



Darshan University

A Project Report on

“Auction Management System”

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B. Tech, Semester – IV

Computer Science & Engineering Department

Submitted By

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Internal Guide

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DECLARATION

We hereby declare that the SRS, submitted along with the **Software Engineering (2301CS405)** for entitled “**Auction Management System**” submitted in partial fulfilment for the Semester-5 of **Bachelor Technology (B. Tech)** in **Computer Science and Engineering (CSE)** Department to Darshan University, Rajkot, is a record of the work carried out at **Darshan University, Rajkot** under the supervision of R. B. Gondaliya and that no part of any of report has been directly copied from any students’ reports, without providing due reference.

Dhruv R. Pithwa

Student’s Signature

Date: _____



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CERTIFICATE

This is to certify that the SRS on “**Auction Management System**” has been satisfactorily prepared by **Dhruv R. Pithwa (24010101675)** under my guidance in the fulfillment of the course **Software Engineering (2301CS405)** work during the academic year 2024-2025.

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Thus, in conclusion to the above said, I once again thank the faculties and members of **Darshan University** for their valuable support in completion of the project.

Thanking You

Dhruv R. Pithwa

ABSTRACT

This Software Requirements Specification outlines the development of an internet-based Auction Management System designed to streamline online auctions. The system supports multiple user roles—Bidders, Sellers, Guests, Auction Managers, Customer Support, and Drivers—offering functionalities such as auction creation, bidding, real-time updates, dispute resolution, and delivery tracking. Key features include secure account management with two-factor authentication, wallet integration, and intuitive auction browsing with filters. The system ensures usability, accuracy, 24/7 availability, and maintainability, catering to an efficient and transparent online auction marketplace.

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1 Introduction

1.1 Product perspective

This project aims to develop an internet-based auction management system that replaces traditional manual auction processes with a digital platform. The system enables users to participate in auctions remotely, manage their accounts, and track transactions and deliveries seamlessly. It is a multi-user application designed to support various roles, including Buyers (Bidders), Sellers, Guests, Auction Managers, Customer Support, and Drivers. The system handles core auction-related functions such as auction creation, bidding, approval, dispute resolution, and delivery tracking. It is intended to cater to the needs of an online auction marketplace, ensuring efficiency, transparency, and user satisfaction.

1.2 Product features

1.2.1 User Roles

The system supports six distinct user types, each with specific functionalities:

- **Bidder:** Buyers who participate in auctions by placing bids.
- **Member:** who will be accessing the library.
- **Guest:** who will request for membership.
- **Auction Manager:** Administrators who oversee auction operations.
- **Customer Support:** Staff who assist users with issues.
- **Driver:** Personnel responsible for delivering auctioned items.

1.2.2 Features for bidder

- Browse ongoing auctions with filters (e.g., category, price, rating).
- View auction listings, including item photos, names, descriptions, and current bid prices.
- Place bids higher than the current bid amount.
- Increase bid amounts on active auctions.
- Retrieve (cancel) a bid within 30 seconds of placing it.
- Receive real-time notifications about auction updates and outcomes.
- Bid on multiple auctions simultaneously.
- Manage a wallet for deposits, withdrawals, and transaction history.
- Track delivery status of won items.

1.2.3 Features for Seller

- Create auction listings with titles, descriptions, and item details.
- Upload photos of items for auction.
- Set initial bid prices for items.
- Define auction duration using a start and end timestamp.
- Publish auctions for bidders to participate.
- Manage a wallet for tracking earnings and transactions.

1.2.4 Shared Features for Members (Bidders and Sellers)

- Sign up with email or phone, verified via email/SMS.
- Log in with validated credentials; reset passwords via email/SMS.
- Enable two-factor authentication (2FA) for enhanced security.
- Set up profiles with name, profile picture, interests, and role (buyer/seller).

1.2.5 Features for Guest

- Browse ongoing and past auctions without logging in.
- Search auctions using filters (e.g., category, price, rating).
- Receive prompts to sign up for full access (bidding or selling).

1.2.6 Features for Auction Manager

- Review and approve seller auction submissions.
- Monitor auctions and pause or stop them if necessary.
- Access a dashboard with auction activity and trends.
- Manage user accounts (e.g., warn or block buyers/sellers).
- Resolve disputes between buyers and sellers.

1.2.7 Features for Customer Support

- Respond to user help requests and troubleshoot issues.
- Provide real-time assistance via live chat.
- Track and resolve support tickets.
- Maintain a FAQ section with common solutions.

1.2.8 Features for Driver

- View delivery details (e.g., item, destination).
- Access optimized delivery routes.
- Update delivery status (e.g., picked up, in transit, delivered).
- Contact buyers or sellers directly if needed.

1.3 Functional Requirement

1.3.1 Bidder

- **Place Bid:** Submit a bid amount exceeding the current highest bid.
- **Increase Bid:** Adjust an existing bid to a higher amount.
- **Retrieve Bid:** Cancel a bid within 30 seconds of placement.
- **Auction Updates:** Receive real-time notifications about bid status and auction results.
- **Multi-Bidding:** Place bids on multiple auctions concurrently.
- **Delivery Tracking:** Monitor the status of item deliveries post-auction.

1.3.2 Seller

- **Set Auction Details:** Input auction title, description, and item specifics.
- **Upload Item Photo:** Add an image to the auction listing.
- **Set Item Price:** Define the starting bid amount.
- **Set Time:** Specify auction duration with start and end timestamps.
- **Publish Auction:** Launch the auction for bidding.

1.3.3 Member (Bidder and Seller Shared Functions)

- **Account Creation:** Register using email or phone, confirmed via email/SMS.
- **Login:** Authenticate with credentials, reset password via email/SMS.
- **Two-Factor Authentication:** Activate 2FA for secure access.
- **Profile Setup:** Configure profile with name, photo, interests, and role.
- **Wallet Management:** Link a bank account, create a wallet, deposit/withdraw funds, and view transaction history.
- **Auction Browsing:** Explore auctions with filters (category, price, rating).
- **Auction Listing:** View detailed auction information (photo, name, description, bid price).

1.3.4 Guest

- **Browse Auctions:** View ongoing and past auctions without authentication.
- **Search & Filter:** Search auctions by category, price, or rating.
- **Sign Up Prompt:** Display registration prompts to encourage account creation.

1.3.5 Auction Manager

- **Approve Auctions:** Validate and approve seller-submitted auctions.
- **Monitor Auctions:** Pause or terminate auctions if issues arise.
- **Track Data:** Access auction statistics and trends via a dashboard.
- **Manage Users:** Issue warnings or block users for policy violations.
- **Handle Disputes:** Mediate and resolve conflicts between bidders and sellers.

1.3.6 Customer Support

- **Help Requests:** Address user inquiries and technical issues.
- **Chat Support:** Provide live chat assistance.
- **Track Issues:** Manage support tickets through resolution.
- **FAQs:** Develop and update a knowledge base of common questions.

1.3.7 Driver

- **Delivery Details:** Retrieve details of items and delivery locations.
- **Routes Made Easy:** Access optimized delivery routes.
- **Update Status:** Log delivery progress (picked up, in transit, delivered).
- **Contact Info:** Obtain contact details for buyers/sellers.

1.4 Non-Functional Requirement

1.4.1 Usability:

- The user interface must be intuitive and user-friendly, requiring no specialized training.
- Support for multiple languages can be implemented based on user demographics.

1.4.2 Accuracy:

- Auction data (e.g., bid amounts, transaction records) and delivery statuses must be accurate, consistent, and reliable.
- Real-time updates must reflect the correct auction state without delays.

1.4.3 Availability:

- The system should be available 24/7 to support online auctions across time zones.
- Downtime recovery should occur within 30 minutes or less.
- Responses to user actions (e.g., bid placement, page loading) must occur within two seconds.

1.4.4 Maintainability:

- The software must be easily maintainable, allowing for quick updates or feature additions.
- It should be portable, adaptable to various devices (e.g., web, mobile) and platforms with minimal reconfiguration.

2 Design and Implementation Constraints

2.1 Use case diagram

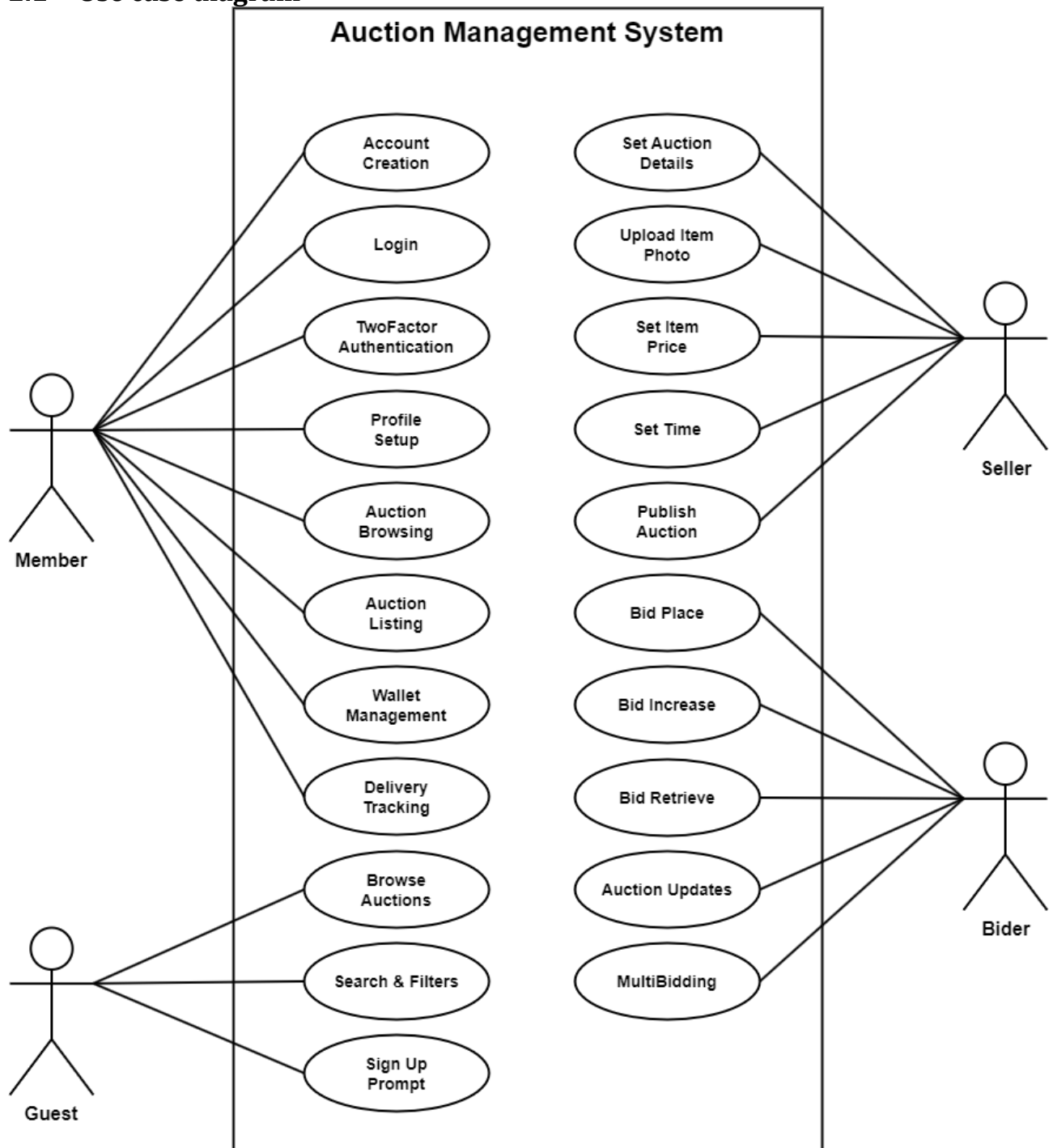


Figure 2.1-1 Use case diagram for Auction Management System

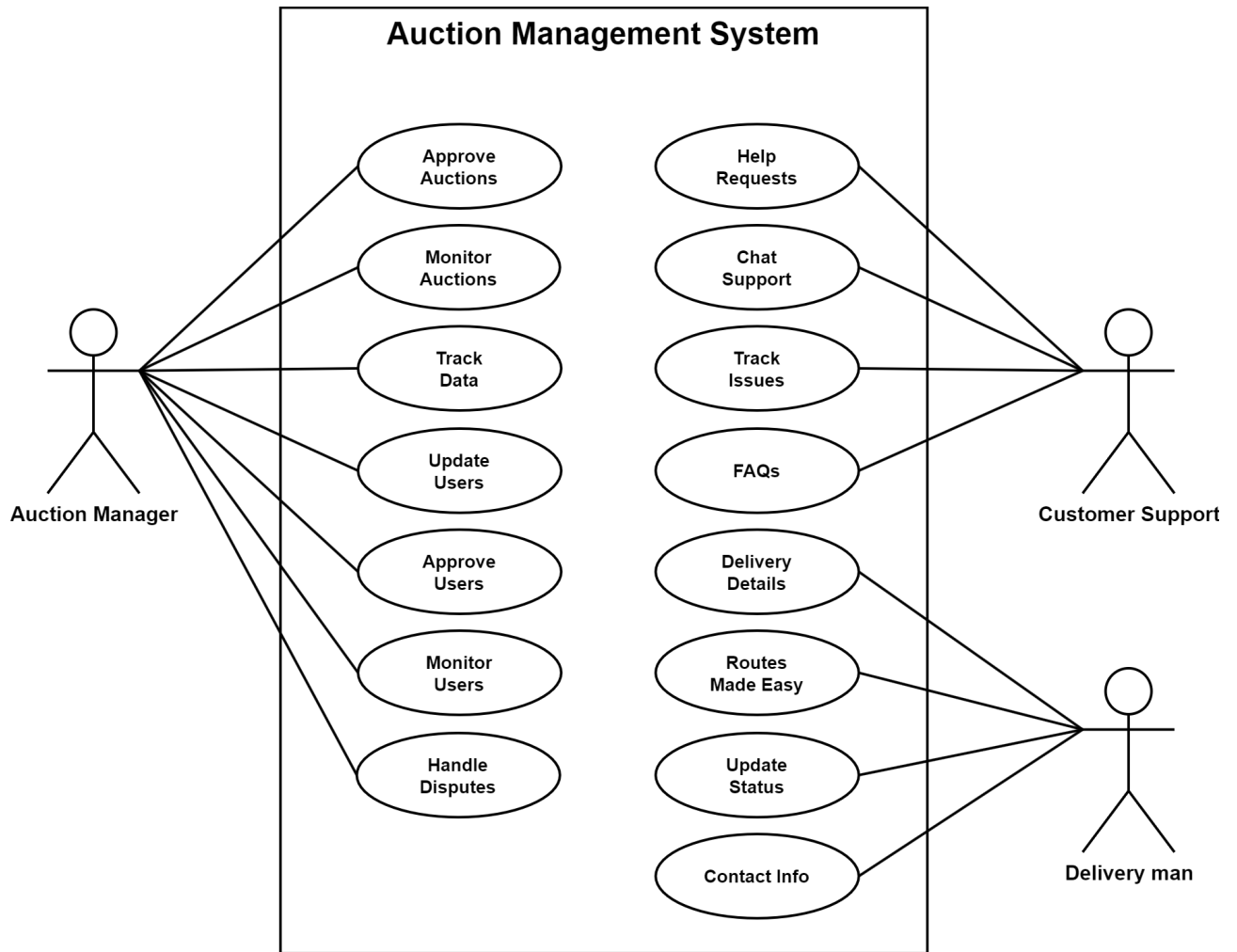


Figure 2.1-2 Use case diagram for Auction Management System

2.2 Activity diagram and Swimlane diagram

2.2.1 Activity diagram and Swimlane diagram for Creating Auction

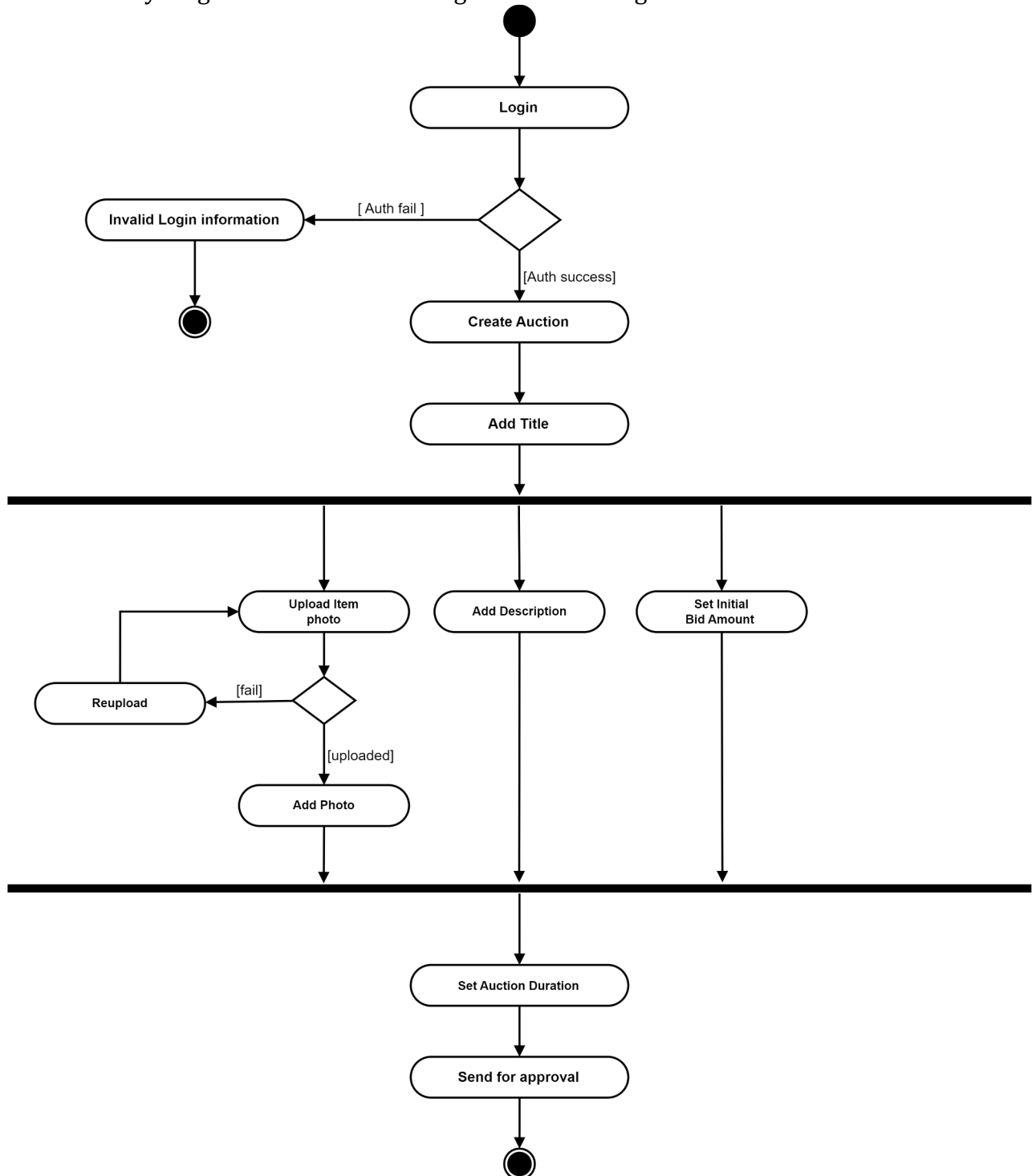


Figure 2.2.1-1 Activity diagram for Creating Auction

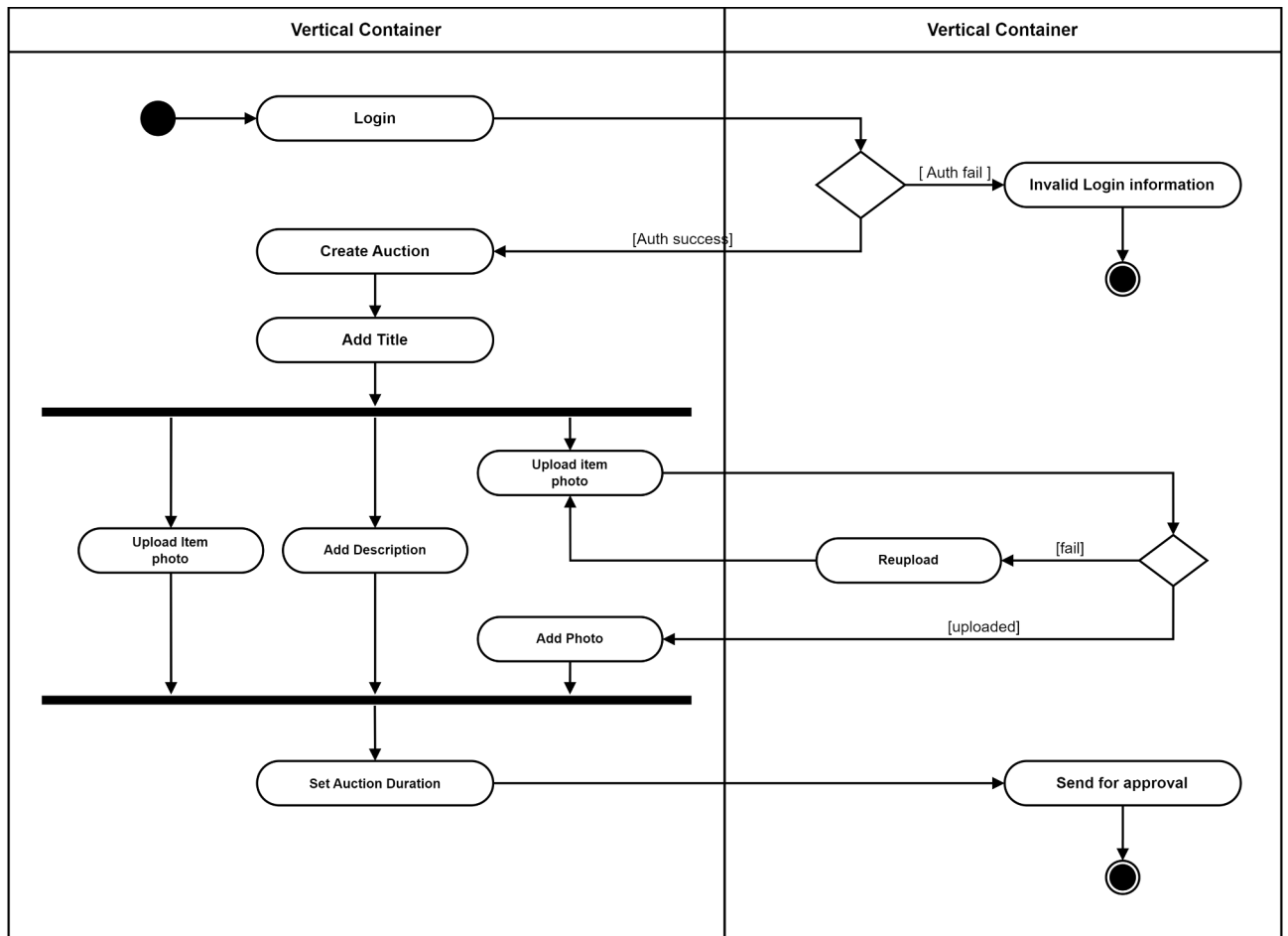


Figure 2.2.1-2 Swimlane diagram for Creating Auction

2.2.2 Activity diagram for Placing a Bid

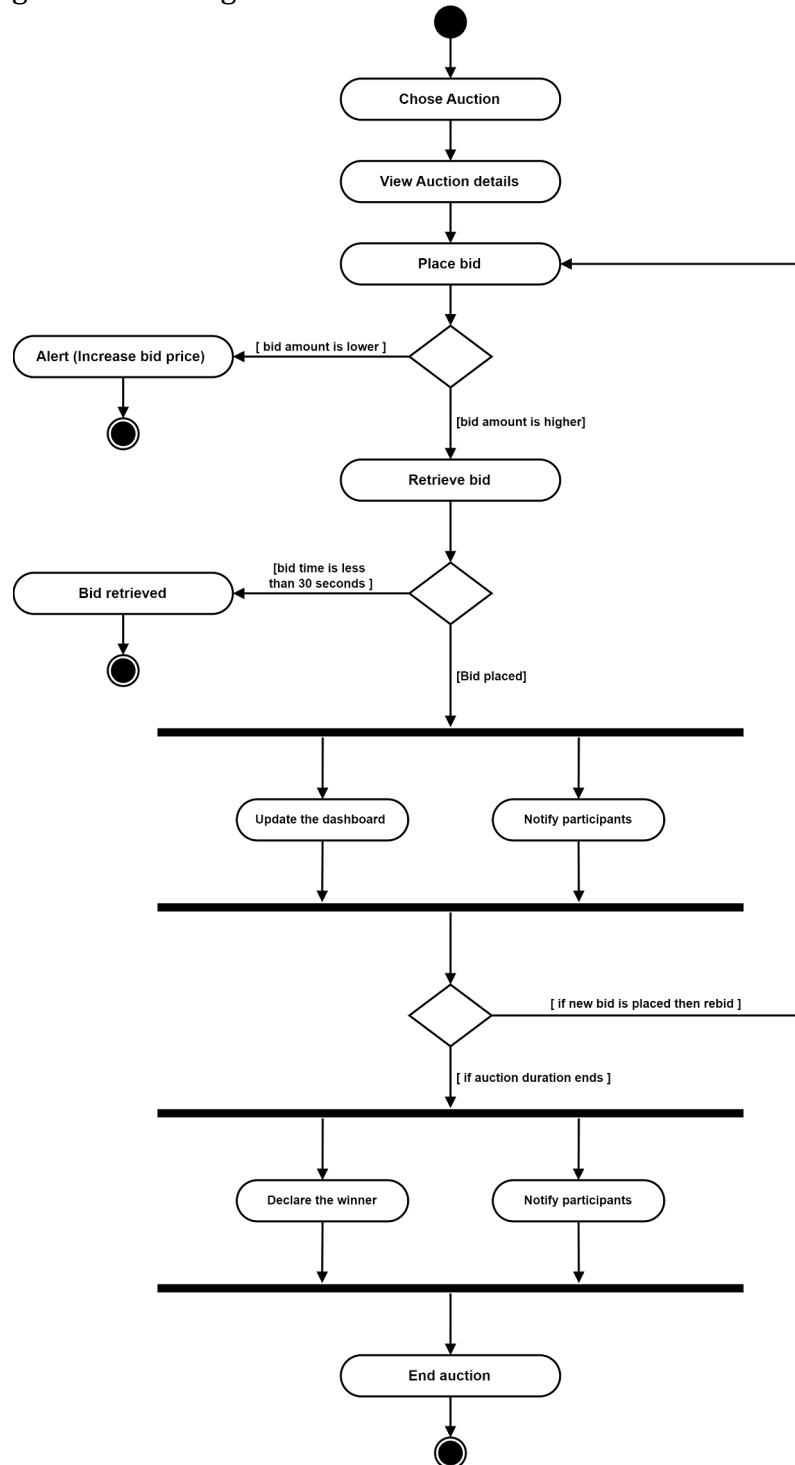


Figure 2.2.2 Activity diagram for Placing a Bid

2.3 Sequence diagram

2.3.1 Sequence diagram for Creating Auction

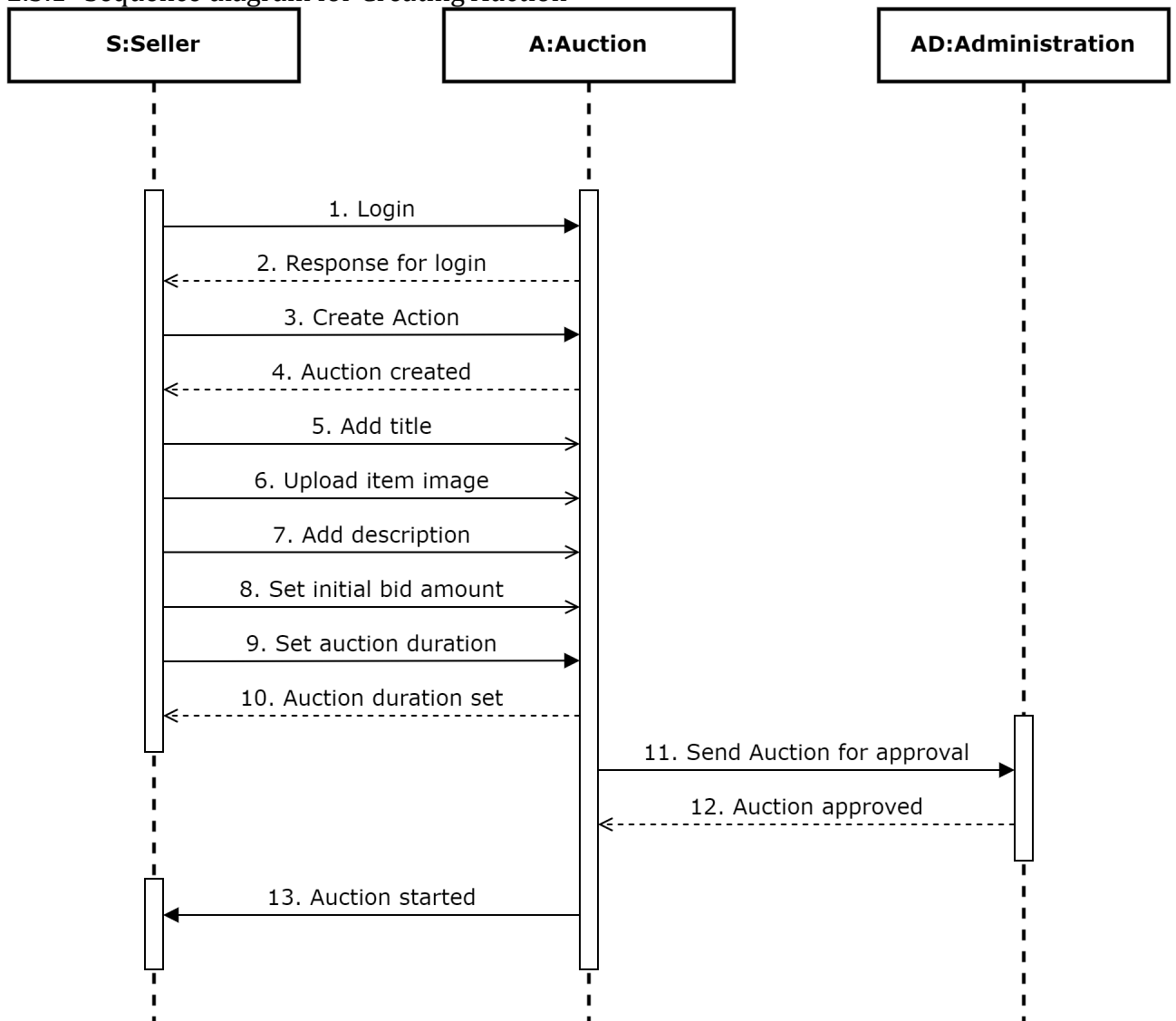


Figure 2.3.1 Sequence diagram for Creating Auction

2.3.2 Sequence diagram for Searching Auctions and Placing a Bid

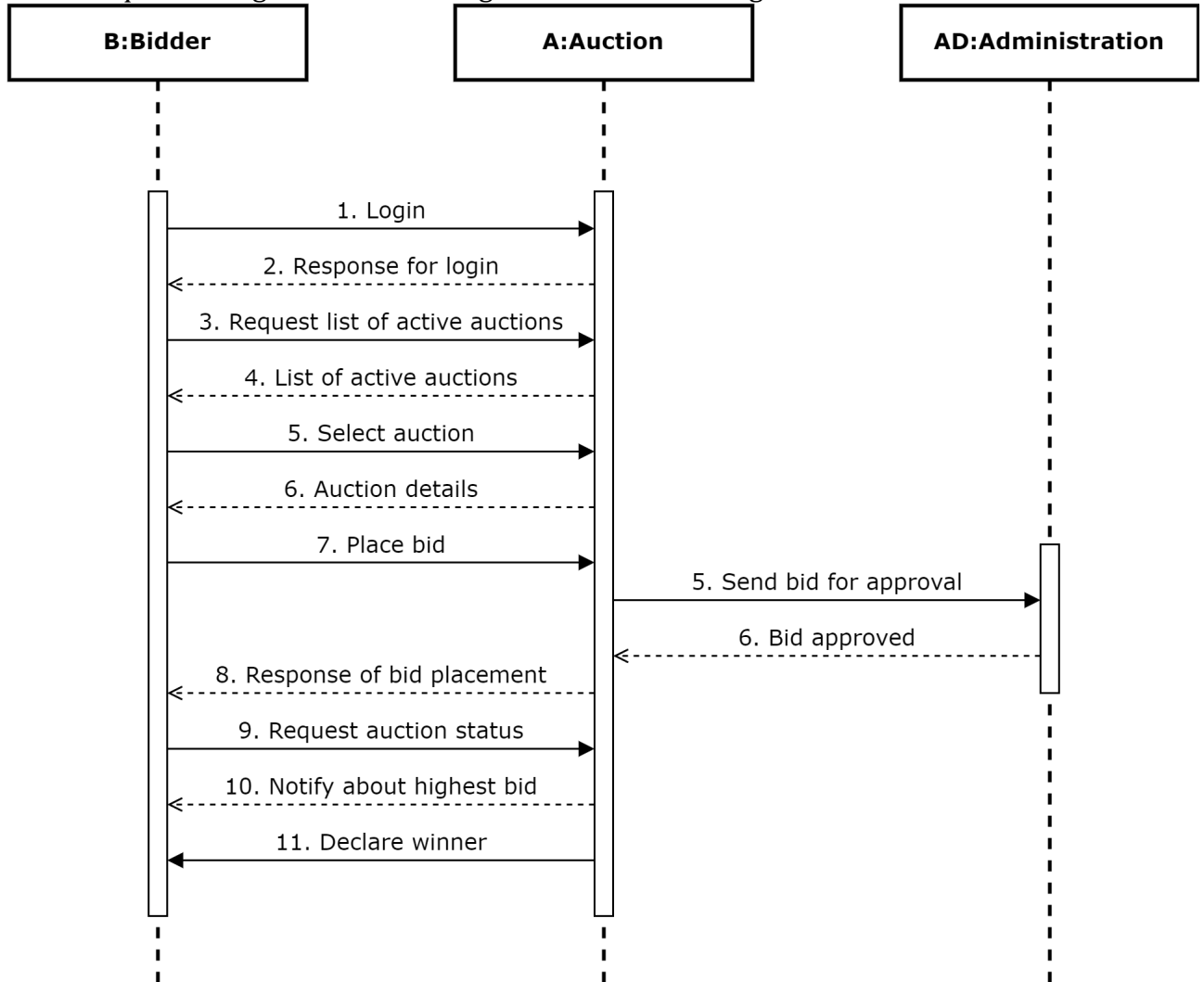


Figure 2.3.2 Searching Auctions and Placing a Bid

2.4 State diagram

2.4.1 State diagram of Auction

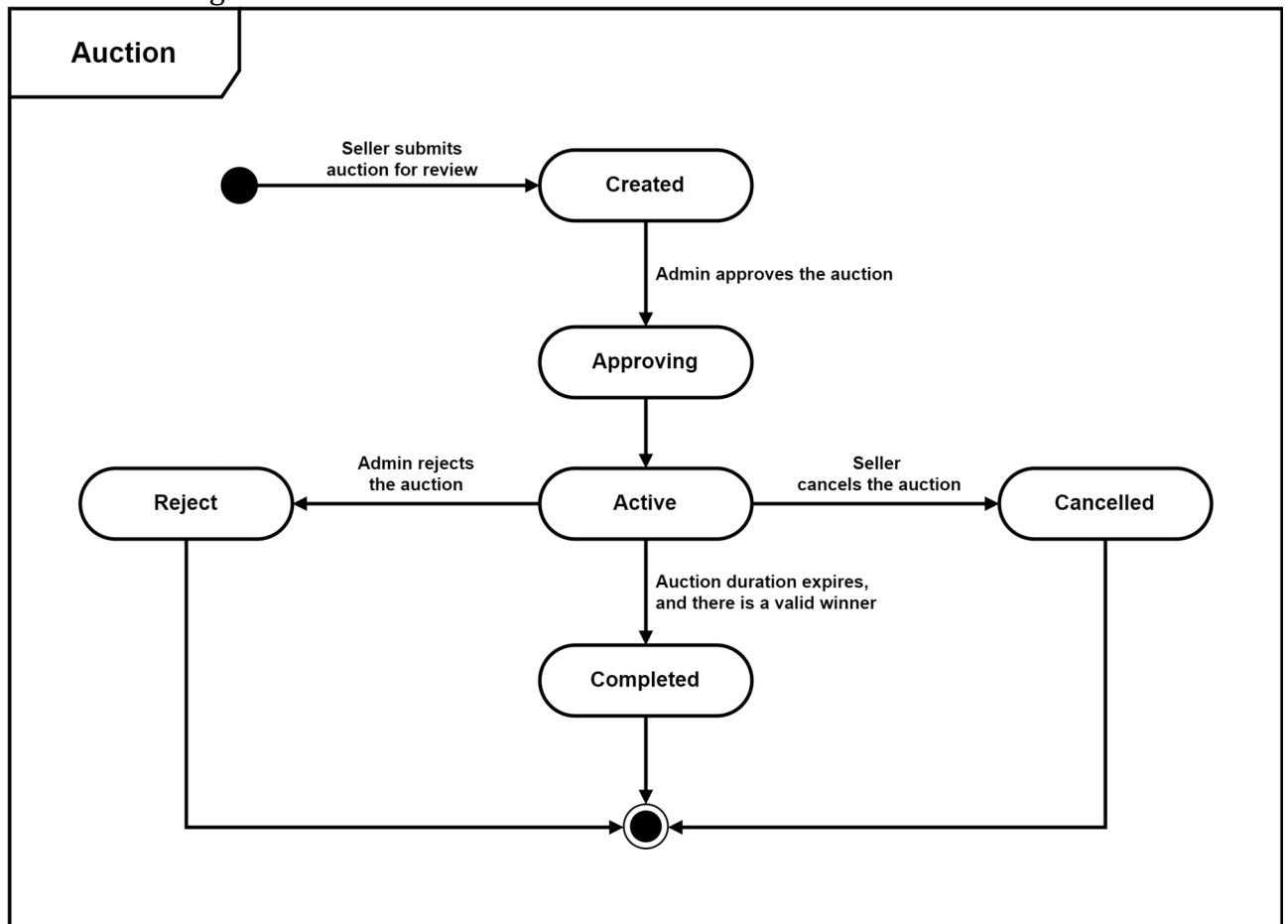


Figure 2.4.1 State diagram of Auction

2.4.2 State diagram of Bid

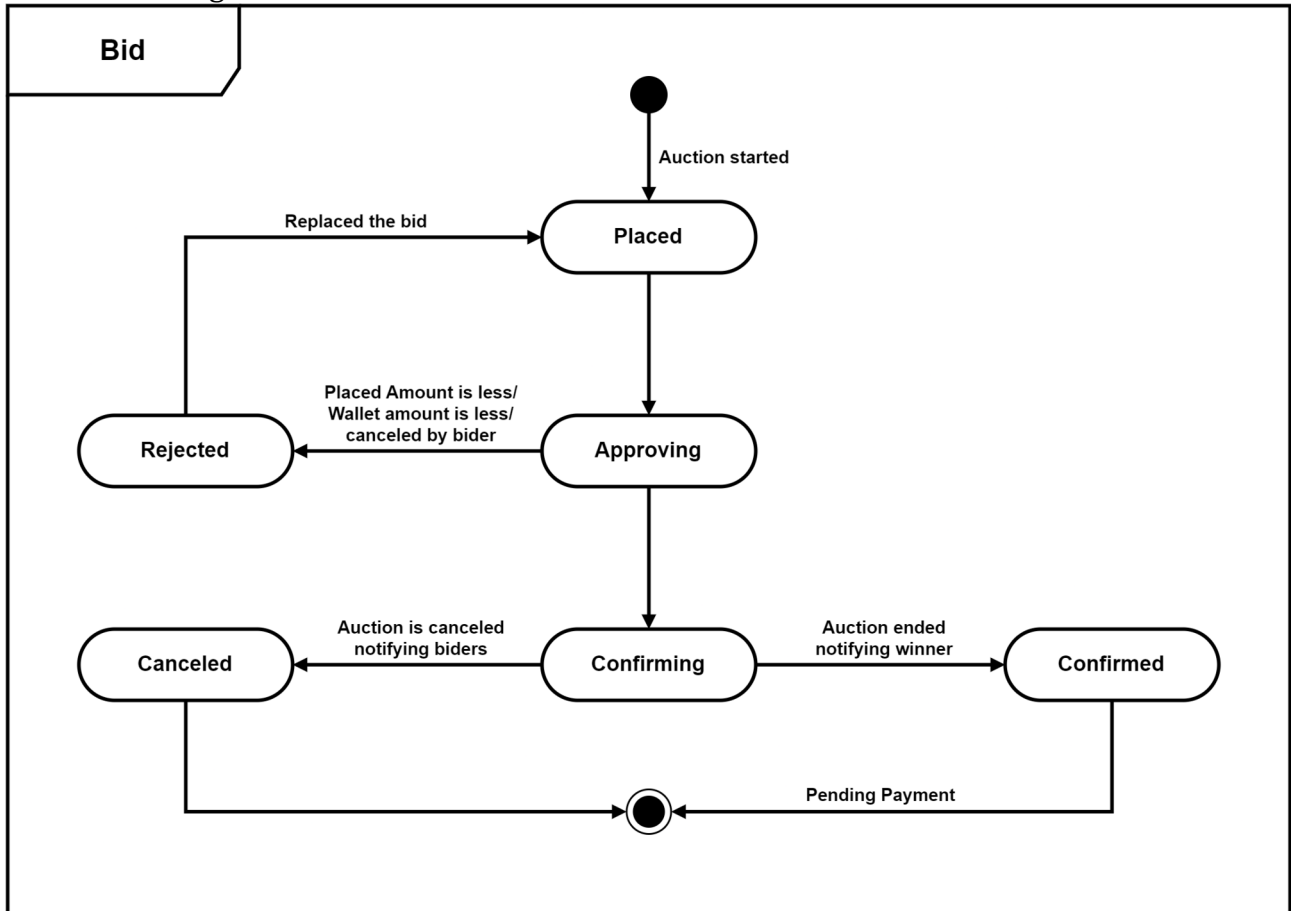


Figure 2.4.2 State diagram of Bid

2.5 Class diagram

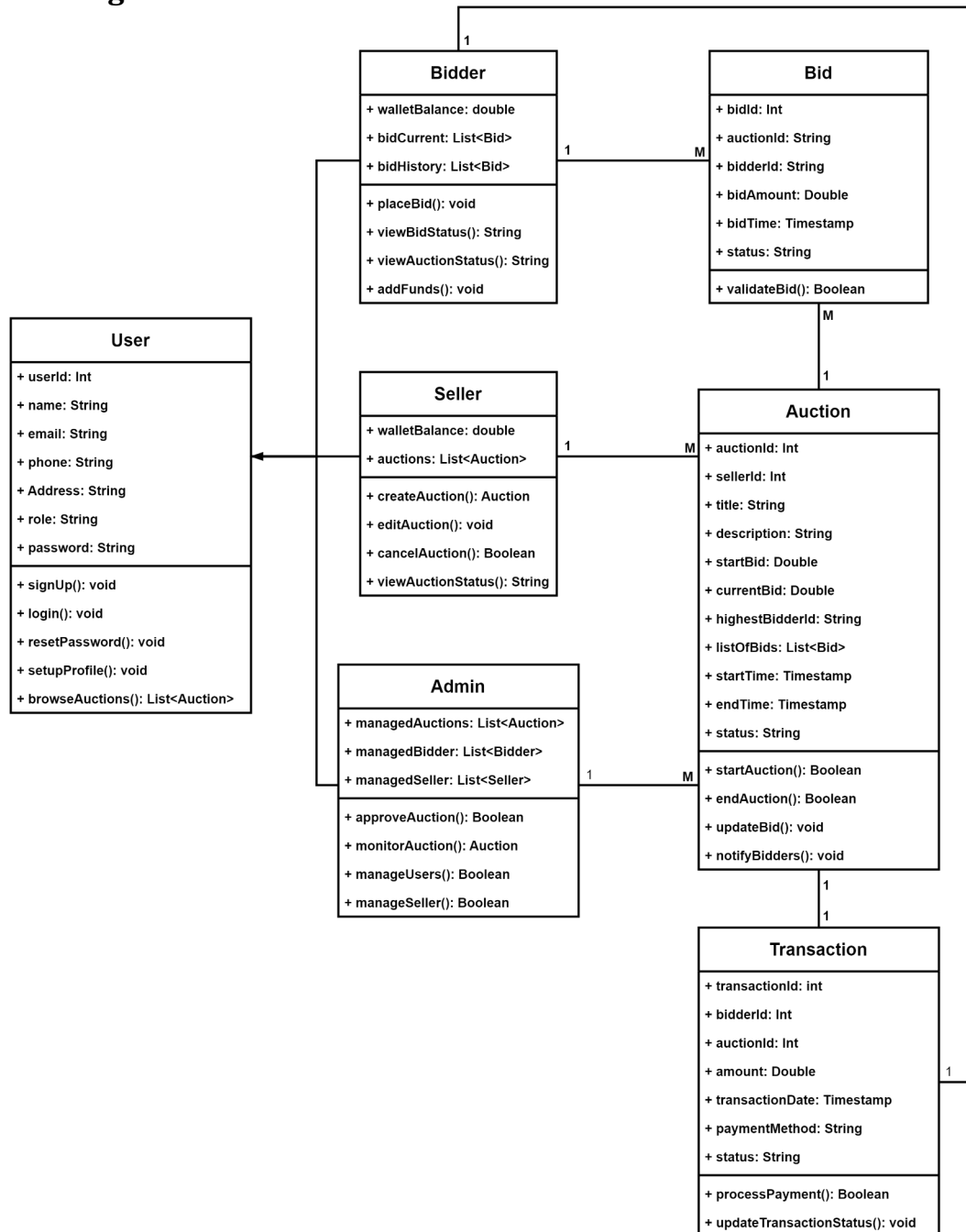


Figure 2.5 Class diagram for Auction Management System

2.6 Data flow diagram

2.6.1 Context diagram (level-0)

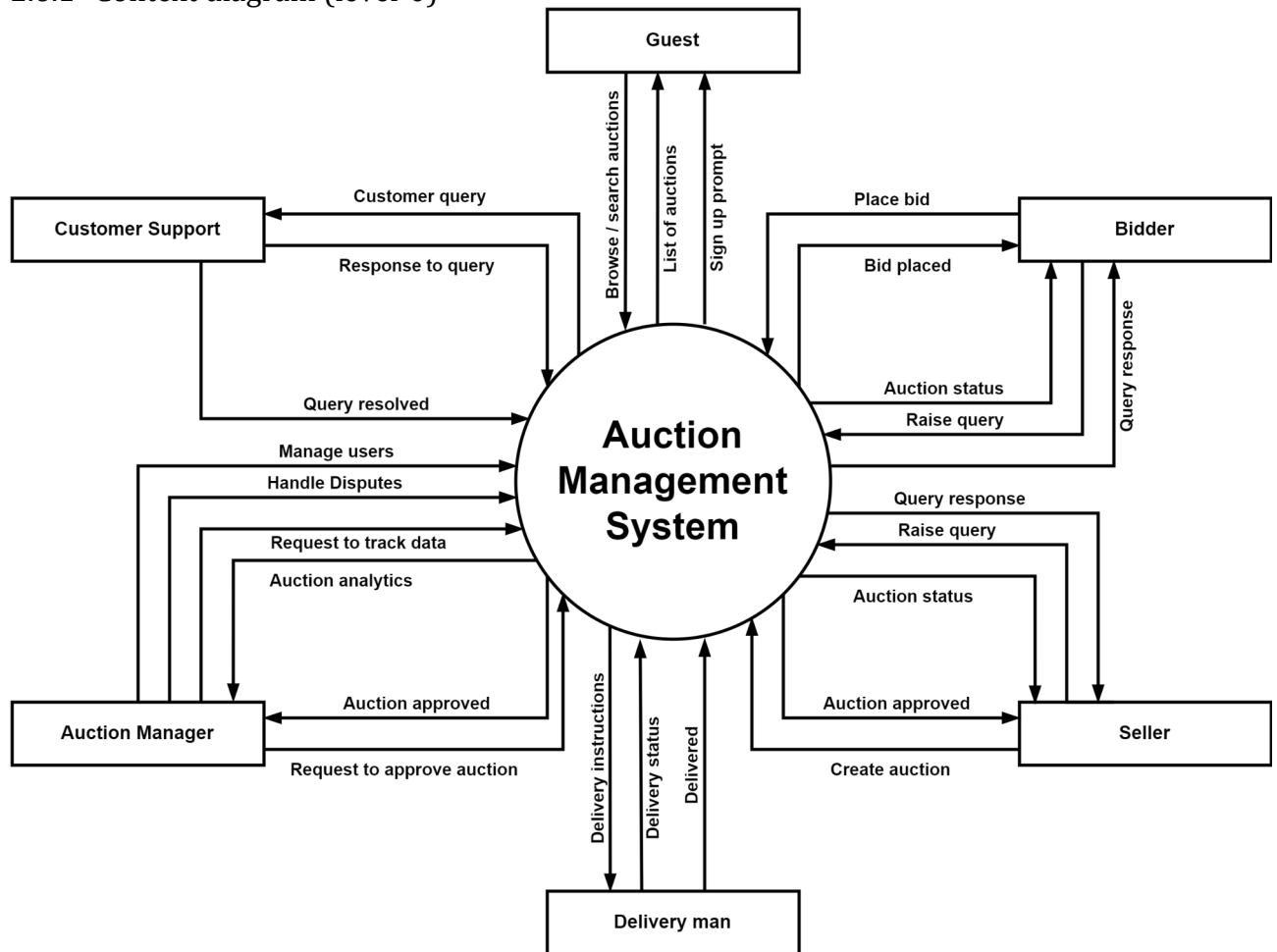


Figure 2.6.1 Context diagram (level-0) for Auction Management System

2.6.2 DFD Level-1

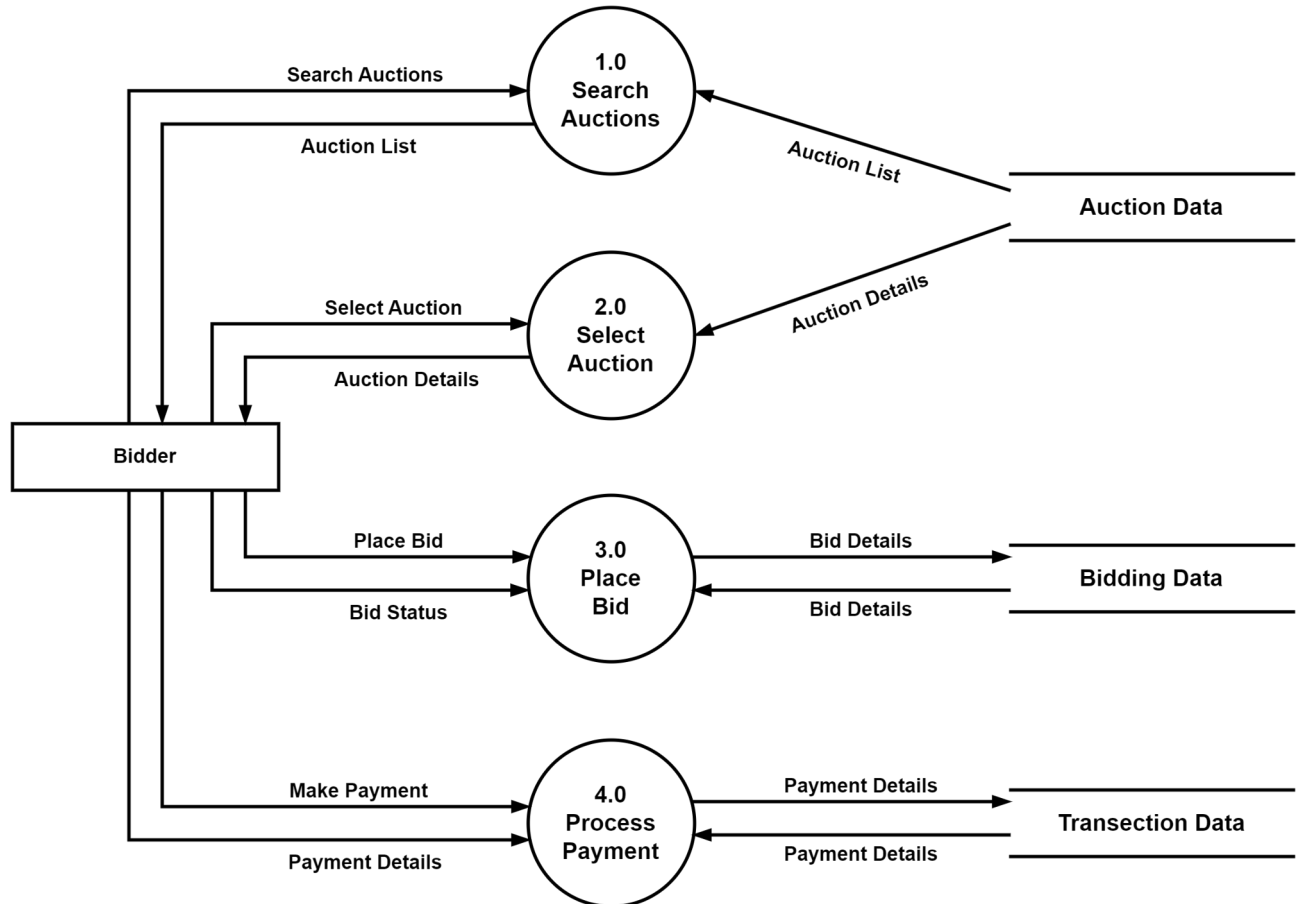


Figure 2.6.2 Data flow diagram level-1 for Auction Management System

2.6.3 DFD Level-2

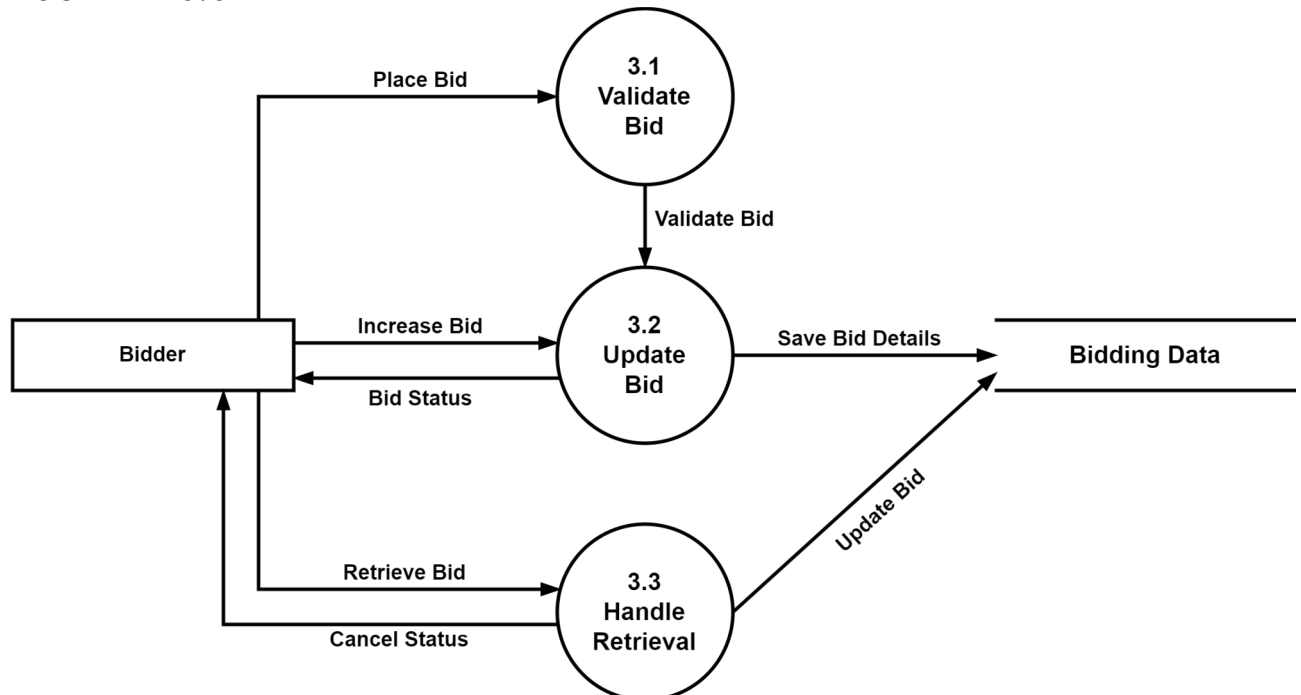


Figure 2.6.3 Data flow diagram level-2 for Auction Management System

3 External interface requirement (Screens)

3.1 Screen-1: Auction Listing

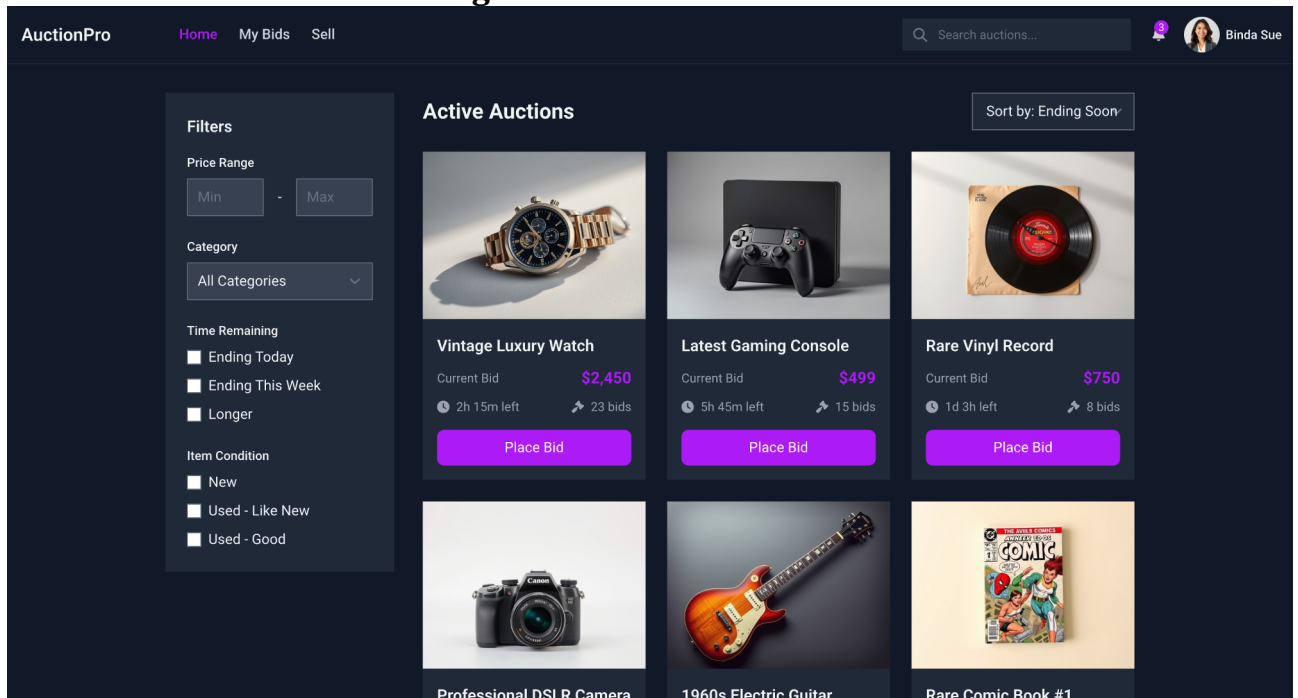


Figure 3.1 Screen-1: Auction Listing Page

Purpose: Displays all active and upcoming auctions with search and filter options, allowing users to explore auctions easily.

Table 1: Screen-1: Auction Listing Screen element of Auction Listing Page

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Search Bar	Text Input	O	1	Allows users to search auctions by title, category, or seller.
2	Filter Dropdown	Dropdown	O	N	Enables filtering by category, price, and auction status.
3	Auction Cards	Interactive Card	M	N	Shows auction details (image, title, current bid, remaining time).
4	Place Bid Button	Button	M	1	Redirects users to the auction details page.
5	Pagination	Button	O	1	Allows users to navigate through multiple pages of auction listings.

3.2 Screen-2: Auction Details

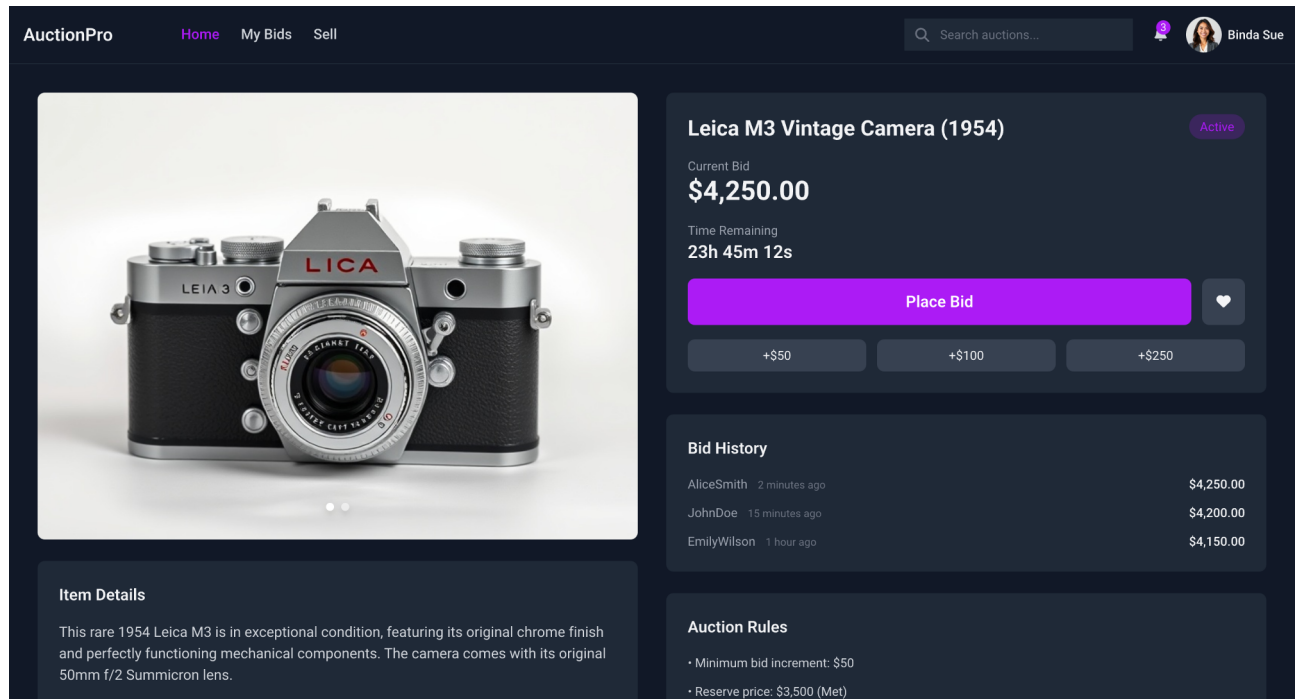


Figure 3.2 Screen-2: Auction Details Page

Purpose: Provides detailed information about a selected auction, including item description, bid history, and a bidding option for buyers.

Table 2: Screen-2: Auction Details Screen element of Auction Details Page

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Auction Image Gallery	Display	M	N	Displays multiple images of the auction item.
2	Current Bid Display	Display	M	1	Shows the highest bid placed on the auction.
3	Bid Amount Input	Number Input	M	1	Allows the bidder to enter a new bid amount.
4	Place Bid Button	Button	M	1	Submits the entered bid amount.
5	Countdown Timer	Display	M	1	Shows the remaining time before the auction ends.
6	Bid History	Display	O	N	Displays the latest bids placed by users.

3.3 Screen-3: Bidder Dashboard

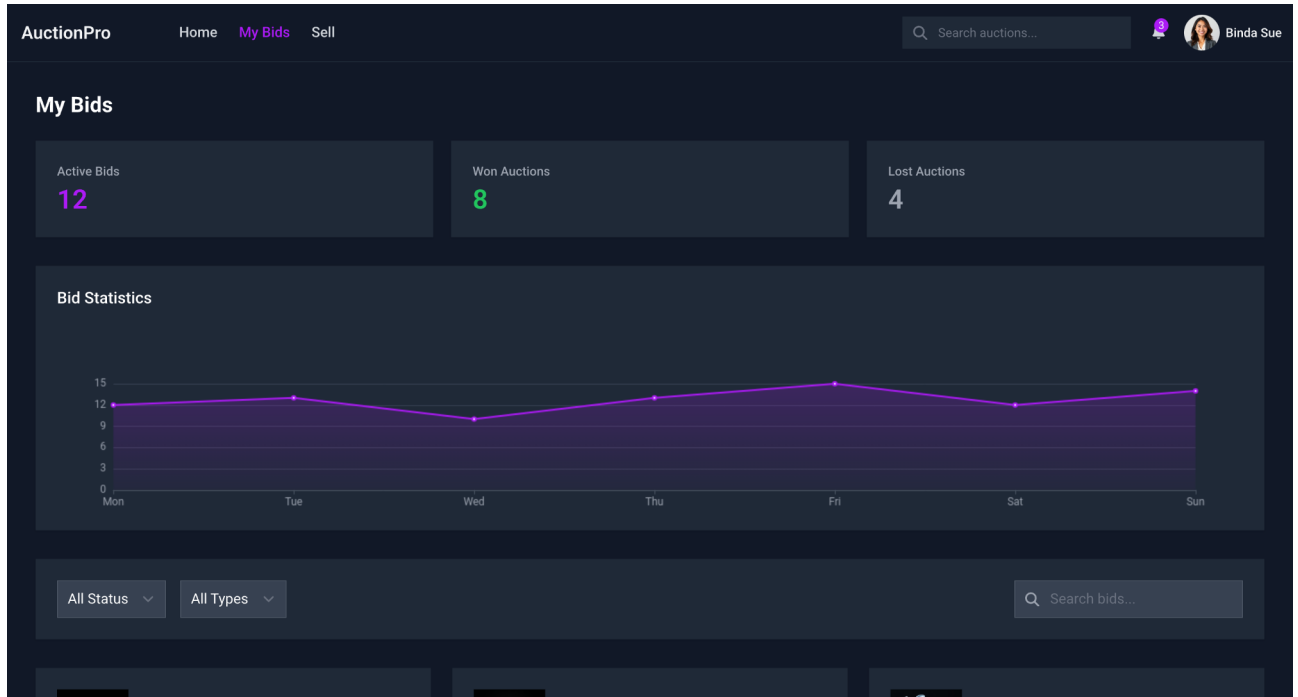


Figure 3.3 Screen-3: Bidder Dashboard

Purpose: Allows bidders to track their active, won, and lost bids while managing their auction-related activities.

Table 3: Screen-3: Bidder Dashboard Screen element of Bidder Dashboard

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Active Bids Section	Display	M	N	Shows the list of auctions where the bidder has placed bids.
2	Won Auctions Section	Display	M	N	Displays auctions won by the bidder.
3	Outbid Notification	Dialogue	O	1	Alerts the bidder when they have been outbid.
4	Bid History	Display	O	N	Shows past bidding activity.
5	Profile Information	Inveterate Page	M	1	Shows the bidder's details and allows profile updates.

3.4 Screen-4: Seller's Auction Creation Form

The screenshot shows the 'Create New Auction' form in the AuctionPro system. The form is titled 'Create New Auction' and has four tabs: 'Basic Info', 'Pricing', 'Schedule', and 'Shipping'. The 'Basic Info' tab is active. It contains sections for 'Item Details' (Auction Title, Category, Description) and 'Images'.

Figure 3.4 Screen-4: Seller's Auction Creation Form

Purpose: Provides administrators with tools to approve/reject auctions, monitor users, view reports, and manage disputes.

Table 4: Screen-4: Seller's Auction Creation Form Screen element of Seller's Auction Creation Form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Auction Title Input	Text Input	M	1	Allows the seller to enter a title for the auction.
2	Category Dropdown	Dropdown	M	1	Lets sellers select the appropriate auction category.
3	Starting Price Input	Number Input	M	1	Allows sellers to set the initial bid price.
4	Upload Images	File Upload	M	N	Sellers upload images of the item.
5	Auction Duration Picker	Date-Time Selector	M	1	Defines the auction start and end time.
6	Publish Button	Button	M	1	Submits the auction for admin review.

3.5 Screen-5: Admin Dashboard



Figure 3.5 Screen-5: Admin Dashboard

Purpose: Provides administrators with tools to approve/reject auctions, monitor users, view reports, and manage disputes.

Table 5: Screen-5: Admin Dashboard Screen element of Admin Dashboard

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Auction Approval List	Display	M	N	Shows auctions pending approval.
2	Approve Button	Button	M	1	Approves an auction for listing.
3	Reject Button	Button	M	1	Rejects an auction and notifies the seller.
4	User Management Section	Interactive Page	M	N	Allows admin to manage user accounts.
5	Reported Auctions Section	Display	M	N	Lists auctions flagged for violations.
6	System Logs	Display	M	N	Shows admin actions and system activity.

4 Database design

4.1 List of Tables

- User
- Bidder
- Transaction
- Auction
- Bid

Table 6: Schema of User

Column	Data Type	Null	Keys & Constrains	Default Value & Description
UserID	int	NN	PK (Auto Increment)	
UserName	varchar(100)	NN		
Email	varchar(100)	NN	Unique	
Phone	varchar(20)	NN	Unique	
Address	varchar(200)	NN		
Role	varchar(50)	NN	Check('User','Bidder', Seller)	
Password	varchar(100)	NN		

Table 7: Schema of Bidder

Column	Data Type	Null	Keys & Constrains	Default Value & Description
BidderID	int	NN	PK (Auto Increment)	
UserID	int	NN	FK	Reference of Users Table
WalletBalance	double	NN	Check(WalletBalance \geq 0)	

Table 8: Schema of Transaction

Column	Data Type	Null	Keys & Constrains	Default Value & Description
TransactionID	int	NN	PK (Auto Increment)	
BidderID	int	AN	FK	Reference of Seller Table
AuctionID	int	NN	FK	Reference of Auction Table
Amount	double	NN	Check(Amount \geq 0)	
TransactionDate	timestamp	NN		
PaymentMethod	varchar(50)	NN	Check('Cod','Net- banking','UPI','Card','Ch eque')	

Table 9: Schema of Auction

Column	Data Type	Null	Keys & Constrains	Default Value & Description
AuctionID	int	NN	PK (Auto Increment)	
SellerID	int	NN	FK	Reference of Seller Table
Title	varchar(100)	NN		
Description	varchar(800)	NN		
StartBid	double	NN	Check(StartBid \geq 0)	
CurrentBid	double	NN	Check(CurrentBid \geq 0)	
HighestBidderId	int	AN	FK	Reference of Bidder Table
StartTime	Timestamp	NN		
EndTime	Timestamp	NN		
Status	varchar(50)	NN	Check('Active','Inactive','Ended')	

Table 10: Schema of Bid

Column	Data Type	Null	Keys & Constrains	Default Value & Description
BidID	int	NN	PK (Auto Increment)	
AuctionID	int	NN	FK	Reference of Auction Table
BidderId	int	NN	FK	Reference of Bidder Table
BidAmount	double	NN	Check(StartBid \geq 0)	
BidTime	Timestamp	NN		
Status	varchar(50)	NN	Check('Placed','Highest','Retried')	

5 Stories and Scenario

5.1 Story-1: Place a Bid on an Auction

Story # S1	:	As a Bidder, I want to place a bid on an auctioned item, so that I can participate in the auction and attempt to purchase the item.
Priority	:	High
Estimate	:	L
Reason	:	Bidders must be able to place bids easily for the auction system to function effectively.

5.1.1 Scenario# S1.1

Scenario# S1.1	:	Placing a Bid with Valid Information
Prerequisite	:	The bidder is logged into the system and has a valid payment method.
Acceptance Criteria	:	Given: The bidder is on the auction listing page. When: The bidder selects an auction and enters a valid bid amount (higher than the current bid). Then: The system records the bid, updates the auction page, and sends a confirmation notification.

5.1.2 Scenario# S1.2

Scenario# S1.2	:	Placing a Bid with an Invalid Amount
Prerequisite	:	The bidder is logged in.
Acceptance Criteria	:	Given: The bidder is on the auction listing page. When: The bidder enters a bid lower than the current highest bid. Then: The system displays an error message stating that the bid must be higher, and the bid is not placed.

5.2 Story-2: Create an Auction Listing

Story # S2	:	As a Seller, I want to list an item for auction, So that potential buyers can bid on it.
Priority	:	High
Estimate	:	L
Reason	:	Auctions are the core feature of the platform, and sellers must be able to list items smoothly.

5.2.1 Scenario# S2.1

Scenario# S2.1	:	Successfully Creating an Auction
Prerequisite	:	The seller is logged in.
Acceptance Criteria	:	Given: The seller is on the "Create Auction" page.

	When: The seller enters valid auction details and uploads item photos. Then: The system publishes the auction, making it available for bidders.
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5.2.2 Scenario# S2.2

Scenario# S2.2	: Notifying Seller of the Auction Winner While Logged Out
Prerequisite	: The seller has an active auction that has ended.
Acceptance Criteria	Given: The seller is logged out of the system. When: The auction ends and a winner is determined. Then: The system sends a notification to the seller informing them of the auction winner.

5.3 Story-3: Approve an Auction Listing

Story # S3	: As an Auction Manager, I want to review and approve auction listings, so that only valid auctions are made public.
Priority	: Medium
Estimate	: M
Reason	: The system should prevent invalid or fraudulent listings from being published.

5.3.1 Scenario# S3.1

Scenario# S3.1	: Approving a Valid Auction
Prerequisite	: The auction manager is logged in.
Acceptance Criteria	Given: The manager is on the "Pending Auctions" dashboard. When: The manager reviews an auction and approves it. Then: The system marks the auction as approved, and the seller is notified.

5.3.2 Scenario# S3.2

Scenario# S3.2	: Rejecting an Auction with Invalid Details
Prerequisite	: The auction manager is logged in.
Acceptance Criteria	Given: The manager is on the "Pending Auctions" dashboard. When: The manager finds missing or inappropriate auction details and rejects the listing. Then: The system notifies the seller about rejection.

6 Test cases

Project Name:	Auction Management System	Test Designed by:	Dhruv R. Pithwa
Module Name:	Auction Listing	Test Designed date:	07-03-2025
Release Version:	1.0	Test Executed by:	R. B. Gondaliya
		Test Execution date:	09-03-2025

Test Case ID	Test Title	Test Type	Description
TC_001	Create auction with valid details	Functional	Ensure that the seller can successfully create an auction with all required details.
TC_002	Create auction with missing details	Functional	Verify that an error message appears when required fields are left empty.

Test Case Title	Create auction with valid details
Test Type	Functional
Test Priority	High
Pre-condition	Seller logged in.

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Navigate to auction creation page	Page loads successfully	Page loaded successfully	Pass		Seller logged in	
2	Enter valid auction details	Fields accept valid input	Data entered successfully	Pass		Title: "Vintage Watch" Category: "Collectibles", Price: "300000" End Time: "24"	
3	Upload valid auction images	Images uploaded successfully	Images uploaded	pass		Image format: .jpg, .png	
4	Click "Create Auction" button	Auction is successfully created and listed	Auction created successfully	Pass			

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Test Case Title	Create auction with missing details
Test Type	Functional
Test Priority	High
Pre-condition	Incomplete form submission.

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Navigate to auction creation page	Page loads successfully	Page loaded successfully	Pass		Seller logged in	
2	Leave required fields empty and submit	Error message displayed	Error: "Please fill all required fields"	Pass		Title: "" Category:"", Price: "" End Time: ""	
3	Upload an unsupported image format	Error message displayed	Error: "Invalid file format"	Pass		Image format: .exe, .pdf	
4	Click "Create Auction" button with errors	Auction is not created	Auction creation blocked	Pass			

Project Name:	Auction Management System	Test Designed by:	Dhruv R. Pithwa
Module Name:	Admin Dashboard	Test Designed date:	08-03-2025
Release Version:	1.0	Test Executed by:	R. B. Gondaliya
		Test Execution date:	09-03-2025

Test Case ID	Test Title	Test Type	Description
TC_003	View auction statistics and user activity	Functional	Ensure that the admin dashboard displays auction trends, user activity, and reports correctly.
TC_004	Reject a scam auction	Functional	Verify that the admin can identify and reject fraudulent auction listings.

Test Case Title	View auction statistics and user activity
Test Type	Functional
Test Priority	High
Pre-condition	Admin logged in.

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Navigate to admin dashboard	Dashboard loads successfully	Dashboard loaded successfully	Pass		Admin logged in	
2	View auction statistics and user activity	Data displayed correctly	Stats loaded correctly			Total Auctions: "50", Active: "30"	
3	Filter auctions by status	Auctions filter correctly	Filter applied successfully			Status: "Completed"	
4	Approve a pending auction	Auction is approved and listed	Auction approved successfully			Auction ID: "A123"	

Test Case Title	Reject a scam auction
Test Type	Functional
Test Priority	High
Pre-condition	Fraudulent auction reported or flagged.

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Navigate to admin dashboard	Dashboard loads successfully	Dashboard loaded successfully	Pass		Admin logged in	
2	Open auction reports section	List of reported auctions displayed	Reports loaded correctly	Pass		Total Reports: "10"	

3	Select a flagged auction	Auction details load for review	Scam auction details displayed	Pass		Auction ID: "SCM456"	
4	Click "Reject Auction" button	Auction is removed from the active listings	Auction successfully rejected	Pass			
5	Notify the seller about rejection	System sends rejection notification with reason	Seller receives rejection message	Pass		Seller ID: "S789"	

7 References

- http://www.w3schools.com/html/html_intro.asp
- <https://www.w3schools.com/php/default.asp>
- <https://www.javatpoint.com/uml>