

Darshan University

A Project Report on

"Auction Management System"

Under the subject

Software Engineering (2301CS405)

B. Tech, Semester – IV

Computer Science & Engineering Department

Submitted By

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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:



Computer Science & Engineering Department Darshan University

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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work.

I also thank my parents, friends and all the members of the family for their precious

support and encouragement which they had provided in completion of my work. In

addition to that, I would also like to mention the Darshan University personals who

gave me the permission to use and experience the valuable resources required for the

project from the University premises.

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

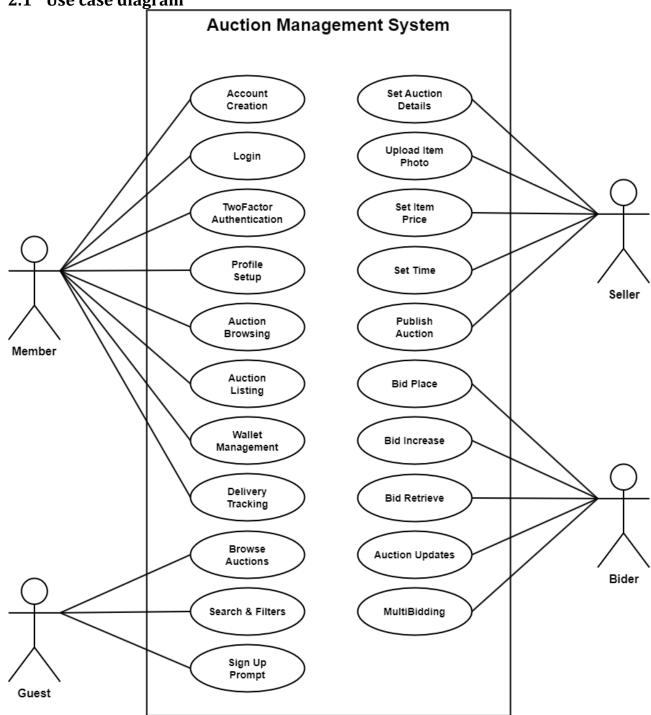


Figure 2.1-1 Use case diagram for Auction Management System

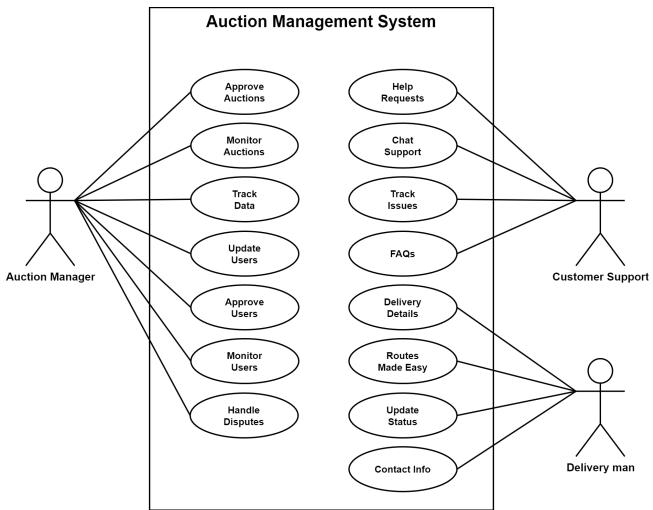


Figure 2.1-2 Use case diagram for Auction Management System

2.2 Activity diagram and Swimlane diagram

2.2.1 Activity diagram and Swimlane diagram for Creating Auction

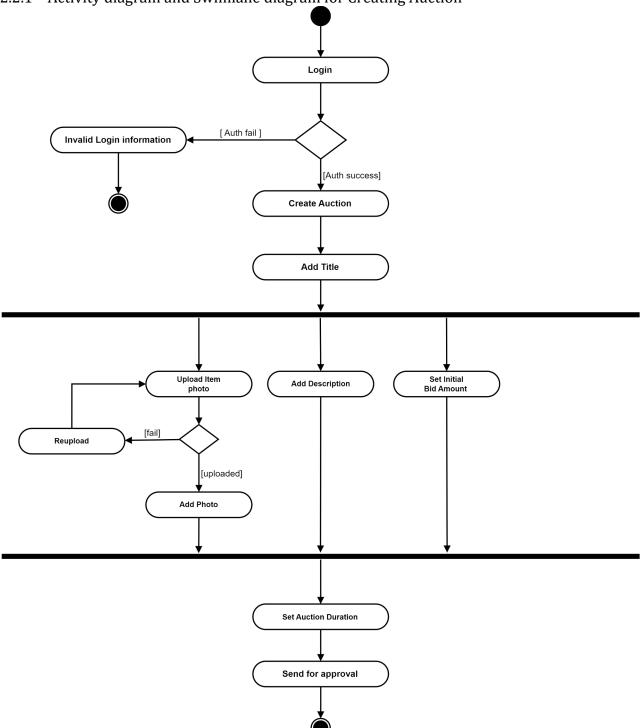


Figure 2.2.1-1 Activity diagram for Creating Auction

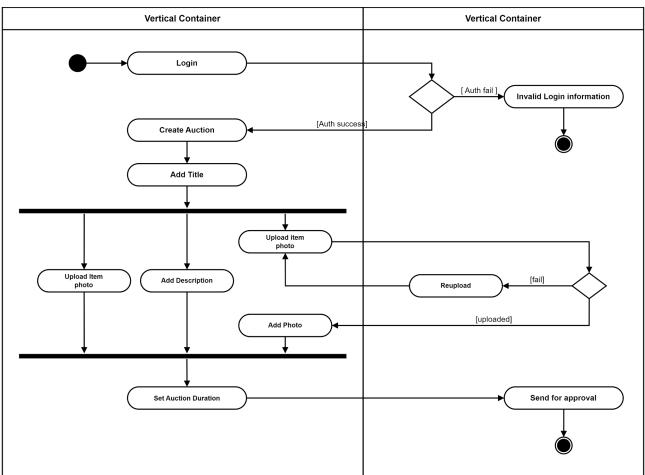


Figure 2.2.1-2 Swimlane diagram for Creating Auction

2.2.2 Activity diagram for Placing a Bid

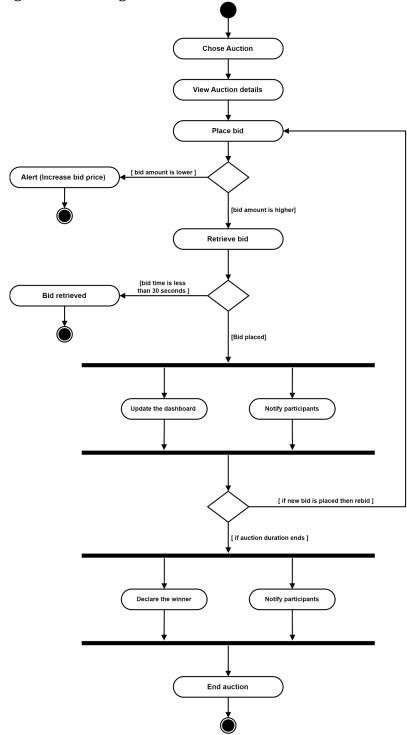


Figure 2.2.2 Activity diagram for Placing a Bid

2.3 Sequence diagram

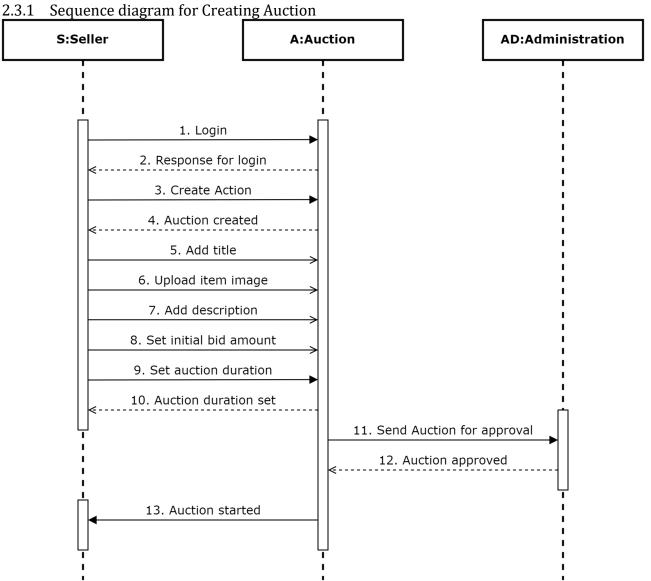


Figure 2.3.1 Sequence diagram for Creating Auction

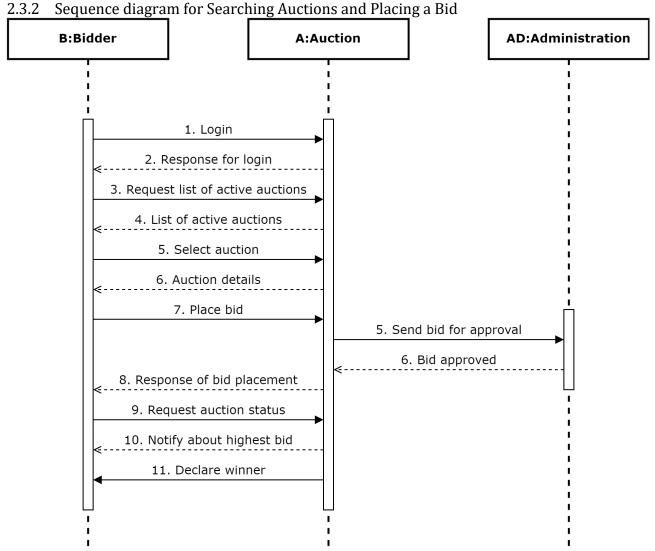


Figure 2.3.2 Searching Auctions and Placing a Bid

2.4 State diagram

2.4.1 State diagram of Auction

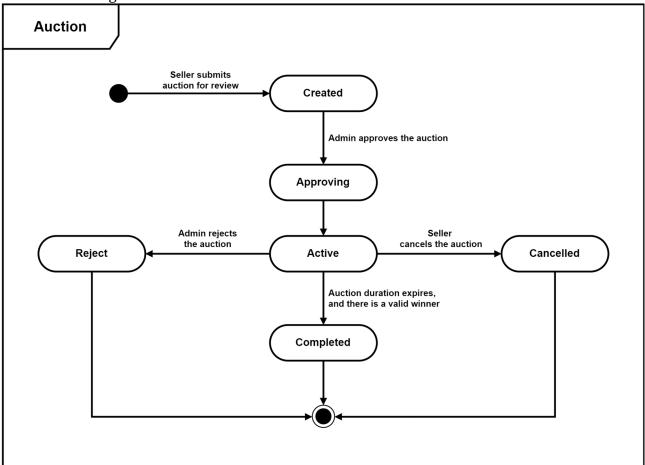


Figure 2.4.1 State diagram of Auction

2.4.2 State diagram of Bid

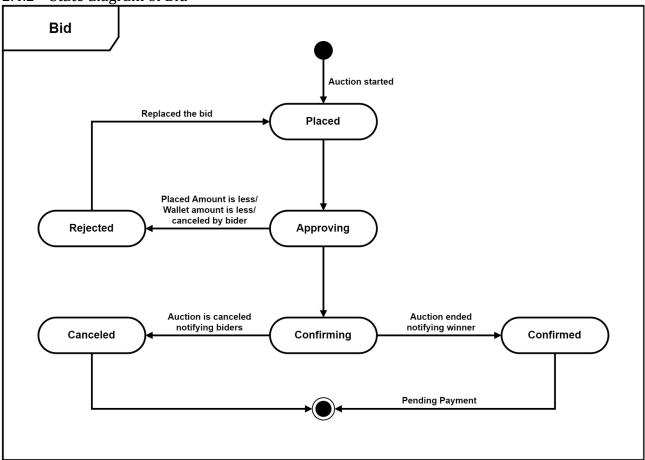


Figure 2.4.2 State diagram of Bid

2.5 Class diagram Bidder Bid + bidCurrent: List<Bid> + auctionId: String + bidHistory: List<Bid> + bidderld: String + bidAmount: Double + placeBid(): void + bidTime: Timestamp + viewBidStatus(): String + status: String + viewAuctionStatus(): String + addFunds(): void + validateBid(): Boolean User + userld: Int Seller + name: String Auction + walletBalance: double + email: String M + auctionId: Int auctions: List<Auction> + phone: String sellerld: Int + Address: String + createAuction(): Auction + title: String + editAuction(): void + description: String + password: String + cancelAuction(): Boolean startBid: Double + viewAuctionStatus(): String + signUp(): void + currentBid: Double + login(): void + highestBidderld: String + resetPassword(): void + listOfBids: List<Bid> + setupProfile(): void + startTime: Timestamp Admin browseAuctions(): List<Auction> + endTime: Timestamp + managedAuctions: List<Auction> + status: String managedBidder: List<Bidder> + startAuction(): Boolean managedSeller: List<Seller> + endAuction(): Boolean + approveAuction(): Boolean + updateBid(): void + monitorAuction(): Auction + notifyBidders(): void + manageUsers(): Boolean + manageSeller(): Boolean Transaction + transactionId: int + bidderld: Int + auctionId: Int + amount: Double + transactionDate: Timestamp + paymentMethod: String

Figure 2.5 Class diagram for Auction Management System

+ status: String

+ processPayment(): Boolean + updateTransactionStatus(): void

2.6 Data flow diagram

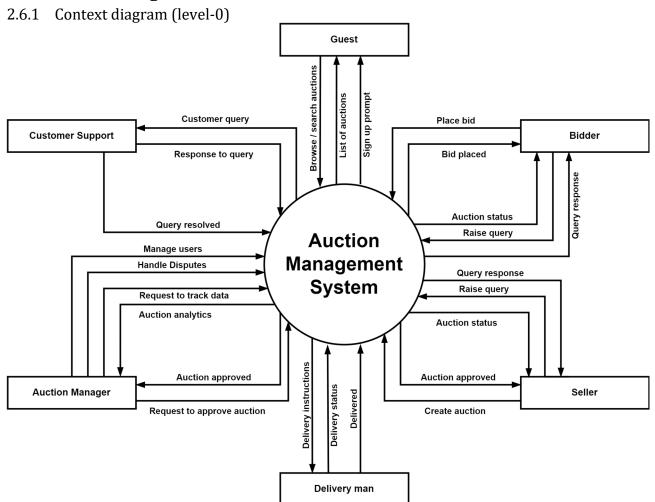


Figure 2.6.1 Context diagram (level-0) for Auction Management System

2.6.2 DFD Level-1 1.0 **Search Auctions** Search **Auctions** Auction List **Auction List Auction Data** Auction Details **Select Auction** 2.0 Select Auction **Auction Details** Bidder Place Bid **Bid Details** 3.0 **Place Bidding Data** Bid **Bid Details** Bid Status **Payment Details Make Payment Process Transection Data Payment Payment Details Payment Details**

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

2.6.3 DFD Level-2 3.1 Place Bid Validate Bid Validate Bid 3.2 Increase Bid Save Bid Details Bidder Update **Bidding Data** Bid **Bid Status** Retrieve Bid 3.3 Handle **Cancel Status** Retrieval

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

3 External interface requirement (Screens)

3.1 Screen-1: Registration Form

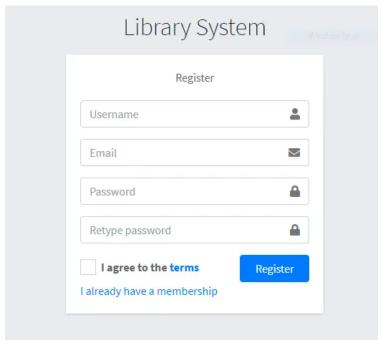


Figure Screen-1: Registration Form-1 Screen-1: Registration Form

Purpose: This form will allow the target end-users to register in the system. To register , the following information will be encoded in the system.

Table Screen-1: Registration Form-1 Screen element of Registration form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Username	Textbox	М	1	Username field should be editable and accept the Username.
2	Email	Textbox	М	1	Email field should be editable and accept the email with proper format.
3	Password	Password	М	1	Password field should be editable and accept the password and display as star or dot.
4	Retype password	Password	М	1	Retype Password field should be editable and accept the password and display as star or dot.
5	I agree to the terms	Checkbox	М	1	Checkbox for accepting terms and condition.
6	I already have a membership	Link			Link for navigate to login page for registered user.
7	Register	Button			Register is a button for store the entered data into database.

3.2 Screen-2: Login Form

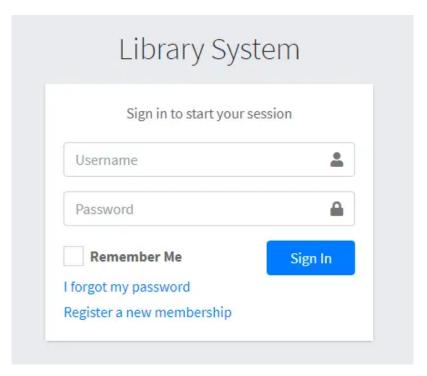


Figure Screen-2: Login Form-2 Screen-2: Login Form

Purpose: This form will be used by the system's users to access records and features of the system. The users will input the correct combination of their username and password to be able to login to the system.

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Username	Textbox	М	1	Username field should be editable and accept the Username.
2	Password	Password	М	1	Password field should be editable and accept the password and display as star or dot.
3	Remember Me	Checkbox	М	1	Saving login credentials through remember me checkbox
4	I forgot my password	Link			Link for navigate to Forgot password page for allows users to recover password.
5	Register a new membership	Link			Link for navigate to membership registration.
6	Sign in	Button			Login button navigates to another page even if

Table Screen-2: Login Form-2 Screen element of Login form

3.3 Screen-3: Add borrower book

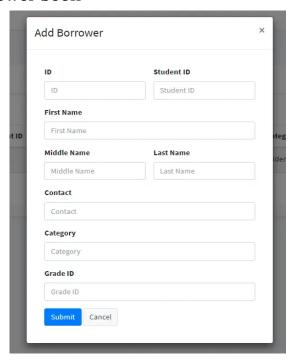


Figure Screen-3: Add borrower book-3 Screen-3: Add borrower book

Purpose: This module will allow the system administrator to add, edit, update or delete borrowers of book. The admin can add borrower information and manage it.

Table Screen-3: Add borrower book-3 Screen element of Add borrower book

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Borrower ID	Textbox	М	1	Borrower ID field should be editable and fill
		auto			autogenerated Borrower ID.
2	Student ID	Textbox	M	1	Student ID field should be editable and accept Student barcode id.
3	First Name	Textbox	М	1	First Name field should be editable and accept only string as a borrower first name.
4	Middle Name	Textbox	0	1	Middle Name field should be editable and accept only string as a borrower middle name.
5	Last Name	Textbox	М	1	Last Name field should be editable and accept only string as a borrower last name.
6	Contact	Textbox	М	1	Contact field should be editable and accept only 10-digit mobile number.
7	Grade Id	Textbox	0	1	Auto fetch detail from the database if proper student id is entered.
8	Submit	Button			Submit is a button for store the entered data into database.
9	Cancel	Button			Cancel is a button for close add borrower dialog.

4 Database design

4.1 List of Tables

- User
- Bidder
- Transaction
- Auction
- Bid

Table List of Tables-4 Table: 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 List of Tables-5 Table: Bidder

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

Table List of Tables-6 Table: 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 ≥ 0)	
TransactionDate	timestamp	NN		
PaymentMethod	varchar(50)	NN	Check('Cod','Net- banking','UPI','Card','Ch	
			eque')	

Table List of Tables-7 Table: 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 ≥ 0)	
CurrentBid	double	NN	Check(CurrentBid ≥ 0)	
HighestBidderId	int	AN	FK	Reference of Bidder Table
StartTime	Timestamp	NN		
EndTime	Timestamp	NN		
Status	varchar(50)	NN	Check('Active','Inactive', 'Ended')	

Table List of Tables-8 Table: 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 ≥ 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# \$1.1	:	Placing a Bid with Valid Information			
Prerequisite	:	The bidder is logged into the system and has a valid payment method.			
Acceptance	:	Given: The bidder is on the auction listing page.			
(higher than the current bid).		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# \$1.2	:	Placing a Bid with an Invalid Amount		
Prerequisite	Prerequisite : The bidder is logged in.			
Acceptance	:	Given: The bidder is on the auction listing page.		
Criteria		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	on : Auctions are the core feature of the platform, and sellers must be able					
		items smoothly.				

5.2.1 Scenario# S2.1

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

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

5.2.2 Scenario# S2.2

Scenario# \$2.2	:	Notifying Seller of the Auction Winner While Logged Out			
Prerequisite : The seller has an active auction that has ended.					
Acceptance	:	Given: The seller is logged out of the system.			
Criteria		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 # \$3	:	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

0.0.1		. 55.2			
Scenario# \$3.1	:	Approving a Valid Auction			
Prerequisite	:	The auction manager is logged in.			
Acceptance : Given: The manager is on the "Pending Auctions" dashboard. Criteria					
		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# \$3.2 Scenario# \$3.2 Rejection

Scenario# 33.2	:	Rejecting an Auction with Invalid Details		
Prerequisite	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:	Login	Test Designed date:	07-03-2025
Release Version:	1.0	Test Executed by:	R. B. Gondaliya
		Test Execution date:	09-03-2025

Pre-condition: Web application should be accessible							
Test Case ID	Test Title	Test Type	Description	Test Case ID			
TC_001	Login to web application with valid credential	Functiona I	Login to Library management system web application through valid credential	TC_001			
TC_002	Login to web application with invalid credential	Functiona I	Login to Library management system web application through invalid credential	TC_002			
TC_003	Varify login page elements	GUI	varify that all elements are availabe on login page	TC_003			

Test Case Title Login to web application with valid credential			
Test Type	Functional		
Test Priority	High		
Pre-condition	Web application should be accessible		

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Access Web application URL	The site launched properly	Site launched successfully	Pass		https:// accounts.google .com/ ServiceLogin	
2	Enter valid Username in username field	Username field should be editable and accept the Username	Username input accepted	Pass		Username: Rbgondaliya@ gmail.com	
3	Enter valid Password in Password field	Password field should be editable and accept the password and display as star or dot	input displayed in dot and	pass		Password: rbgondaliya	
4	Enter valid captcha code in captch field	Captch field should editable and accept captcha and captcha is case sensitive	Captcha input accepted	Pass	Step require d when human action validati on	get captcha from image which is near by captcha field	

					perfor m	
5	Click on login button	User should login into site and navigated to dashboard	User navigated to dashboard and username should br display in top of the right side.	pass		

Test Case Title	se Title Login to web application with invalid credential			
Test Type	Functional			
Test Priority	Medium			
Pre-condition	Web application should be accessible			

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Verify that User is not able to Login with invalid Username and invalid Password	Should be display an error message enter wrong username or password	Display an error of wrong username and password	Pass			
2	Verify that User is not able to Login with Valid Username and invalid Password	Should be display an error message enter wrong password	Display an error of wrong password	Pass			
3	Verify that User is not able to Login with	Should be display an error message User not found	Display an error Username not found	Pass			

	invalid Username and Valid Password					
4	Verify that User is not able to Login with blank Username or Password	Set required field validation message for Username and Password	Display an error of wrong username and password	Fail	Not performa a validation function fix it	Bug_002

Test Case Title	Varify login page elements
Test Type	GUI
Test Priority	Medium
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Launch applicatio n with the given url	The site launched properly	Site launched successfull y	Pass		https:// accounts.google.com /ServiceLogin	
2	Verify that the login screen contains elements such as Username , Password, Sign in button, Remembe r password check box, Forgot password	All listed control displayed properly on the page	Login page loaded successfull y	Pass			

	link, and					
	Create an					
	account					
3	link. Verify that cursor is focused on "Usernam e" text box on the page load	Cursor is focused in Usernam e textbox	Cursor focus in Username textbox	Pass		
4	Verify that tab functional ity is working properly or not	When tab pressed cursor move in next control	Cursor moving in next control	Pass		
5	Verify that all the fields such as Username , Password has a valid placehold er	All text fields have proper placehol der	All text fields have proper placeholde r	Pass		
6	Verify that the labels float upward when the text field is in focus or filled (In case of floating label)	When field is focused or filled, label display on top of the filled	When field is focus or filled, label display on top of the filled	Pass	step required when fields with floating label	
7	verify that forgot password	when click on forgot	forgot password link not	Fail		

link	passwor	working		
working	d load			
properly	forgot			
	passworg			
	page			

7 References

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