RIPHAH
INTERNATIONAL UNIVERSITY

Project Artifact 2
Version 2

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Use Case 01 – Register

Use case Section	Comment	
Use case no	01	
Use case name	Register	
Actor	Admin, Seller, Buyer	
Type	Primary	
Description	User registers by providing required details.	
Preconditions	User has launched the application.	
Postconditions	User account is created and stored securely.	
Normal flows	**Actor Action**	**System Response**
	1. User enters registration details.	2. Validates from details.
		3. Creates new account.
Alternative flows	A1.1 details are invalid or already exist, system asks user to re-enter	

Use Case 02 – Sign In

Use case Section	Comment	
Use case no	02	
Use case name	Sign In	
Actor	Admin, Seller, Buyer	
Type	Primary	
Description	User logs into the system.	
Preconditions	User is registered.	
Postconditions	User is redirected to their dashboard.	
Normal flows	**Actor Action**	**System Response**
	1. User enters credentials.	2. Verifies the credentials from database.
		3. Redirects to dashboard.
Alternative flows	A1.1 If credentials are invalid, system asks user to retry. A1.2 If account is blocked, System shows "Access Denied."	

Use Case 03 – Manage User Accounts

Use case Section	Comment	
Use case no	03	
Use case name	Manager User Accounts	
Actor	Admin	
Type	Primary	
Description	Admin manages user accounts and permissions.	
Preconditions	Admin is logged in.	
Postconditions	User account is updated or removed.	
Normal flows	**Actor Action**	**System Response**
	1. Admin selects a user account.	2. Displays account details.
	3. Admin updates permissions or delete account.	4. Saves changes if it is Updated.
Alternative flows	A1.1 If user account does not exist, System shows error. A1.2 If admin lacks required permissions, System prevents action.	

Use Case 04 – Approve / Reject Listings

Use case Section	Comment	
Use case no	04	
Use case name	Approve / Reject Listings	
Actor	Admin	
Type	Primary	
Description	Admin approves or reject property listings.	
Preconditions	Seller submitted a listing.	
Postconditions	Listing is approved or rejected.	
	Actor Action	**System Response**
Normal flows	1. Admin views listing.	2. Shows property details.
	3. Admin approves / rejects.	4. Updates status if reject or approved.
Alternative flows	A1.1 If property details are incomplete, System rejects and asks Seller to update. A1.2 If system errors occurs, Admin is notified, status remains "Pending."	

Use Case 05 – Verify Ownership Documents

Use case Section	Comment	
Use case no	05	
Use case name	Verify Ownership Documents	
Actor	Admin	
Type	Primary	
Description	Admin verifies property ownership documents.	
Preconditions	Seller has uploaded documents.	
Postconditions	Property is marked as Verified or rejected.	
Normal flows	**Actor Action**	**System Response**
	1. Admin opens pending document list.	2. Displays documents awaiting verification.
	3. Admin reviews documents.	4. Provides approve / reject options.
	5. Admin selects approve or reject.	6. Updates property status accordingly.
Alternative flows	A1.1 If documents are invalid or expired, Admin rejects with reason. A1.2 If file is corrupted, System requests Seller to re-upload.	

Use Case 06 – Monitor Bidding

Use case Section	Comment	
Use case no	06	
Use case name	Monitor Bidding	
Actor	Admin	
Type	Primary	
Description	Admin monitors bidding activity and finalizes winners after deadline.	
Preconditions	Properties are listed in bidding section.	
Postconditions	Highest valid bidder wins auction.	
	Actor Action	**System Response**
Normal flows	1. Admin views ongoing bids.	2. Displays bidding details.
	3. Admin monitors bidding activity.	4. Updates bids in real-time.
	5. After deadline, Admin finalizes winner.	6. System close auction and notifies winner.
Alternative flows	A1.1 If no bids are placed, System marks property as unsold. A1.2 If two highest bids are tied, Admin decides manually.	

Use Case 07 – Moderate Chats

Use case Section	Comment	
Use case no	07	
Use case name	Moderate Chats	
Actor	Admin	
Type	Primary	
Description	Admin monitors chats and takes actions if violations occur.	
Preconditions	User are exchanging messages.	
Postconditions	Inappropriate messages are blocked or users restricted.	
Normal flows	**Actor Action**	**System Response**
	1. Admin opens chat logs.	2. Displays ongoing conversations.
	3. Admin reviews flagged or reported chats.	4. Admin allow to block / remove.
	5. Admin removes inappropriate content.	6. Updates chat history.
Alternative flows	A1.1 If credentials are invalid, system asks user to retry. A1.2 If Admin blocks a user, That user cannot send further messages.	

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Use Case 08   View Reports

Use case Section	Comment
Use case no	08
Use case name	View Reports
Actor	Admin
Type	Primary
Description	Admin views reports, user activity, verification status, and system health.
Preconditions	Admin is logged in.
Postconditions	Reports are generated and displayed.

	Actor Action	System Response
Normal flows	1. Admin selects report type.	2. Retrieves data from Database
	3. Admin requests report generation.	4. System generates and displays report.

Alternative flows	A1.1 If no data is found → System shows "No Data Available." A1.2 If Admin cancels request → Report generation stops.

Use Case 09   Manage Listings (Seller)

Use case Section	Comment	
Use case no	09	
Use case name	Manage Listings	
Actor	Seller	
Type	Primary	
Description	Seller can add, edit, or delete property listings.	
Preconditions	Seller is logged in.	
Postconditions	Listings updated in system.	
	Actor Action	**System Response**
Normal flows	1. Seller opens dashboard.	2. Displays listing options.
	3. Seller creates, edits, or deletes listing.	4. Saves updates in database.
Alternative flows	A1.1 If required details missing → System prompts correction. A1.2 If seller deletes listing → System confirms deletion.	

Use Case 10 – Upload Media/Documents

Use case Section	Comment	
Use case no	10	
Use case name	Upload Media/Documents	
Actor	Seller	
Type	Primary	
Description	Seller uploads images, videos, and ownership documents.	
Preconditions	Seller is logged in.	
Postconditions	Files stored securely.	
Normal flows	**Actor Action**	**System Response**
	1. Seller uploads file.	2. Validate the file type/size.
	3. File is valid.	4. Stores file securely in database.
Alternative flows	A1.1 If file too large → System rejects upload. A1.2 If unsupported format → System requests correct format.	

Use Case 11 – Post Property for Bidding

Use case Section	Comment	
Use case no	11	
Use case name	Post Property for Bidding	
Actor	Seller	
Type	Primary	
Description	Seller lists property with starting price and deadline.	
Preconditions	Seller has created a property listing.	
Postconditions	Property is listed in bidding section.	
Normal flows	**Actor Action**	**System Response**
	1. Seller selects "Post for Bidding."	2. Asks for details (price, deadline).
	3. Seller provides required details.	4. Saves property under Bidding section.
Alternative flows	A1.1 If starting price missing → System prompts entry. A1.2 If deadline invalid → System rejects listing.	

Use Case 12 – Chat with Buyer

Use case Section	Comment	
Use case no	12	
Use case name	Chat with Buyer	
Actor	Seller	
Type	Primary	
Description	Seller securely chats with buyers.	
Preconditions	Buyer initiates chat.	
Postconditions	Messages exchanged securely.	
Normal flows	**Actor Action**	**System Response**
	1. Seller opens chat.	2. Retrieves Buyer messages.
	3. Seller types and sends message.	4. Send to Buyer.
Alternative flows	A1.1 If message fails → System retries later. A1.2 If Buyer blocked Seller → Message not delivered	

Use Case 133 –Notifications (Seller)

Use case Section	Comment	
Use case no	13	
Use case name	Notifications (Seller)	
Actor	Seller	
Type	Primary	
Description	Seller receives notifications about bids, chats, and approvals.	
Preconditions	Event (bid, chat, approval) has occurred.	
Postconditions	Seller notified.	
Normal flows	**Actor Action**	**System Response**
	1. Event occurs (bid, approval, chat).	2. Generates & send notification.
	3. Seller opens notification panel.	4. Displays details of notification.
Alternative flows	A1.1 If delivery fails → System retries. A1.2 If Seller disabled notifications → Message stored in dashboard.	

Use Case 14 – Search & Filter Listings

Use case Section	Comment	
Use case no	14	
Use case name	Search & Filter Listings	
Actor	Buyer	
Type	Primary	
Description	Buyer searches/filter listings by location, price, type.	
Preconditions	Buyer is logged in.	
Postconditions	Filtered results displayed.	
Normal flows	**Actor Action**	**System Response**
	1. Buyer enters search/filter.	2. Processes the query.
	3. Buyer confirms search.	4. Displays the filtered listings.
Alternative flows	A1.1 If no results → System shows "No Listings Found." A1.2 If invalid filter → System shows error.	

Use Case 15 - Place Bid

Use case Section	Comment	
Use case no	15	
Use case name	Place Bid	
Actor	Buyer	
Type	Primary	
Description	Buyer places bid on property before deadline.	
Preconditions	Buyer logged in & viewing property.	
Postconditions	Bid recorded in system.	
Normal flows	**Actor Action**	**System Response**
	1. Buyer enters bid amount.	2. Checks deadline & min bid.
	3. Bid valid	4. Records bid and updates property.
Alternative flows	A1.1 If bid too low → System rejects. A1.2 If deadline passed → System blocks bid. A1.3 If Buyer restricted → Bid not accepted.	

Use Case 16 - Chat with Seller

Use case Section	Comment	
Use case no	16	
Use case name	Chat with Seller	
Actor	Buyer	
Type	Primary	
Description	Buyer securely chats with Seller.	
Preconditions	Both are logged in.	
Postconditions	Messages exchanged securely.	
Normal flows	**Actor Action**	**System Response**
	1. Buyer opens chat.	2. Loads Seller messages.
	3. Buyer sends message.	4. Send to Seller.
Alternative flows	A1.1 If Seller offline → System notifies Buyer. A1.2 If delivery fails → System retries.	

Use Case 17 – Browse Listings (Guest)

Use case Section	Comment	
Use case no	17	
Use case name	Browse Listings (Guest)	
Actor	Guest	
Type	Primary	
Description	Guest can browse listings without login.	
Preconditions	Guest opens the website.	
Postconditions	Listings are displayed.	
Normal flows	**Actor Action**	**System Response**
	1. Guest opens website.	2. Loads property listings.
	3. Guest scrolls through properties.	4. Displays details.
Alternative flows	A1.1 If data unavailable → System shows error. A1.2 If Guest tries bidding/chat → System requests registration.	

Use Case 17 – System Notifications

Use case Section	Comment	
Use case no	18	
Use case name	System Notifications	
Actor	System	
Type	Primary	
Description	System sends notifications for events (bids, approvals, messages).	
Preconditions	Trigger event occurs.	
Postconditions	Notification delivered to user.	
Normal flows	**Actor Action**	**System Response**
	1. Trigger event occurs (bid, approval, chat).	2. Generates & send notification.
	3. System attempts delivery	4. User device receives alert.
Alternative flows	A1.1 If undelivered → System retries or logs failure. A1.2 If device offline → System queues notification for later.	