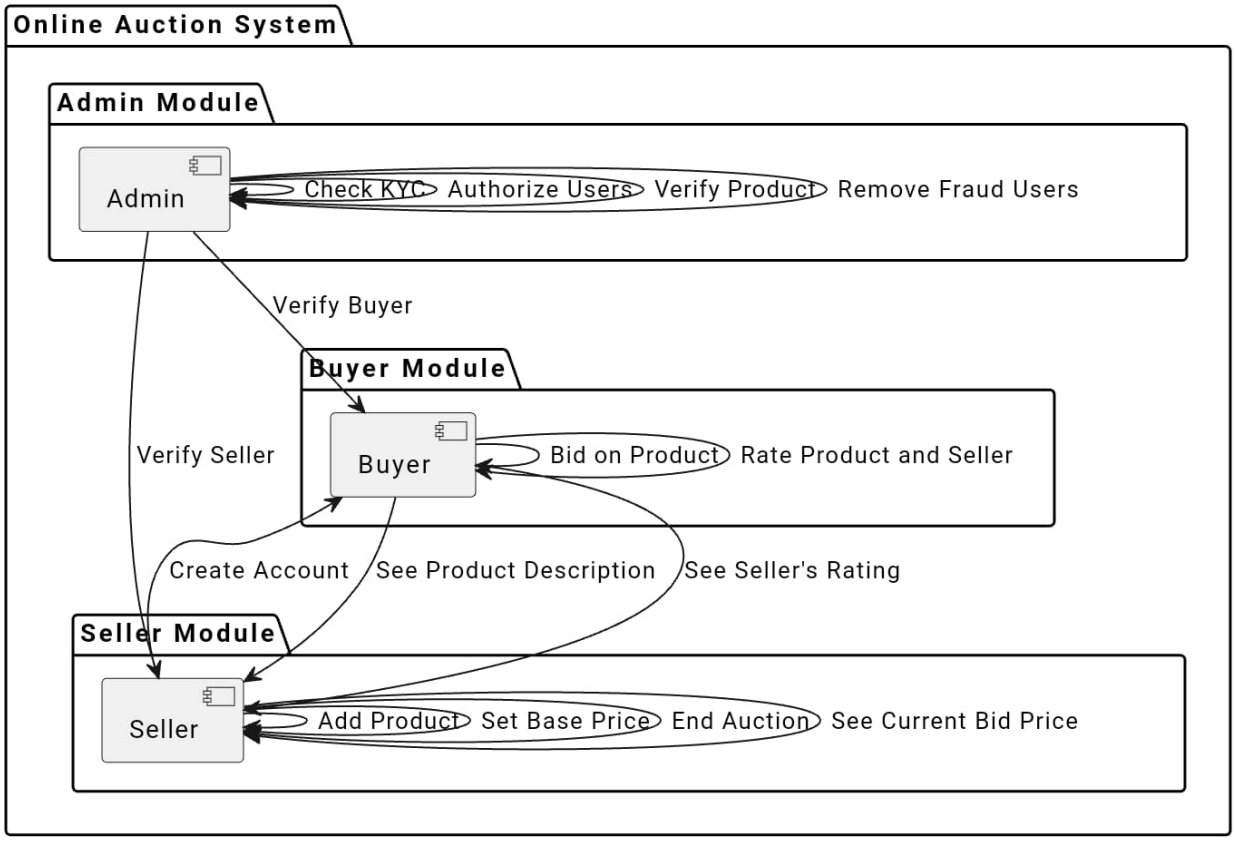
- **ADMIN ACTIVITY DIAGRAM:**



6.7. Deployment diagram:



6.8. System Architecture

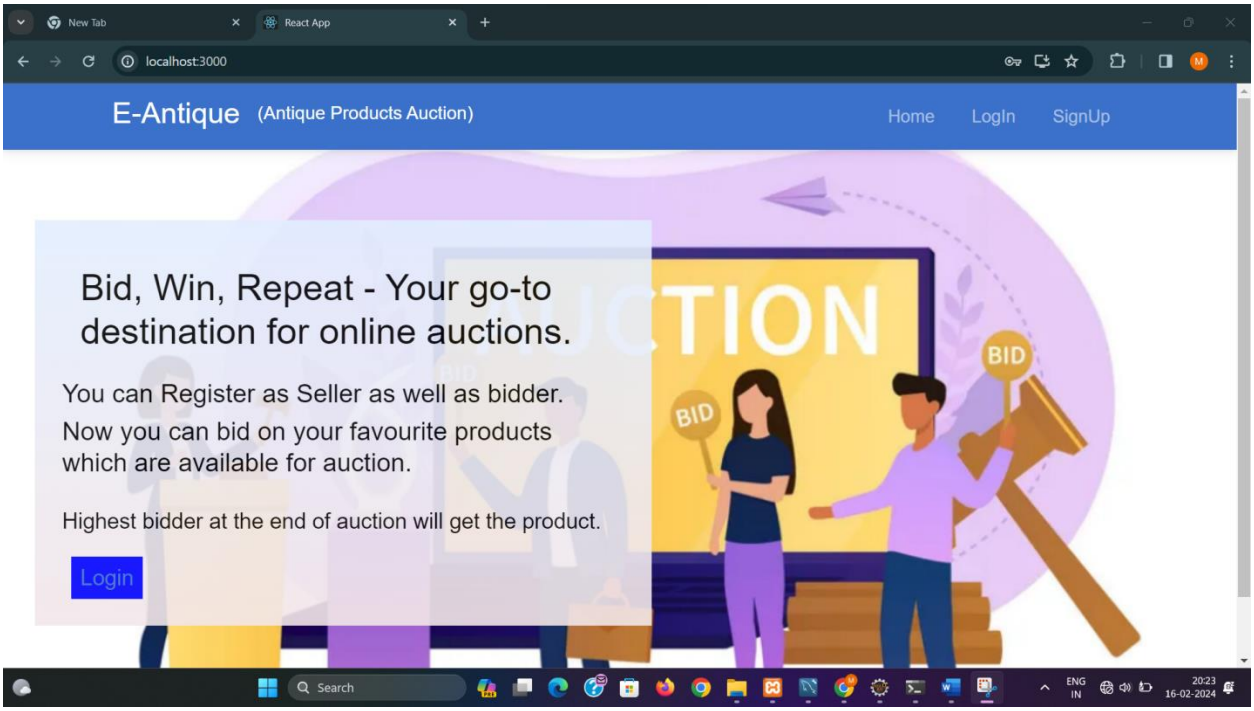


7. Test Cases:

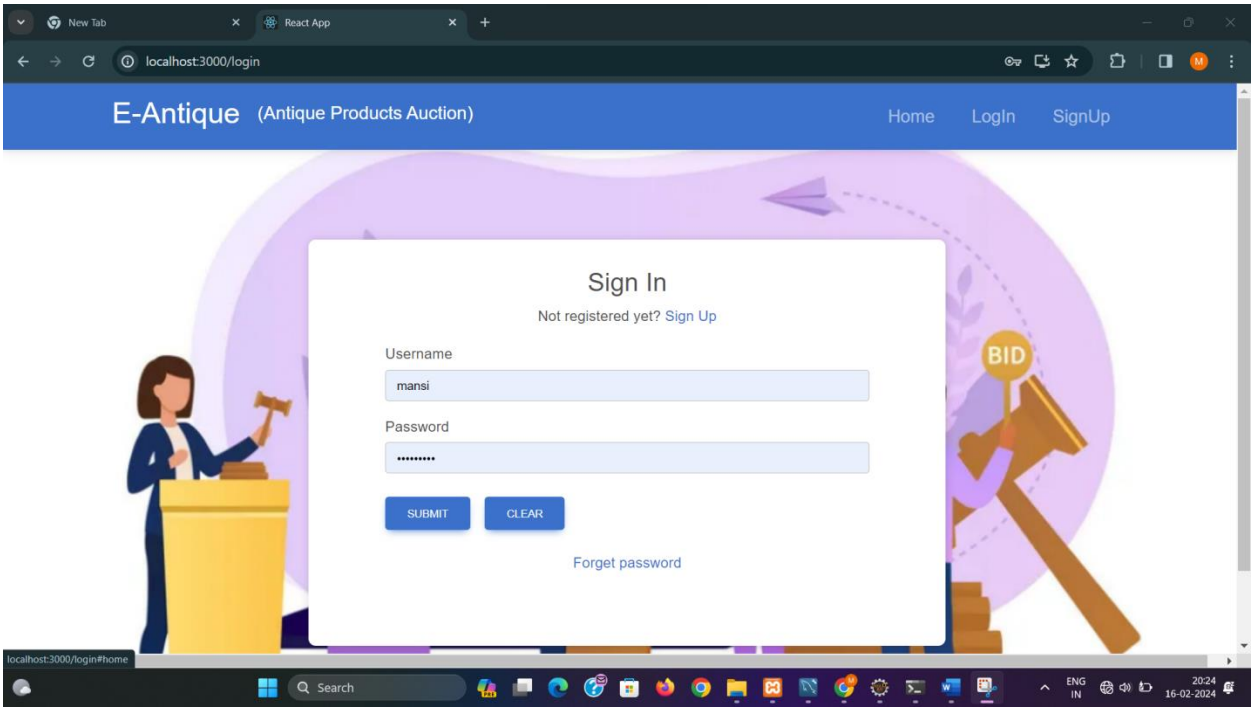
Test Case ID	Test Case Description	Test Steps	Expected Result	Pass/Fail
TC001	User Registration	1. Navigate to the registration page. 2. Enter valid user details. 3. Submit the registration form.	User is successfully registered, and a confirmation message is displayed.	Pass
TC002	User Login	1. Navigate to the login page. 2. Enter valid credentials. 3. Click on the login button.	User is successfully logged in, and the system redirects to the user's dashboard.	Pass
TC003	Create Auction Listing	1. Log in as a seller. 2. Fill ADD FORM	Request is successfully sent to admin	Pass
TC004	See All Ongoing Auction which seller created	1. Log in as a seller. 2. Navigate to an “Ongoing Auction”.	List of ongoing auctions display	Pass
TC005	See all sold products Of seller	1. Log in as a seller 2. Navigate to an “Product Sold ”.	List of all sold products display	Pass
TC006	Test Case ID	Test Case Description	Bid is successfully placed, and the bid amount is updated in real-time.	PASS
TC007	TC001	User Registration	List of all purchased product will be shown	PASS
TC008	TC002	User Login	User is approved	PASS
TC009	TC003	Create Auction Listing	Product is approved	PASS
TC010	TC004	See All Ongoing Auction which seller created	USER IS Logout	PASS

8 Screenshots:

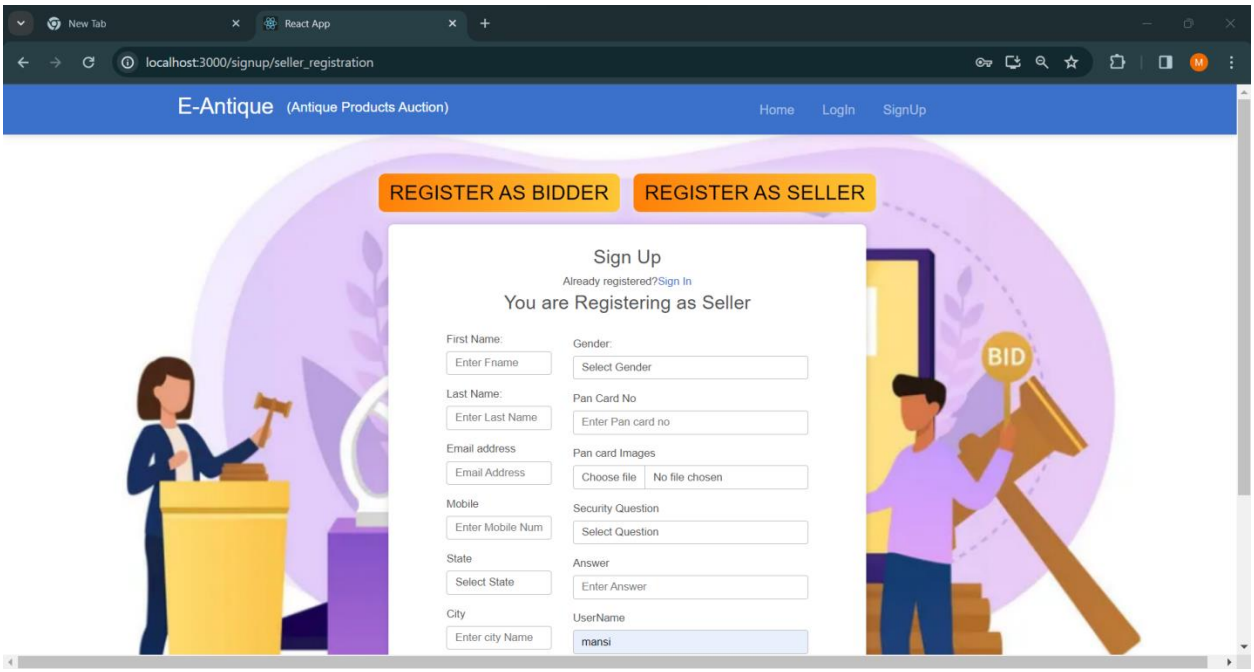
8.1 Home Page:



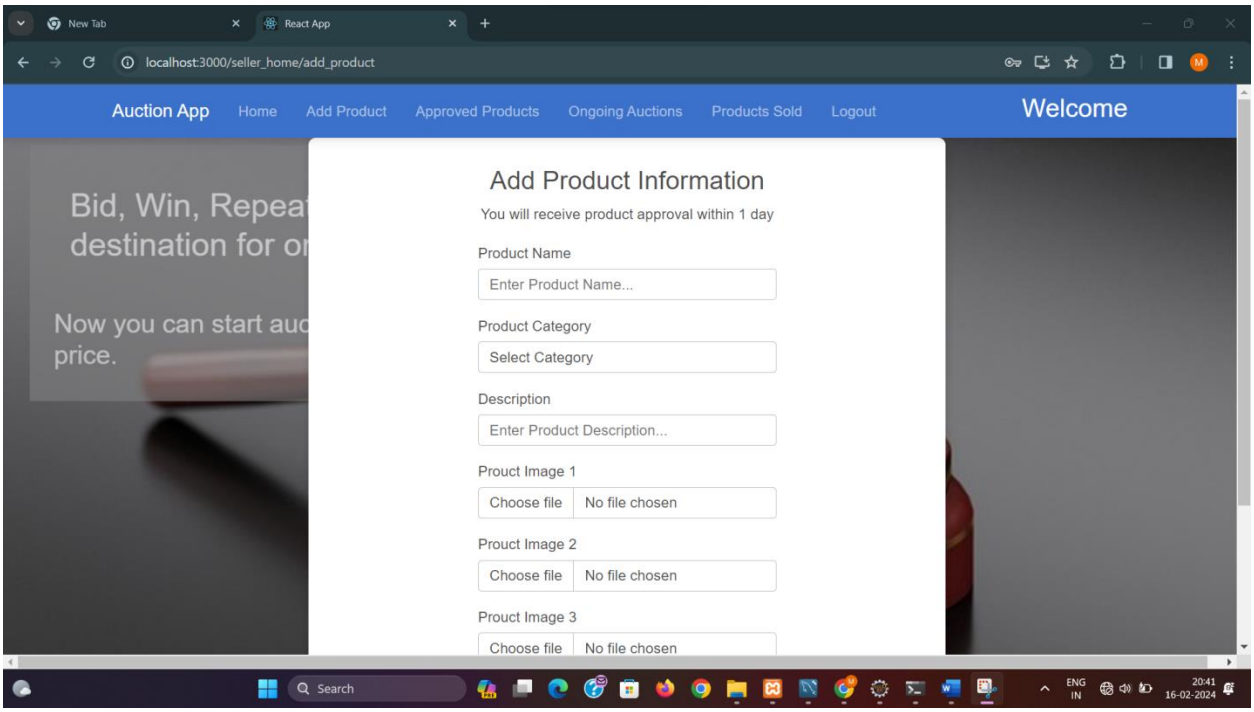
8.2 Sign In Page:



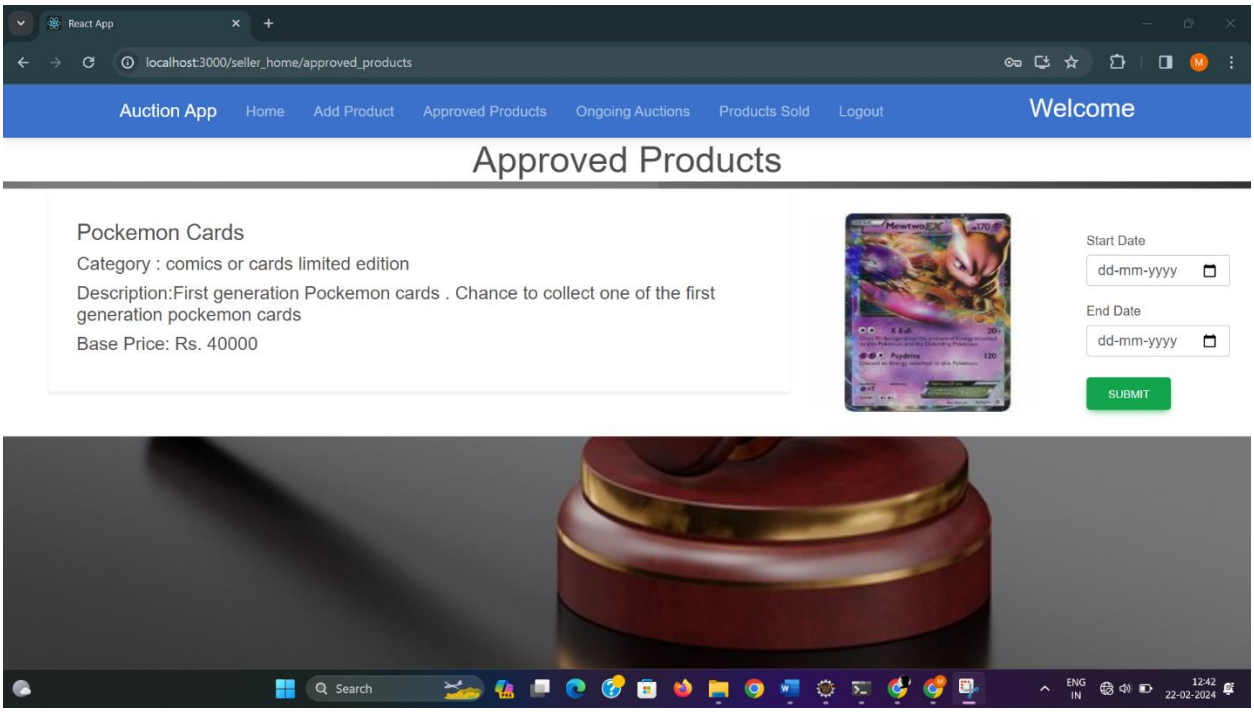
8.3 Registration Page:



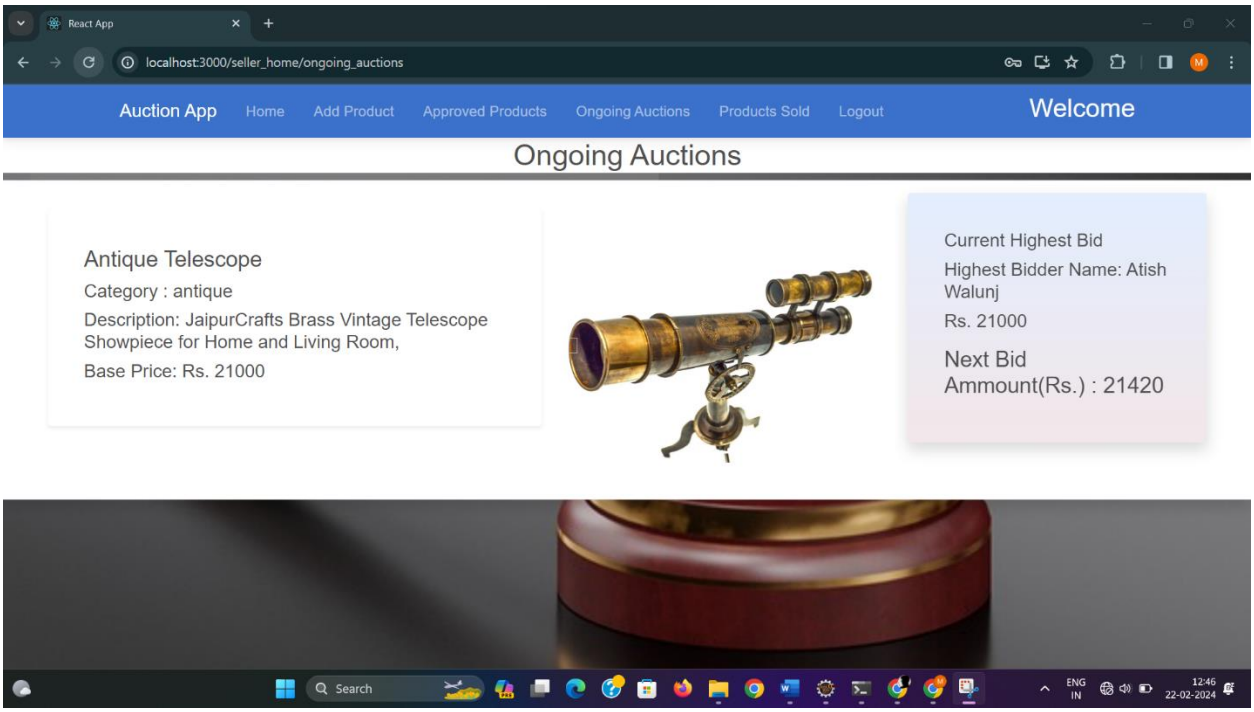
8.4 Seller Add Product Page



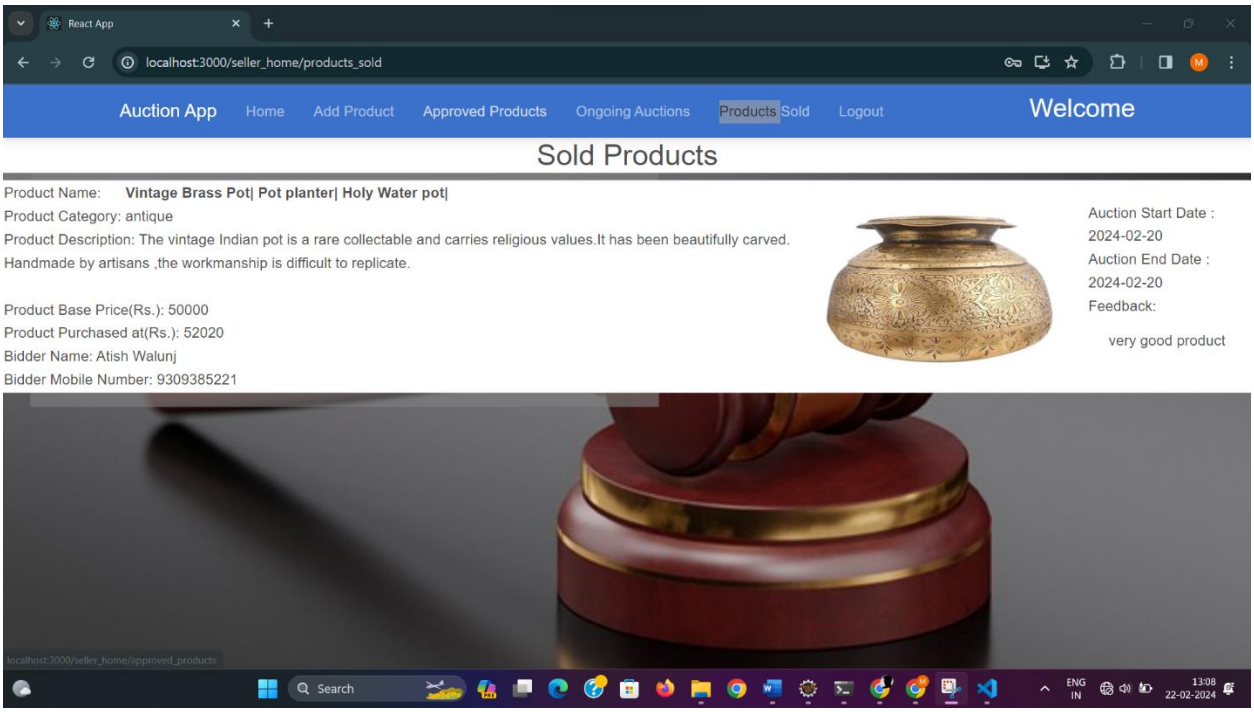
8.5 Seller Approve Product Page:



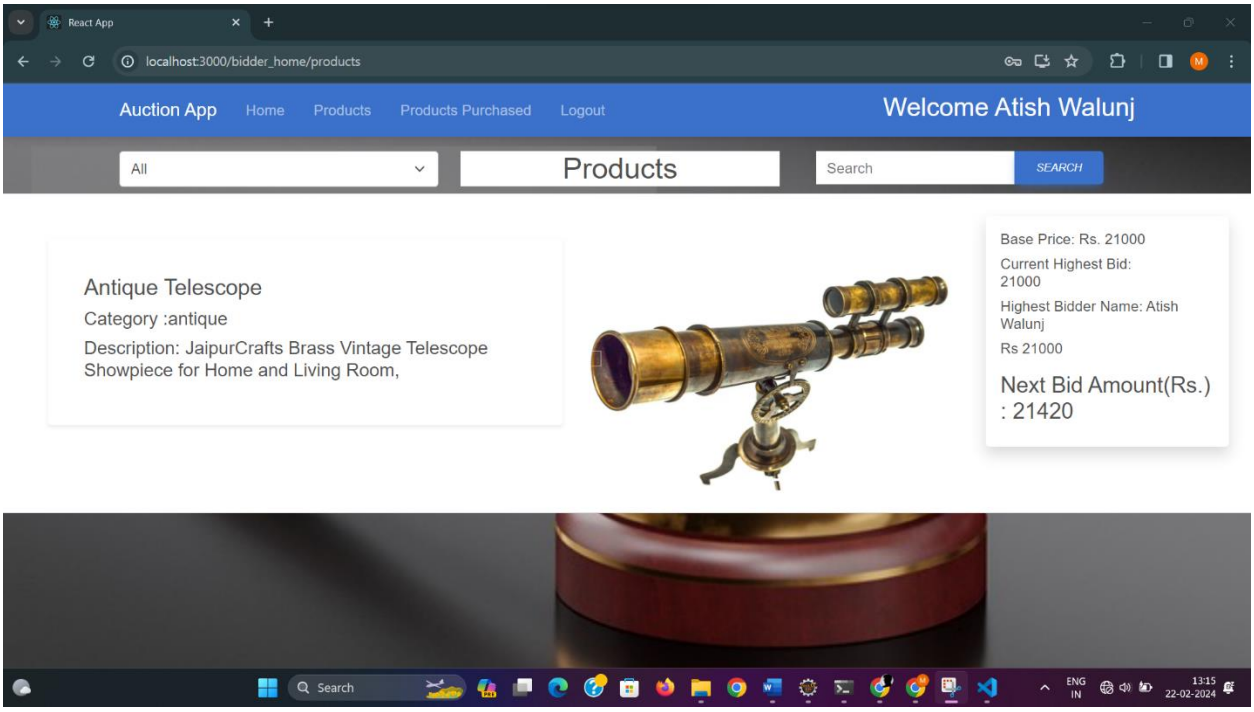
8.6 Seller Ongoing Auctions Page:

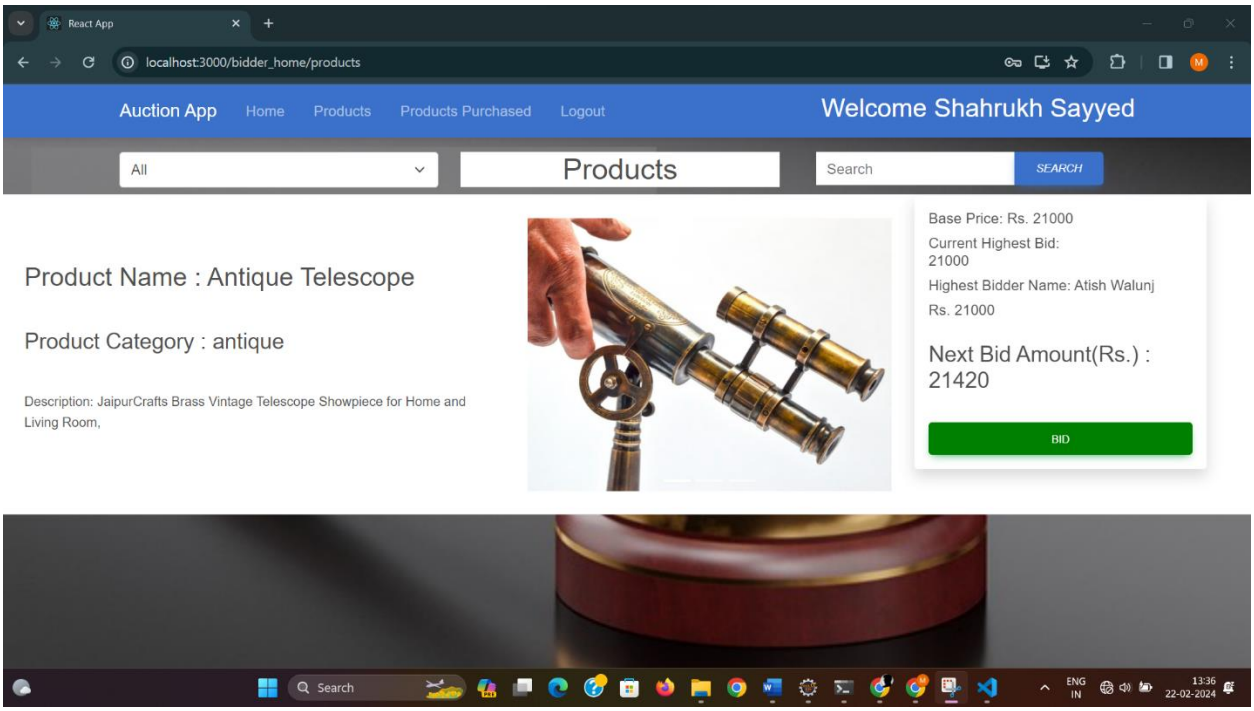


8.7 Seller Product Sold Page:

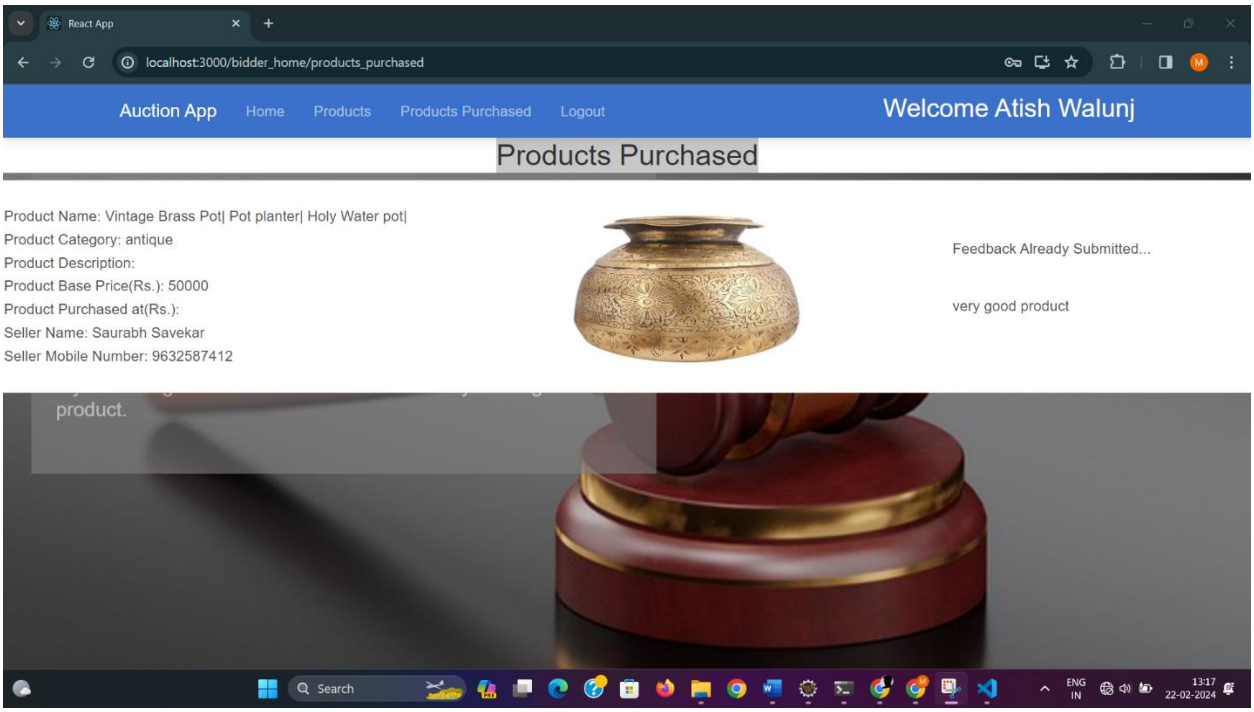


8.8 Bidder Products Page:

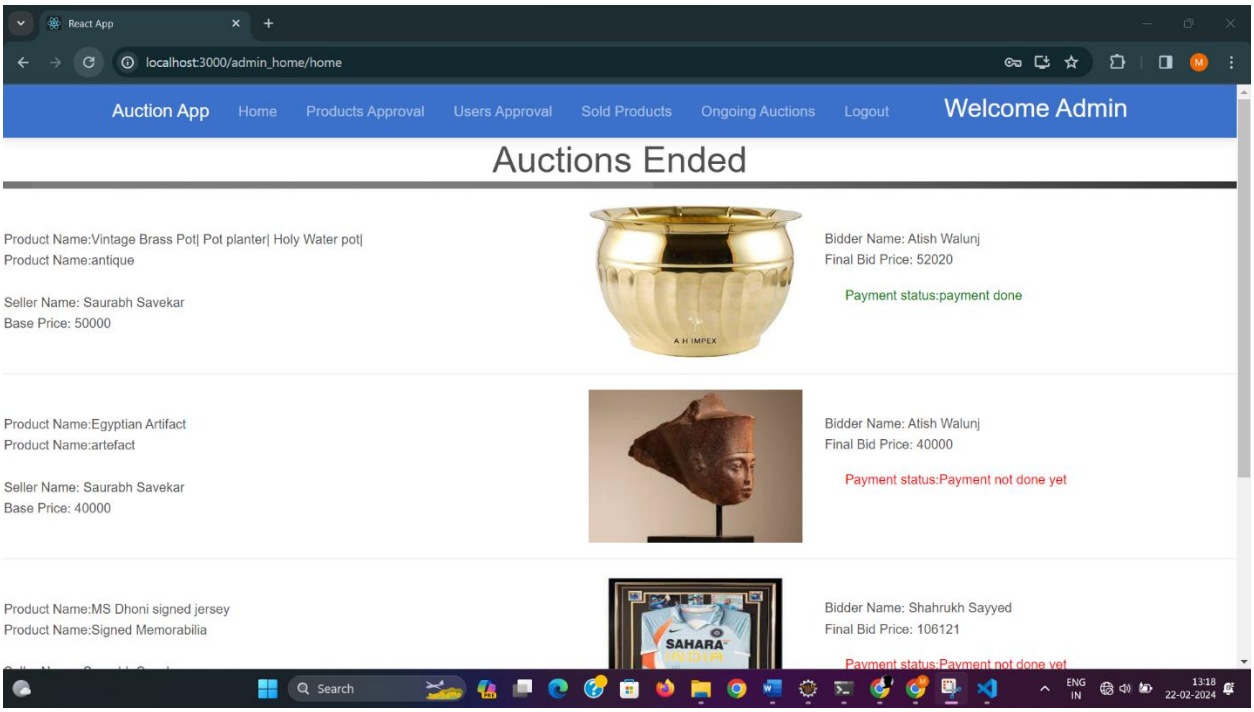




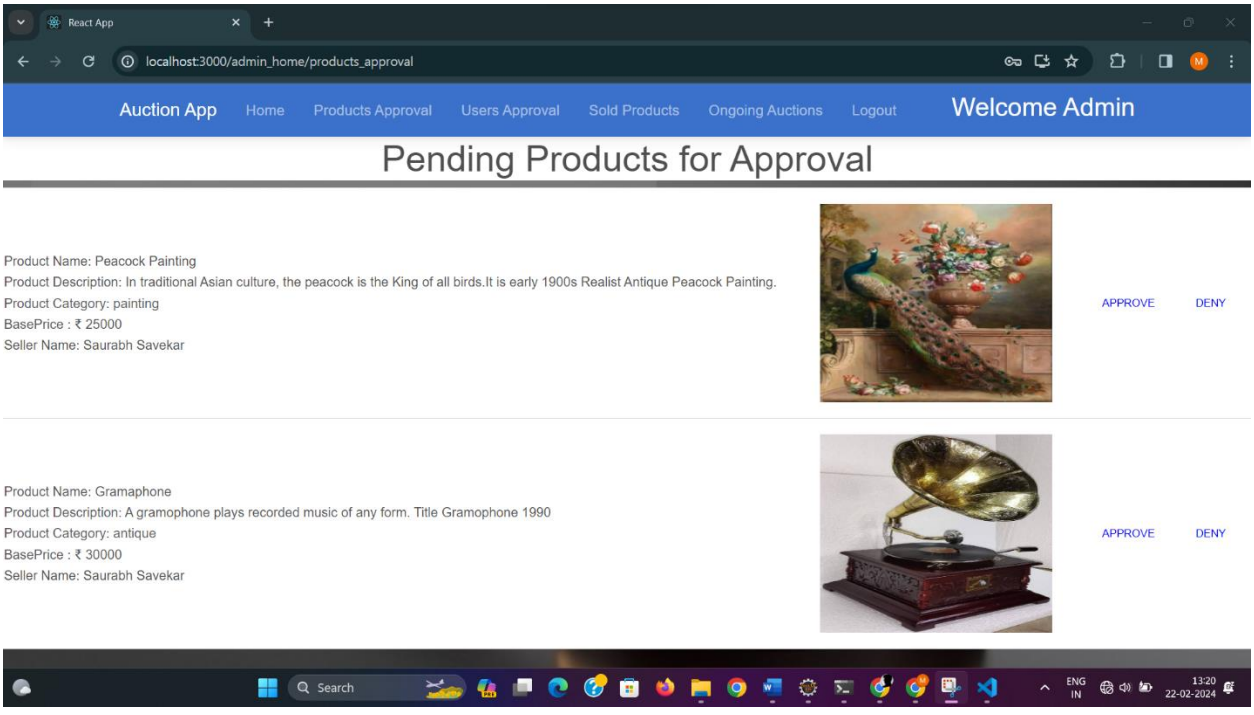
8.9 Bidder Products Purchase Page:



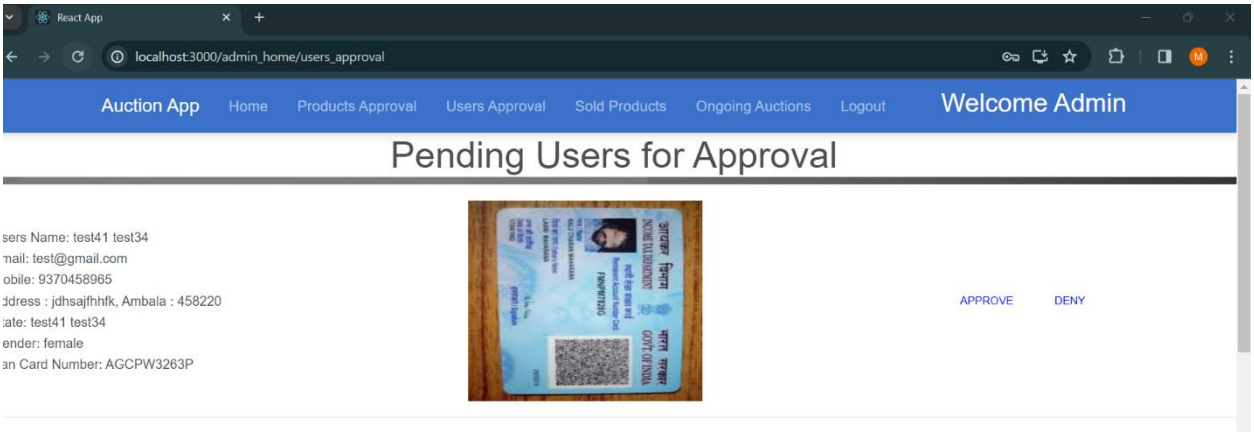
8.10 Admin Home Page:



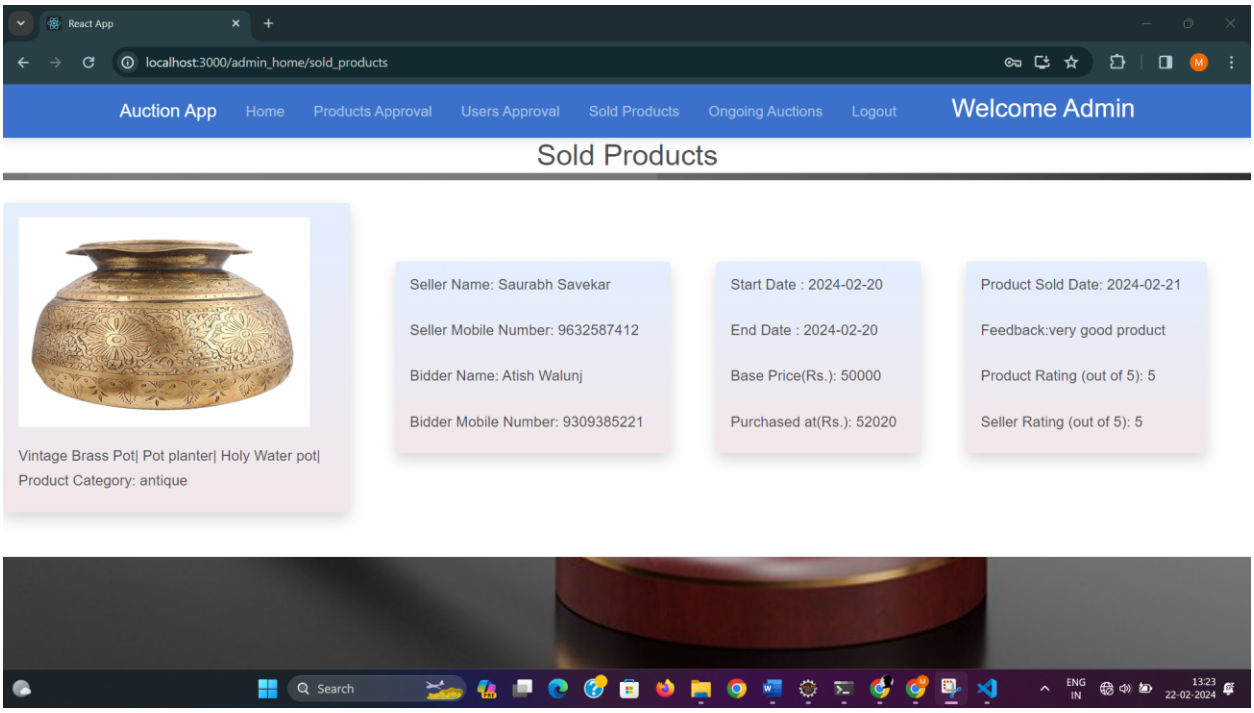
8.11 Admin -Pending Products For Approval Page



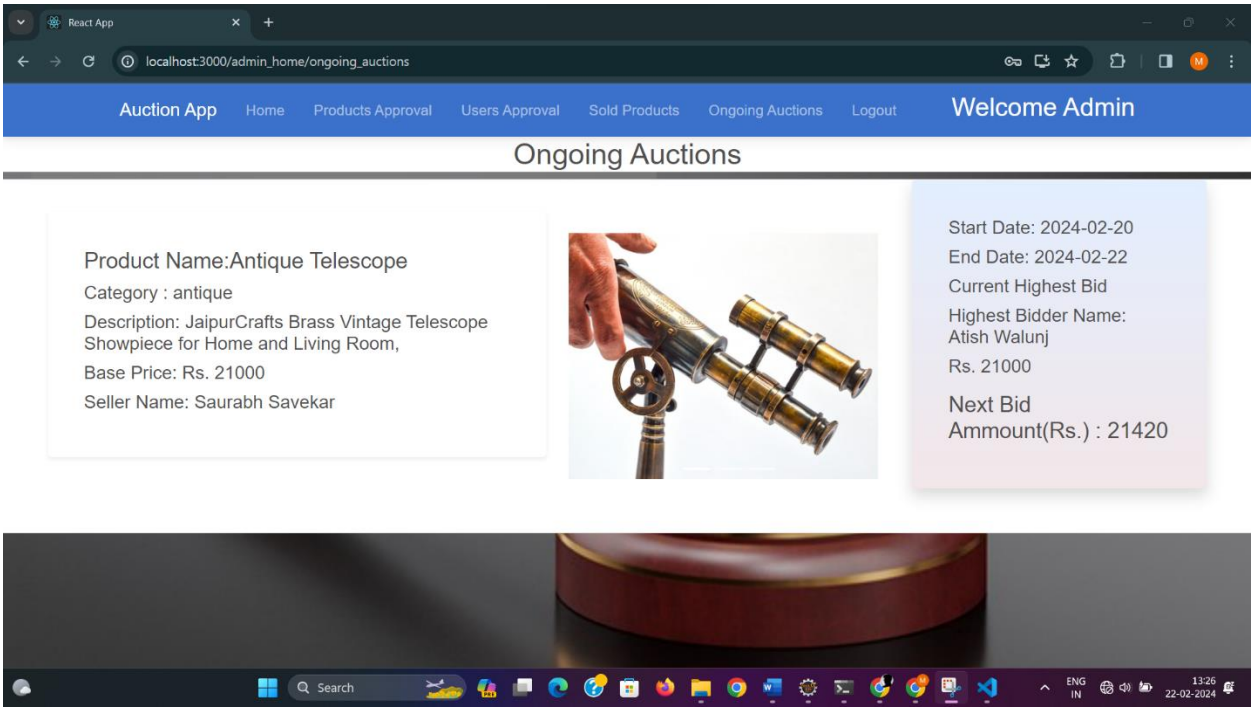
8.12 Admin -Pending Users For Approval Page



8.13 Admin – Sold Products Page



8.14 Admin – Ongoing Auction Page



9. References:

1. https://www.ebay.com
2. https://www.ebid.net
3. https://salasarauction.com
4. 'People no longer go into antiques shops'- https://www.bbc.com/news/business-45186811
5. Github Link: aksh-200/Online-auction-system (github.com)
6. React js, CSS, Html, Bootstrap- Prachi Godbole Notes
7. Spring Boot – Kishori Khadilkar Notes
8. MySql- Saleel Kulkarni Notes