

Purpose of the Document

The purpose of this document is to define the testing approach and overall framework that will guide the execution of User Acceptance Testing (UAT) for the Comprehensive Database Management System (CDBMS) developed for the Central Academy for State Forest Service (CASFOS), Coimbatore.

This document ensures that all functionalities specified in the Software Requirements Specification (SRS) and performance metrics outlined in the Service Level Agreement (SLA) are validated against user expectations and operational needs. It outlines the strategic testing methodology, scope, objectives, environment, roles, and acceptance criteria to confirm that the system is ready for deployment and capable of providing a secure, efficient, and user-friendly data management user experience.

User Acceptance Testing will focus on validating:

- Functional correctness across all user roles (Faculty EntryStaff,Faculty Verifier,Store Keeper,Asset Manager,Head Of Office,Viewer,Principal).
- Hierarchical complaint workflow and escalation mechanisms.
- Real-time notifications and dashboard analytics.
- Role-based access, secure media handling, and reporting features.
- Compliance with performance, security, and usability standards.

The outcome of this UAT process will determine whether the Comprehensive Database Management System meets the expectations of its stakeholders and fulfills its intended purpose before going live.



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1 Introduction

1.1 Purpose

The purpose of this User Acceptance Testing (UAT) document is to outline the strategy, scope, and execution plan for validating that the Comprehensive Database Management System(CDBMS) meets the functional and non-functional requirements specified in the Software Requirements Specification (SRS) and Service Level Agreement (SLA). UAT aims to ensure the system is user-friendly, reliable, and capable of supporting stakeholders (Faculty Entry Staff,Faculty Verifier,Store keeper,Asset Manager,Head of Office,Viewer,Principal) in lodging, tracking the data efficiently at CASFOS. The testing will confirm that the system aligns with stakeholder expectations and complies with operational, security, and performance standards.

1.2 PROJECT OVERVIEW

The Comprehensive Database Management System (CDBMS) is a web-based application built using the MERN stack (MongoDB, Express.js, React.js, Node.js) to streamline and digitize faculty and asset data management within an institution. The system incorporates structured multi-level workflows—Faculty data flows from Faculty Entry Staff \rightarrow Faculty Verifier \rightarrow Head of Office \rightarrow Principal, while Asset data flows from Store Keeper \rightarrow Asset Manager \rightarrow Head of Office \rightarrow Principal—ensuring proper verification, approval, and accountability at each stage. Role-based access control (RBAC) is implemented to restrict user actions based on their roles, with additional access for viewers to monitor all records. CDBMS supports real-time updates, status tracking, PDF/Excel report generation, document uploads, and analytics dashboards, enhancing transparency, operational efficiency, and decision-making across departments.

2 Scope

2.1 IN-SCOPE

The UAT will cover the following aspects of the Comprehensive Database Management System (CDBMS):

• Functional Requirements:



- User authentication and Role-Based Access Control (RBAC) for roles (Faculty Entry Staff, Faculty Verifier, Store Keeper, Asset Manager, Head of Office, Viewer, Principal).
- \circ Faculty data entry, verification, and approval workflow: Faculty Entry Staff \Rightarrow Faculty Verifier \Rightarrow Head of Office \Rightarrow Principal.
- Asset data entry, management, and approval workflow: Store Keeper \rightarrow Asset Manager \rightarrow Head of Office \rightarrow Principal.
- o Real-time notifications and status updates during each stage of the workflow.
- Dynamic forms with file/document uploads (educational proof, item bill, warranty, signed PDFs, etc.).
- Dashboards for analytics and summaries (total assets/faculty, pending approvals, department-wise distribution).
- Advanced filters and search functionalities (by department, domain, status, date, etc.).
- o Report generation in PDF and Excel formats for faculty and asset records.
- o View-only access for the Viewer role to monitor all data without edit privileges.

• Non-Functional Requirements:

- System uptime (≥99% annually).
- o Response time (\leq 10 seconds for key operations).
- Scalability (50 concurrent users).
- Security (HTTPS/TLS 1.3, JWT authentication).
- Usability across devices (desktop, tablet, mobile) and browsers (Chrome, Firefox, Edge, Safari).

2.2 OUT-OF-SCOPE

The following are excluded from UAT:

- Testing of underlying server hardware or network infrastructure (assumed to be managed by CASFOS IT).
- Unit and integration testing (handled in earlier development phases).
- Performance testing beyond specified concurrent users (50 users) or data entry (100/day).



Testing on unsupported browsers or outdated OS versions.

3 Testing Strategy

3.1 TEST OBJECTIVES

The objectives of UAT are to:

- Verify that the system meets all functional requirements outlined in the Software Requirements Specification (SRS), including faculty and asset data submission, approval workflows, notifications, and reporting.
- Validate non-functional requirements such as usability, system responsiveness (≤10 seconds), scalability (≥50 concurrent users), and security controls (role-based access, file upload restrictions).
- Ensure intuitive usability across all user roles (Faculty Entry Staff, Faculty Verifier, Store Keeper, Asset Manager, Head of Office, Principal, Viewer) and compatibility across supported devices and modern web browsers.
- Confirm that the system improves operational efficiency and stakeholder satisfaction (target ≥90% based on UAT feedback forms).

3.2 TEST ASSUMPTIONS

- All UAT participants are familiar with basic system operations and possess general computer literacy.
- The UAT environment replicates the production stack: Ubuntu 22.04 LTS / Windows Server, MongoDB v7.x, Node.js v20.x, React v18+.
- Sample data including faculty and asset entries, uploaded documents, and signed PDFs will be preloaded or created during testing.
- Stable internet connectivity (≥10 Mbps) and browser compatibility (Chrome, Firefox, Edge) are ensured.
- Any bugs or issues raised during UAT will be tracked and resolved by the development team before system deployment.



3.3 DATA APPROACH

- Test Data: Synthetic data simulating real scenarios, including::
 - Faculty entries with diverse designations, departments, educational backgrounds, and uploaded credentials.
 - Asset entries of various categories (Permanent, Consumable), departments, and condition statuses.
 - Uploaded documents: photos, certificates, bills, signed PDFs (≤5 MB each).
 - Simulated workflows covering all roles and status transitions (e.g., pending, verified, rejected, approved).
- **User Accounts:** Individual test logins for each role (Faculty Entry Staff, Verifier, Store Keeper, etc.) will be provisioned with sample credentials.
- **Data Cleanup:** Upon UAT completion, all test data will be purged, and the database will be reset to ensure a clean slate for production deployment.

3.4 LEVEL OF TESTING

List the types of testing to be performed.

Test Type	Description	Responsible Parties
Functional Testing	Validates that all core features of the CDBMS function according to the SRS, including faculty and asset data entry, multi-level approval workflows (Faculty Entry → Verifier → HOO → Principal, Store Keeper → Asset Manager → HOO → Principal), file uploads (≤5 MB), real-time	UAT Team (Faculty Staff, Store Keeper, Asset Manager, HOO, Principal), QA Team



	notifications (≤1 minute), and report generation	
	(PDF/Excel ≤15 seconds).	
Non-Functional Testing	Tests system performance (response time ≤3 seconds), scalability (≥50 concurrent users), reliability (≥99% uptime), and security (JWT-based RBAC, file validations). Also includes crossplatform compatibility (desktop, tablet, mobile) and cross-browser support (Chrome, Firefox, Edge).	UAT Team, QA Team, Institution IT Support Team
Usability Testing	Assesses UI intuitiveness and user-friendliness across all roles. Tests interface navigation, ease of data entry, clarity of error/success toasts, responsiveness, and accessibility features. Success is measured by achieving ≥90% satisfaction in user feedback surveys.	UAT Team (Faculty Entry Staff, Store Keeper, Asset Manager, HOO, Principal, Viewer)

4 UAT Test Case Table

4.1 DEFECT IMPACT MATRIX

Defects found during the Testing should be categorized as below:

Severity	Impact
1 (Critical)	 Functionality is blocked and no testing can proceed Application/program/feature is unusable in the current state
2 (High)	 Functionality is not usable and there is no workaround but testing can proceed
3 (Medium)	Functionality issues but there is workaround for achieving the desired functionality



4 (Low)	•	Unclear error message or cosmetic error which has
		minimum impact on product use.

4.2 FUNCATIONAL TESTING

Test	Field	Test	Preconditio	Test Steps	Expected	Actual	Status	Comments
Case	Name	Scenario	ns		Result	Result		
ID								
				I asia Dasa				
				Login Page				
UAT_T	Username,	Verify	User account	1. Enter valid username,	Redirect to the			
C_FT_	Password,	login with	exists	password	corresponding			
001	Role	valid		2. Select correct role	dashboard			
		username,		3. Click Login				
		password,						
		and role						
		and						
UAT_T	Username	Invalid	No such	1. Enter invalid username	Show error:			
C_FT	(Invalid)	username	username	2. Enter valid password	"Invalid			
_002		with valid	exists	3. Select role	username or			
		password		4. Click Login	password"			
		and role						
UAT_T	Password	Invalid	User account	1. Enter valid username	Show error:			
C_FT_	(Invalid)	password	exists	2. Enter wrong password	"Invalid			
004		with valid		3. Select role	username or			
		username		4. Click Login	password"			
		and role						
UAT_T	Submit	Verify that	User has	1. Navigate to the login	Valid credentials			
C_FT_	Button	the submit	access to the	page.	redirect to the			
004		button logs	login page; test	2. Enter valid username and	dashboard;			
		in the user	user accounts	password, then click	invalid or blank			
		with valid	are set up	Submit.	credentials show			
		credentials		3. Enter invalid	an error message			
		and shows		username/password, then	(toast			
		an error for		click Submit.	notification)			
		invalid		4. Leave fields blank and				
		credentials		click Submit.				



<u> </u>	T	T	T	T	T	
			New Us	ser Registration		
UAT_T	Username	Validate	Page is loaded	Enter a valid username in	Username should	
C_FT_		username		the username field	be accepted	
001		field				
TIATE TO	D 1	X7 1* 1 .	D : 1 1 1	CIL 1 d	D 10 11	
UAT_T	Password	Validate	Page is loaded	Click the eye icon to toggle	Password field	
C_FT_		password		password visibility	toggles between	
002		visibility			'password' and	
UAT_T	Password	toggle Validate	Page is loaded	Enter a valid password in	'text' Password should	
C_FT_	rassword	password	r age is loaded	the password field	be masked	
003		entry		the password field	(unless visibility	
003		Chuy			is toggled)	
UAT_T	DOB	Validate	Page is loaded	Select a valid date from the	Date should be	
C_FT_		Date of	l age is rouge	calendar	selected and	
004		Birth field			displayed in	
					input	
UAT_T	Designation	Validate	Page is loaded	Enter designation in the	Designation is	
C_FT_		designation		input field	accepted	
005		field				
UAT_T	Phone No	Validate	Page is loaded	Enter valid phone number	Phone number is	
C_FT_		phone		(e.g., 10 digits)	accepted	
006		number				
		input				
UAT_T	Organization	Validate	Page is loaded	Enter organization name	Organization	
C_FT_		Organizatio			input is accepted	
007		n input				
UAT_T	Ministry	Validate	Page is loaded	Enter ministry name	Ministry input is	
C_FT_		ministry			accepted	
008		input				
UAT_T	Role	Select a	Page is loaded	Click on any role (e.g.,	Selected role is	
C_FT_	Selection	user role		"Asset Manager")	highlighted	
009		from the				
TIATE TO	0.1	list	411	4 E'11 11 1 1 2 1 2 1 1		
UAT_T	Submit	Successful	All required	1. Fill all required fields	User is	
C_FT_		form	fields filled	2.Click Register	redirected to	
009		submission	with valid		login page with	
			inputs		success	



UAT_T C_FT_ 010	Submit	Duplicate user registration	Username already exists	1.Enter an existing username and other valid data 2.Click Register	Message "User already exists"	
			Sto	re Keeper-Dashbo	ard	
UAT_T C_FT_ 001 UAT_T C_FT_ 002	Sidebar navigation Notification Icon	Verify that all sidebar links navigate to the correct pages Verify that clicking the notification bell displays recent notification s	User is logged in as a storekeeper At least one notification exists for the user	Click on each sidebar link (Home, Asset Store, Asset Issue, Asset Return, Asset Updation, Asset View) 2. Observe the page that loads 1.Click on the notification bell icon 2. Observe the notification panel	Each link directs to its respective page without errors Notification panel displays recent notifications with correct details	
				Asset Store		
UAT_T C_FT_ 001	Asset Type	Verify that the user can select an asset type (Permanent /Consumab le) in the Store/Recei pt Entry tab	User is logged in, Store/Receipt Entry tab is active	1. Navigate to the Store/Receipt Entry tab. 2. Click the "Asset Type" dropdown. 3. Select "Permanent". 4. Select "Consumable".	The dropdown displays "Permanent" and "Consumable" options. The selected value is updated in the form without errors.	
UAT_T C_FT_ 002	Asset Category	Verify that asset category options change based on asset type in the Store/Recei pt Entry tab	Asset Type is selected (e.g., Permanent)	1. Set Asset Type to "Permanent". 2. Check the "Asset Category" dropdown. 3. Set Asset Type to "Consumable". 4. Check the "Asset Category" dropdown again.	For "Permanent", categories like "Furniture", "Building", "Land" are shown. For "Consumable", categories like "Stationery", "IT" are shown.	



UAT_T C_FT_ 003	Add Item	Verify that EE can enter Verify that the user can add multiple items in the Store/Recei pt Entry tab or defer via the Update button	Store/Receipt Entry tab is active	1. Click the "Add Item" button. 2. Enter item details (e.g., Item Name: "Chair", Quantity: 5). 3. Click "Add Item" again. 4. Enter another item (e.g., Item Name: "Table", Quantity: 2).	New item fields are added dynamically each time "Add Item" is clicked. Both items are displayed in the form with correct details.		
UAT_T C_FT_ 004	Form Validation	Verify that form validation prevents submission with missing required fields in Store/Recei pt Entry	Store/Receipt Entry tab is active	Leave "Asset Type" and "Asset Category" empty. Click the "Submit" button.	An error message (via SweetAlert) is displayed listing missing fields (e.g., "Asset Type is required", "Asset Category is required"). The form is not submitted.		
UAT_T C_FT_ 005	Submit Store Entry	Verify that the user can successfull y submit a valid store entry	All required fields are filled, backend server is running	1. Set Asset Type to "Permanent". 2. Set Asset Category to "Furniture". 3. Add an item (e.g., Item Name: "Desk", Quantity: 10, Unit Price: 100). 4. Fill other required fields (e.g., Entry Date, Supplier). 5. Click "Submit".	A success message (via SweetAlert) is displayed: "Inventory saved!". The form resets, and the data is sent to the backend.		
UAT_T C_FT_ 006	File Upload	Verify that the user can upload a photo in the Store/Recei pt Entry tab	Store/Receipt Entry tab is active, valid image file (e.g., JPG) is available	1. Click the "Photo" file input. 2. Select a valid JPG file (<5MB). br> 3. Submit the form.	The file is uploaded successfully, and a preview URL is displayed. The form submission		



					includes the file data.		
UAT_T C_FT_ 007	Invalid File Upload	Verify that an invalid file type is rejected in the Store/Recei pt Entry tab	Store/Receipt Entry tab is active, invalid file (e.g., .txt) is available	Click the "Photo" file input. Select a .txt file. Attempt to submit the form.	An error message (via SweetAlert) is displayed: "Invalid File Type. Only JPG, PNG, and PDF are allowed". The file is not uploaded.		
UAT_T C_FT_ 008	Returned Assets Receipt	Verify that the user can generate and download a receipt for a returned asset	Returned Assets tab is active, returned assets are available in the database	Navigate to the Returned Assets tab. Select a returned asset from the list. Click the "Download Receipt" button.	A PDF receipt is generated and downloaded with correct asset details (e.g., Item Name, Return Date). The PDF is properly formatted.		
UAT_T C_FT_ 009	Upload Signed Receipt	Verify that the user can upload a signed receipt for a returned asset	Returned Assets tab is active, a valid PDF file is available	 Navigate to the Returned Assets tab. Select a returned asset. Click the "Upload Signed Receipt" file input. Select a valid PDF file. Submit the upload. 	The PDF is uploaded successfully, and a success message (via SweetAlert) is displayed. The backend updates the asset's receipt status.		
UAT_T C_FT_ 010	Serviced Asset Submission	Verify that the user can submit servicing details for an asset	Serviced/Maint enance tab is active, servicable items are available	1. Navigate to the Serviced/Maintenance tab. 2. Select an item from the "Select Servicable Item" dropdown. 3. Enter servicing details (e.g., Service Date, AMC From/To Dates). 4. Click "Submit".	A success message (via SweetAlert) is displayed: "Servicing details saved!". The form resets, and the data is		



					sent to the backend.		
UAT_T C_FT_ 011	Condemnatio n Submission	Verify that the user can submit condemnati on details for an asset	Condemnation tab is active, disposable items are available	1. Navigate to the Condemnation tab. 2. Select a disposable item. 3. Enter condemnation details (e.g., Condemnation Year, Reason). 4. Click "Submit".	A success message (via SweetAlert) is displayed: "Condemnation details saved!". The form resets, and the data is sent to the backend.		
UAT_T C_FT_ 012	Building Upgrade Addition	Verify that the user can add a building upgrade	Building Upgrade tab is active, building data is available	1. Navigate to the Building Upgrade tab. 2. Click "Add Building Upgrade". 3. Enter upgrade details (e.g., Year, Estimate, Execution Agency). 4. Click "Submit".	A new upgrade form is added dynamically. On submission, a success message (via SweetAlert) is displayed, and the data is saved to the backend.		
			Asset	Manager(for Appl	roval)		
UAT_T C_FT_ 001	Tab Navigation	Verify that the user can switch between tabs	User is logged in, Asset Approval page is loaded	1. Click on the "Purchase" tab. 2. Click on the "Issue" tab. 3. Click on the "Return" tab. 4. Repeat for all tabs (Exchange, Service, Disposal, Asset Updation, Building Upgradation, Building Maintenance).	The active tab updates correctly, and the corresponding table/content is displayed without errors. The UI reflects the active tab with highlighted styling.		
UAT_T C_FT_ 002	Purchased Assets Table	Verify that purchased assets are displayed in the Purchase tab	User is logged in, Purchase tab is active, purchased assets exist in the database	 Navigate to the Purchase tab. Observe the table. 	The table displays columns (Asset Type, Asset Category, Supplier Name, Date Purchased, Details, Action)		



					with correct data for each purchased asset.		
UAT_T C_FT_ 003	Approve Purchased Asset	Verify that the user can approve a purchased asset	Purchase tab is active, at least one purchased asset is available	 Navigate to the Purchase tab. Click the "Approve" button for a purchased asset. 	A success message (via SweetAlert) is displayed: "The Asset Entry has been Approved." The asset is removed from the table.		
UAT_T C_FT_ 004	Reject Purchased Asset	Verify that the user can reject a purchased asset with a remark	Purchase tab is active, at least one purchased asset is available	1. Navigate to the Purchase tab. 2. Click the "Reject" button for a purchased asset. 3. Enter a remark (e.g., "Invalid supplier details"). < 4. Click "Submit".	A success message (via SweetAlert) is displayed: "The Asset Entry has been rejected." The asset is removed from the table.		
UAT_T C_FT_ 005	View Purchased Asset Details	Verify that the user can view details of a purchased asset	Purchase tab is active, at least one purchased asset is available	Navigate to the Purchase tab. Click the "View" button for a purchased asset.	A popup appears displaying detailed asset information (e.g., Asset Type, Category, Supplier Name, Bill Photo). The "Close" button closes the popup.		
UAT_T C_FT_ 006	Return Assets Search	Verify that the user can search for return assets by item name	Return tab is active, return assets exist in the database	1. Navigate to the Return tab. 2. Enter a search term (e.g., "Chair") in the search input. 3. Wait for 300ms (debounce delay).	Only return assets matching the search term (case-insensitive) are displayed in card format. If no matches, a message like "No items found		



					matching 'Chair'" is shown.		
UAT_T C_FT_ 007	Change Return Asset Conditions	Verify that the user can change the condition of a return asset	Return tab is active, at least one return asset is available	1. Navigate to the Return tab. 2. Select a condition (e.g., "To Be Serviced") from the dropdown for an asset. 3. Confirm the change in the alert.	A success message (via SweetAlert) is displayed: "Condition changed to To Be Serviced. Entry staff notified." The condition is updated in the UI.		
UAT_T C_FT_ 008	Approve Return Asset	Verify that the user can approve a return asset	Return tab is active, at least one return asset is available	Navigate to the Return tab. Select a condition (e.g., "Good") for an asset. Click the "Approve" button.	A success message (via SweetAlert) is displayed: "The return has been approved as Good (Added to Stock)." The asset is removed from the list.		
UAT_T C_FT_ 009	Reject Return Asset	Verify that the user can reject a return asset with a remark	Return tab is active, at least one return asset is available	1. Navigate to the Return tab. 2. Click the "Reject" button for an asset. 3. Enter a remark (e.g., "Incorrect receipt"). 4. Click "Submit".	A success message (via SweetAlert) is displayed: "The return has been rejected and returned to the original location." The asset is removed from the list.		
UAT_T C_FT_ 010	Exchange Assets Approval	Verify that the user can approve an exchange asset	Exchange tab is active, at least one exchange asset is available	Navigate to the Exchange tab. Click the "Yes" (Approve) button for an exchange asset	A success message (via SweetAlert) is displayed: "The exchange has been approved		



	•	•	,	T		
					and quantity added to stock." The asset is removed from the table.	
UAT_T C_FT_ 011	Reject Exchange Asset	Verify that the user can reject an exchange asset	Exchange tab is active, at least one exchange asset is available	Navigate to the Exchange tab. Click the "No" (Reject) button for an exchange asset.	A success message (via SweetAlert) is displayed: "The exchange has been rejected and moved to disposal." The asset is removed from the table	
UAT_T C_FT_ 012	Service Assets Approval	Verify that the user can approve a service asset	Service tab is active, at least one service asset is available	Navigate to the Service tab. Click the "Approve" button for a service asset.	A success message (via SweetAlert) is displayed: "The service has been approved and moved to Serviced Assets." The asset is removed from the table	
UAT_T C_FT_ 013	Reject Service Asset	Verify that the user can reject a service asset with a remark	Service tab is active, at least one service asset is available	 Navigate to the Service tab. Click the "Reject" button for a service asset. Enter a remark (e.g., "Invalid service date"). Click "Submit". 	A success message (via SweetAlert) is displayed: "The service has been rejected and moved back to Returned." The asset is removed from the table.	
UAT_T C_FT_ 014	Disposal Assets	Verify that the user can dispose of an asset	Disposal tab is active, at least one disposal	Navigate to the Disposal tab. Click the "Dispose" button for a disposal asset.	A success message (via SweetAlert) is displayed: "The	



			asset is available		asset has been moved to Disposed Assets." The asset is removed from the table.		
UAT_T C_FT_ 015	Cancel Disposal	Verify that the user can cancel a disposal with a remark	Disposal tab is active, at least one disposal asset is available	 Navigate to the Disposal tab. Click the "Cancel" button for a disposal asset. Enter a remark 	A success message (via SweetAlert) is displayed: "The disposal has been cancelled and returned to Returned Permanent." The asset is removed from the table		
UAT_T C_FT_ 016	Issue Assets Approval	Verify that the user can approve an issued asset	Issue tab is active, at least one issued asset is available	Navigate to the Issue tab. Click the "Approve" button for an issued asset.	A success message (via SweetAlert) is displayed: "The issue has been approved and moved to Issued Assets." The asset is removed from the table.		
UAT_T C_FT_ 017	Reject Issue Asset	Verify that the user can reject an issued asset with a remark	Issue tab is active, at least one issued asset is available	1. Navigate to the Issue tab. 2. Click the "Reject" button for an issued asset. 3. Enter a remark (e.g., "Invalid recipient"). 4. Click "Submit".	A success message (via SweetAlert) is displayed: "The issue has been rejected." The asset is removed from the table		
UAT_T C_FT_ 018	Asset Updation Approval	Verify that the user can approve an	Asset Updation tab is active, at least one	Navigate to the Asset Updation tab. Click the "Approve" button for an update.	A success message (via SweetAlert) is displayed: "The		



	1						
		asset update	pending update is available		update has been approved and applied." The update is removed from the table.		
UAT_T C_FT_ 019	Reject Asset Update	Verify that the user can reject an asset update with a remark	Asset Updation tab is active, at least one pending update is available	1. Navigate to the Asset Updation tab. 2. Click the "Reject" button for an update. 3. Enter a remark (e.g., "Incorrect update data"). 4. Click "Submit".	A success message (via SweetAlert) is displayed: "The update has been rejected." The update is removed from the table.		
UAT_T C_FT_ 020	Building Upgradation Approval	Verify that the user can approve a building upgrade	Building Upgradation tab is active, at least one building upgrade is available	Navigate to the Building Upgradation tab. Click the "Approve" button for a building upgrade.	A success message (via SweetAlert) is displayed: "The building upgrade has been approved and added to the building record." The upgrade is removed from the table.		
UAT_T C_FT_ 021	Reject Building Upgrade	Verify that the user can reject a building upgrade with a remark	Building Upgradation tab is active, at least one building upgrade is available	Navigate to the Building Upgradation tab. Click the "Reject" button for a building upgrade. Enter a remark (e.g., "Invalid estimate"). Click "Submit".	A success message (via SweetAlert) is displayed: "The building upgrade has been rejected." The upgrade is removed from the table.		
UAT_T C_FT_ 022	Building Maintenance Approval	Verify that the user can approve a	Building Maintenance tab is active, at least one	Navigate to the Building Maintenance tab.	success message (via SweetAlert) is displayed: "The building		



		1 '1 1'		2 (1: 1 .1 .1		1	1	
		building maintenanc e entry	maintenance entry is available	2. Click the "Approve" button for a maintenance entry.	maintenance has been approved and saved." The entry is removed from the table.			
UAT_T C_FT_ 023	Reject Building Maintenance	Verify that the user can reject a building maintenanc e entry with a remark	Building Maintenance tab is active, at least one maintenance entry is available	1. Navigate to the Building Maintenance tab. 2. Click the "Reject" button for a maintenance entry. 3. Enter a remark (e.g., "Incomplete description"). 4. Click "Submit".	A success message (via SweetAlert) is displayed: "The maintenance has been rejected." The entry is removed from the table.			
UAT_T C_FT_ 024	View Building Maintenance Details	Verify that the user can view details of a building maintenanc e entry	Building Maintenance tab is active, at least one maintenance entry is available	Navigate to the Building Maintenance tab. Click the "View" button for a maintenance entry.	A popup appears displaying detailed maintenance information (e.g., Sub Category, Building No, Year, Cost). The "Close" button closes the popup.			
			Asset	t Issue(Store Kee	eper)			
UAT_T C_FT_ 001	Tab Navigation	Verify that the user can switch between Issue and Acknowled ge tabs	User is logged in, Asset Issue page is loaded	1. Click on the "Issue" tab. 2. Click on the "Acknowledge" tab. 3. Click back on the "Issue" tab.	The active tab updates correctly, and the corresponding content (Issue form or Acknowledge cards) is displayed without errors. The active tab is highlighted with blue styling.			



UAT_T	Username	verify that	User is on the	1. Select "Permanent" from	The selected		
C_FT_	(Create	the user	Issue tab	the Asset Type dropdown.	asset type is		
002	Form)	can select		2. Select "Consumable"	reflected in the		
		an asset		from the Asset Type	dropdown, and		
		type		dropdown.	the Asset		
					Category		
					dropdown		
					updates with the		
					corresponding		
					options (e.g.,		
					Furniture for		
					Permanent,		
					Stationery for		
					Consumable).		
UAT_T	Asset	Verify that	Asset Type is	1. Select "Ex:Furniture"	The selected		
C_FT_	Category	the user	selected (e.g.,	from the Asset Category	category is		
003	Selection	can select	Permanent)	dropdown.	reflected, and the		
		an asset			Item dropdown		
		category			is populated with		
					relevant store		
					items for the		
					selected		
					category.		
**************************************		77.10.1		1.01			
UAT_T	Item	Verify that	Asset Type and	1. Select an item (e.g.,	The selected		
C_FT_	Selection	the user	Category are	"Chair - Wooden - Office	item is reflected,		
004		can select	selected, store	Chair") from the Item	and the "In		
		an item	items are available	dropdown.	Stock" field		
			avanable		displays the available		
					quantity. For		
					Permanent		
					assets, available		
					item IDs are		
					displayed.		
					dispiayed.		
UAT_T	Add Issue	Verify that	Issue tab is	1. Click the "Add Issue"	A new issue item		
C_FT_	Item	the user	active	button.	section is added		
005		can add a			to the form with		
		new issue			fields for Issued		
		item			To, Quantity,		
					and (if		
					applicable)		
	1	1	1	l	rr/	<u> </u>	



UAT_T C_FT_ 006	Issue Item Details	Verify that the user can fill issue item details	Issue tab is active, at least one issue item is added	1. Select "faculty_chamber" from the Issued To dropdown. 2. Enter "5" in the Quantity field. 3. For Permanent assets, select 5 Item IDs. 4. For Issued To "name", enter Name (e.g., "John Doe"), Designation (e.g.,	Name, Designation, Location, and Item IDs. The issue item fields are updated correctly. For Permanent assets, the selected Item IDs are limited to the entered quantity.		
UAT_T C_FT_ 007	Select All Item IDs	Verify that the user can select all available Item IDs for a Permanent asset	Issue tab is active, Permanent asset selected, issue item added, Item IDs available	"Professor"), and Location (e.g., "Room 101"). 1. Add an issue item with Quantity set to 3. 2. Check the "Select All" checkbox for Item IDs.	All available Item IDs (up to the quantity, e.g., 3) are selected, excluding IDs used in other issue items.		
UAT_T C_FT_ 008	Submit Issue	Verify that the user can submit an issue and generate PDF receipts	Issue tab is active, valid issue details filled (Asset Type, Category, Item, at least one issue item with Issued To and Quantity)	1. Select Asset Type, Category, and Item. 2. Add an issue item with Issued To (e.g., "library"), Quantity (e.g., 2), and (for Permanent) select 2 Item IDs. 3. Click the "Submit" button.	A success message (via SweetAlert) is displayed: "All receipts generated and downloaded successfully!" PDF receipts are downloaded with correct details (Asset Type, Category, Item Name, Issued To, Quantity, etc.). The form		



					resets, and the page reloads.		
UAT_T C_FT_ 009	Submit Issue Validation	Verify validation for incomplete issue submission	Issue tab is active	1. Leave Item unselected and click "Submit". 2. Add an issue item but leave Issued To empty and click "Submit". 3. For Permanent assets, select fewer Item IDs than the quantity and click "Submit". 4. Enter a total quantity exceeding the in-stock amount and click "Submit".	Appropriate warning messages (via SweetAlert) are displayed: - "Please select an item and add at least one issue!"		
UAT_T C_FT_ 010	Edit Rejected Issue	Verify that the user can edit a rejected issue	User navigates to Asset Issue page with a rejectedId query parameter	1. Observe the page after loading with a rejectedId. 2. Update the issue details (e.g., change Quantity or Issued To). 3. Click "Submit".	A notification (via SweetAlert) is displayed: "Editing Rejected Issue." The form is pre- filled with the rejected issue's details. After submission, a success message is shown, the rejected issue is deleted from the backend, and the form resets.		
UAT_T C_FT_ 011	Acknowledg e Tab Display	Verify that the Acknowled ge tab displays temporary issues	Acknowledge tab is active, temporary issues exist in the database	Navigate to the Acknowledge tab. Observe the displayed cards.	Cards are displayed for each temporary issue, showing details (Item Name, Asset Type, Category, Sub Category, Description, Issued To, Location,		



UAT_T C_FT_ 012	Download Receipt	Verify that the user can download the receipt PDF for a temporary issue	Acknowledge tab is active, at least one temporary issue is available	1. Navigate to the Acknowledge tab. 2. Click the "Download Receipt" link for a temporary issue.	Quantity, Item IDs) and a "Download Receipt" link. The status is shown as "Pending" or "Acknowledged" The PDF receipt is downloaded, containing correct issue details (Asset Type, Category, Item Name, Issued To, Quantity, etc.).	
UAT_T C_FT_ 013	Upload Signed Receipt	Verify that the user can upload a signed receipt for a temporary issue	Acknowledge tab is active, at least one temporary issue with "Pending" status is available	1. Navigate to the Acknowledge tab. 2. Select a PDF file (e.g., signed_receipt.pdf) using the file input for a temporary issue. 3. Click the "Done" button.	The file is uploaded, and a success message (via SweetAlert) is displayed: "Receipt acknowledged!" The issue's status changes to "Acknowledged, " and a "View Signed Receipt".	
UAT_T C_FT_ 014	Upload Invalid File	Verify validation for uploading an invalid file type	Acknowledge tab is active, at least one temporary issue with "Pending" status is available	 Navigate to the Acknowledge tab. Select an invalid file (e.g., .txt file) using the file input. Observe the result. 	An error message (via SweetAlert) is displayed: "Only PDF, JPEG, and PNG files are allowed!" The file input is cleared, and no file is selected.	
UAT_T C_FT_ 015	Acknowledg e Without File	Verify validation for	Acknowledge tab is active, at least one	1. Navigate to the Acknowledge tab.	An error message (via SweetAlert) is	



		acknowled ging without uploading a file	temporary issue with "Pending" status is available	2. Click the "Done" button for a temporary issue without selecting a file.	displayed: "Please upload a signed receipt first!" The issue remains in "Pending" status.	
UAT_T C_FT_ 015	View Signed Receipt	Verify that the user can view a signed receipt for an acknowled ged issue	Acknowledge tab is active, at least one temporary issue with "Acknowledge d" status is available	Navigate to the Acknowledge tab. Click the "View Signed Receipt" link for an acknowledged issue.	The signed receipt (PDF, JPEG, or PNG) opens in a new tab or is downloaded, depending on the browser settings.	
			Asset	t Return(Store Kee	eper)	
UAT_T C_FT_ 001	Asset Type Selection	Verify that the user can select Permanent or Consumabl e asset type	User is logged in, Asset Return page is loaded	Select "Permanent" from the Asset Type dropdown. Select "Consumable" from the Asset Type dropdown.	The Asset Type updates, and the Asset Category dropdown populates with the corresponding options (e.g., Furniture for Permanent, Stationery for Consumable).	
UAT_T C_FT_ 002	Asset Category Selection	Verify that the user can select an asset category	Asset Type is selected	Select an Asset Type (e.g., Permanent). Select a category (e.g., Furniture) from the Asset Category dropdown.	The Asset Category updates, and the Item dropdown populates with relevant items based on the selected type and category.	



UAT_T C_FT_ 003	Item Selection	Verify that the user can select an item	Asset Type and Category are selected	1. Select an item (e.g., "Chair - Wooden - Office Chair") from the Item dropdown.	The selected item is displayed, and the Location dropdown populates with issued locations for the selected item.		
UAT_T C_FT_ 004	Location Selection	Verify that the user can select a location	Asset Type, Category, and Item are selected, issued locations exist	Select a location (e.g., "library") from the Location dropdown.	The selected location is displayed, the Issued Quantity field shows the quantity issued to that location, and (for Permanent assets) the Return IDs section populates with available Item IDs.		
UAT_T C_FT_ 005	Issued Quantity Display	Verify that the Issued Quantity is displayed correctly	Asset Type, Category, Item, and Location are selected	Select a location with issued assets. Observe the Issued Quantity field.	The Issued Quantity field displays the correct number of items issued to the selected location (e.g., "5" for 5 chairs issued to the library).		



UAT_T C_FT_ 006	Return Quantity Input	Verify that the user can input a return quantity	Asset Type, Category, Item, and Location are selected	1. Enter "3" in the Return Quantity field.	The Return Quantity updates to Ex:3. For Permanent assets, the Return IDs selection is limited to 3 IDs.		
UAT_T C_FT_ 007	Select Return IDs	Verify that the user can select Item IDs for a Permanent asset return	Asset Type is Permanent, Category, Item, and Location are selected, Return Quantity is set	1. Set Return Quantity to 2. 2. Check two Item IDs (e.g., "ID001", "ID002") in the Return IDs section.	The selected Item IDs are highlighted, and the count of selected IDs matches the Return Quantity (2). Additional IDs are disabled if the quantity is reached.		
UAT_T C_FT_ 008	Select All Return IDs	Verify that the user can select all available Item IDs for a Permanent asset	Asset Type is Permanent, Category, Item, and Location are selected, Return Quantity is set	Set Return Quantity to 3. Check the "Select All" checkbox in the Return IDs section.	All available Item IDs (up to the Return Quantity, e.g., 3) are selected. If fewer IDs are available, only those are selected.		



UAT_T C_FT_ 009	Submit Return	Verify that the user can submit a return request	Asset Type, Category, Item, Location, and Return Quantity are set; for Permanent assets, correct number of Item IDs are selected	1. Select Asset Type (e.g., Permanent), Category (e.g., Furniture), Item (e.g., "Chair - Wooden - Office Chair"), and Location (e.g., "library"). 2. Set Return Quantity to 2. 3. For Permanent assets, select 2 Item IDs. 4. Click the "Submit" button.	A success message (via SweetAlert) is displayed: "Items returned successfully!" The form resets, and the backend is updated with the return details.		
UAT_T C_FT_ 010	Submit Return Validation	Verify validation for incomplete or invalid return submission	Asset Return page is loaded	1. Leave Item unselected and click "Submit". 2. Select Item and Location but set Return Quantity to 0 and click "Submit". 3. Set Return Quantity higher than Issued Quantity and click "Submit". 4. For Permanent assets, select fewer Item IDs than Return Quantity and click "Submit".	Appropriate warning messages (via SweetAlert) are displayed: - "Please fill all fields and ensure return quantity is greater than 0!" - "Return quantity cannot exceed issued quantity!" - "Selected IDs must match return quantity for Permanent assets!"		
UAT_T C_FT_ 011	Edit Rejected Return	Verify that the user can edit a rejected return	User navigates to Asset Return page with a rejectedId	Observe the page after loading with a rejectedId. Update the return details (e.g., change Return Quantity or select different	A notification (via SweetAlert) is displayed: "Editing Rejected Return." The		



Item IDs). form is pre-filled query 3. Click "Submit". with the rejected parameter return's details (Asset Type, Category, Item, Location, Return Quantity, Return IDs). After submission, a success message is shown, the rejected return is deleted from the backend, and the form resets. **Asset view(Storekeeper/Asset manager)** 1. Click on the "Permanent UAT 0 Verify that User is logged The active tab Type Navigation the user in, Asset Assets" tab updates 01 can switch Updation page 2. Click on the correctly, and the between is loaded "Consumable Assets" tab corresponding Permanent, 3. Click on the "Condition content Consumabl Change" tab (Permanent e, and assets. Condition Consumable Change assets, or tabs Condition Change) is displayed. The UI reflects the active tab with highlighted styling UAT 0 Asset Card Permanent and 1. Navigate to the Asset cards are Display Verify that Consumable "Permanent Assets" tab displayed with 02 tabs are 2. Navigate to the details (Item asset cards "Consumable Assets" tab Name, Category, accessible, are asset exist in Sub Category, displayed Purchase Date, the database for Supplier, Bill Permanent No, Quantity). and Consumabl e tabs

Asset Updation(Asset Manager)



UAT_0 01	Search Returned Assets	Verify that the search functionalit y filters returned assets by item name	User is logged in, Condition Change tab is active, returned assets are available	 Navigate to the Condition Change tab. Enter "Table" in the search input. Wait for 300ms. Observe the asset cards. 	Only returned assets with "Table" in their item name should be displayed, sorted alphabetically.		
UAT_0 02	Condition Change	Verify that the condition of a permanent or consumable asset can be changed	User is logged in, Condition Change tab is active, permanent or consumable assets are displayed	 Navigate to the Condition Change tab. Select "To Be Serviced" from the condition dropdown for a permanent asset. Confirm the action in the alert. Observe the asset card and alert. 	A confirmation alert should appear, and upon confirmation, a success alert should show ("Condition changed to To Be Serviced"). The asset card should reflect the new condition.		

	ASSET UPDATION (STORE KEEPER)											
UAT_ 001	Tab Navigation	Verify that the user can switch between Permanent, Consumable.	User is logged in, Asset Updation page is loaded	Click on the "Permanent Assets" tab. Click on the "Consumable Assets" tab.	The active tab updates correctly, and the corresponding content (Permanent assets, Consumable assets, or Returned assets) is displayed. The UI reflects the active tab							



					with highlighted styling.		
UAT_ 002	Asset Card Display	Verify that asset cards are displayed for Permanent and Consumable tabs	Permanent and Consumable tabs are accessible, assets exist in the database	1. Navigate to the "Permanent Assets" tab. 2. Navigate to the "Consumable Assets" tab.	Asset cards are displayed with details (Item Name, Category, Sub Category, Purchase Date, Supplier, Bill No, Item IDs/Quantity). Each card includes "View Details" and "Edit" buttons (or "Update Under Approval" badge if pending).		



UAT_ 003	Search Assets	Verify that the user can search assets by item name	Permanent or Consumable tab is active, assets are available	1. Navigate to the "Permanent Assets" tab. 2. Enter "Chair" in the search input. 3. Navigate to the "Consumable Assets" tab. 4. Enter "Pen" in the search input.	Only assets matching the search term (e.g., "Chair" or "Pen") are displayed. If no matches, a message like "No permanent assets found matching 'Chair" is shown. Search is case- insensitive and debounced for performance.		
UAT_ 004	Sort Assets	Verify that assets are sorted by item name	Permanent or Consumable tab is active, multiple assets are available	1. Navigate to the "Permanent Assets" tab. 2. Observe the order of asset cards. 3. Navigate to the "Consumable Assets" tab. 4. Observe the order of asset cards.	Asset cards are sorted alphabetically by item name (e.g., "Chair" before "Table"). Sorting is consistent across searches.		



UAT_ 005	View Asset Details	Verify that the user can view detailed asset information in a popup	Permanent or Consumable tab is active, assets are available	1. Navigate to the "Permanent Assets" tab. 2. Click "View Details" on an asset card (e.g., "Chair").	A popup opens displaying detailed asset information (Asset Type, Category, Entry Date, Purchase Date, Source, Mode of Purchase, Supplier, Bill No, Received By, Items with Name, Sub Category, Description, Quantity, Prices, AMC/Warranty details, and photos). A "Close" button is available.		
UAT_ 006	Edit Asset	Verify that the user can enter edit mode for an asset	Permanent or Consumable tab is active, asset has no pending update	1. Navigate to the "Permanent Assets" tab. 2. Click "Edit" on an asset card (e.g., "Chair").	The popup switches to edit mode, displaying input fields for General Information (Asset Category, Entry Date, Purchase Date, Source, Mode of Purchase, Supplier Name/Address, Bill No, Received By, Bill Photo) and Item details (Name, Sub Category, Description, Quantity, Unit Price, Total		



					Price, AMC/Warranty info, photos).		
UAT_ 007	Update Asset Fields	Verify that the user can update asset fields	Edit mode is active for an asset	1. In edit mode, change the Supplier Name to "New Supplier". 2. Update an item's Quantity Received to "10". 3. Change the AMC From Date to "2025-01-01".	The input fields update correctly with the new values (e.g., Supplier Name: "New Supplier", Quantity Received: "10", AMC From Date: "2025-01-01").		



UAT_ 008	File Upload	Verify that the user can upload photos (Bill, Item, Warranty, AMC)	Edit mode is active for an asset	1. In edit mode, upload a JPEG file for the Bill Photo. 2. Upload a PNG file for an item's Item Photo. 3. Upload a PDF file for an item's Warranty Photo.	The files are uploaded successfully, and image previews are displayed for each uploaded file (Bill Photo, Item Photo, Warranty Photo). A "View Full Image" link is available for each preview.		
UAT_ 009	Save Changes	Verify that the user can submit asset changes for approval	Edit mode is active, asset fields are updated	In edit mode, update the Supplier Name and an item's Quantity Received. Click "Save Changes".	A success message (via SweetAlert) is displayed: "Asset update submitted for approval." The popup closes, and the asset card shows an "Update Under Approval" badge. The backend is updated with the pending update.		
UAT_ 010	Cancel Edit	Verify that the user can cancel editing an asset	Edit mode is active	1. In edit mode, make changes to fields (e.g., Supplier Name). 2. Click "Cancel".	The popup closes, and no changes are saved. The asset card remains unchanged, and no pending update is created.		



UAT_ 011	Pending Update Badge	Verify that assets with pending updates display a badge	An asset has a pending update in the backend	Navigate to the "Permanent Assets" tab. Identify an asset with a pending update.	The asset card displays an "Update Under Approval" badge instead of an "Edit" button.		
UAT_ 012	Edit Rejected Update	Verify that the user can edit a rejected update	User navigates to Asset Updation page with rejectedId and assetType query parameters (e.g., /storekeeperass etupdation?user name=Guest&r ejectedId=123 &assetType=Pe rmanent)	1. Observe the page after loading with a rejectedId. 2. Update the Supplier Name in the edit popup. 3. Click "Save Changes".	A notification (via SweetAlert) is displayed: "Editing Rejected Update." The correct tab (Permanent/Con sumable) is active, and the popup is pre- filled with the rejected update's data. After submission, a success message is shown, the rejected update is deleted from the backend, and the popup closes.		
UAT_ 016	Search Returned Assets	Verify that the user can search returned assets by item name	Condition Change tab is active, returned assets are available	Navigate to the "Condition Change" tab. Enter "Chair" in the search input.	Only returned assets matching the search term (e.g., "Chair") are displayed. If no matches, a message like "No returned assets found matching 'Chair'" is shown. Search is caseinsensitive and debounced.		



UAT View Verify that the Condition 1. Navigate to the "Condition A popup opens 017 user can view Change" tab. displaying Returned Change tab is 2. Click "View Details" on a details of a detailed Asset active, a Details returned asset returned asset returned asset card (e.g., information is available "Chair"). (Asset Type, Category, Item Name, Sub Category, Description, Location, Item ID/Quantity, Status, Remark, Receipt/Signed PDF links). A "Close" button is available. Verify that the UAT Sidebar 1. Click the "Home" link in User is logged Each link sidebar navigates to the 018 Navigation in, Asset the sidebar. navigation Updation page 2. Click the "Asset Store" correct page: links work is loaded link. - Home: correctly 3. Click the "Asset Issue" /storekeeperdas link. hboard 4. Click the "Asset Return" - Asset Store: /assetstore link. 5. Click the "Asset View" - Asset Issue: link. /assetissue 6. Click the "Logout" link. - Asset Return: /assetreturn - Asset View: /viewasset - Logout: /. The username is preserved in the URL. Verify that the UAT_ Username User is logged 1. Observe the top-right The username 019 Display username is corner of the navigation bar. in, Asset (passed via displayed Updation page query parameter correctly in the is loaded or "Guest") is navigation bar displayed next to a user icon.



UAT_ 020	Image Preview and Link	Verify that uploaded image previews and links work correctly	Edit mode is active, an image (e.g., Bill Photo) is uploaded	1. In edit mode, upload a JPEG file for the Bill Photo. 2. Observe the preview. 3. Click the "View Full Image" link.	The uploaded image is displayed as a preview (300x150px, contained fit). Clicking "View Full Image" opens the full image in a new				
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HEAD OF OFFICE(HOO) ASSET D	ISPOSAL APPROVAL

tab.

Test Case ID	Test Field Name	Test Scenario	Precondition s	Test Steps	Expected Result	Actual Result s	Stat us	Comment s
UAT_00_ 1	Tab Navigatio n	Verify that the user can navigate to Asset Approval page	User is logged in	1. Click on the "Asset Approval" tab from the sidebar	The active tab updates correctly, and the Asset Approval page is displayed with highlighted styling	4.3	4.4	4.5
UAT_00_ 2	Data Display	Verify that waiting assets are displayed in the table	Waiting assets data exists	1. Navigate to Asset Approval page2. Check table	Table displays waiting assets with columns for Asset Type, Asset Category, Item Name, Returned From, Details, and Action	4.6	4.7	4.8



UAT_00_ 3	View Details	Verify that asset details popup displays correctly	Waiting assets data exists	1. Click "View" button on an asset row	Popup opens with detailed asset information including links to Receipt PDF and Signed Receipt	4.9	4.10	4.11
UAT_00_ 4	Approve Action	Verify that an asset can be approved successfully	Waiting assets data exists	Click "Approve" button on an asset row2. Wait for response	Asset is removed from table with success popup "Asset approved by HOO"	4.12	4.13	4.14
UAT_00_ 5	Reject Action	Verify that an asset can be rejected with remarks	Waiting assets data exists	Enter rejection remarks2. Click "Reject" button. Wait for response	Asset is removed from table with info popup "Asset rejection notified to entry staff"	4.15	4.16	4.17
UAT_00_ 6	Error Handling	Verify that errors are handled during approval	Network error or server failure	1. Trigger an approval with network error2. Check response	Error popup appears with "Failed to approve asset" message	4.18	4.19	4.20
UAT_00_ 7	Error Handling	Verify that errors are handled during rejection	Network error or server failure	1. Trigger a rejection with network error2. Check response	Error popup appears with "Failed to reject asset" message	4.21	4.22	4.23



UAT 00 No Data Verify that no No waiting Table displays 4.25 1. Navigate to Asset 4.24 Display data message assets data Approval page2. Check table "No assets is displayed exists awaiting approval" message across all columns **FACULTY ENTRY STAFF** Faculty Validate Page is loaded 1. Select "Internal" from the UAT_TC Selected faculty 4.27 4.28 4.29 FE 001 Type Faculty Type Faculty Type dropdown type is displayed selection 2. Select "External" from the in the input field Faculty Type dropdown 3. Select "Contract" from the Faculty Type dropdown UAT TC Name Validate Page is loaded 1. Enter a valid name (e.g., Name is accepted 4.31 4.32 4.30 _FE_002 Name field "S Akash Aravind") and displayed in the input field UAT_TC Cadre Validate 1. Enter a valid cadre (e.g., Cadre is accepted Page is loaded 4.33 4.34 4.35 _FE_003 Cadre field "Professor") and displayed in the input field UAT TC Year of Validate Year Page is loaded Year is accepted 1. Enter a valid year (e.g., 4.36 4.37 4.38 _FE_004 "2023") Allotment of Allotment and displayed in field the input field UAT TC Mobile Validate Mobile number is Page is loaded . Enter a valid 10-digit 4.40 4.41 4.39 _FE_005 Number Mobile mobile number (e.g., accepted and Number input "0701069599") displayed in the input field UAT TC Communi Validate Page is loaded 1. Enter a valid address (e.g., Address is 4.42 4.43 4.44 FE 006 cation Communicatio "P.S.G College of accepted and Address



		n Address field		Technology Avinashi road Coimbatore")	displayed in the input field			
UAT_TC _FE_007	Permanent Address	Validate Permanent Address field	Page is loaded	Enter a valid address (e.g., "P.S.G College of Technology Avinashi road Coimbatore")	Address is accepted and displayed in the input field	4.45	4.46	4.47
UAT_TC _FE_008	Email Address	Validate Email Address field	Page is loaded	1. Enter a valid email (e.g., "22202@pstech.ac.in")	Email is accepted and displayed in the input field	4.48	4.49	4.50
UAT_TC _FE_009	Photograp h	Validate Photograph upload	Page is loaded	Upload a file less than S0KB Upload a file greater than S0KB	File less than 50KB is accepted; file greater than 50KB shows an error	4.51	4.52	4.53
UAT_TC _FE_010	Status	Validate Status selection	Page is loaded	Select a status from the dropdown	Selected status is displayed in the input field	4.54	4.55	4.56
UAT_TC _FE_011	Name of the Institution	Validate Institution field	Page is loaded	Enter a valid institution name (e.g., "College/University")	Institution name is accepted and displayed in the input field	4.57	4.58	4.59
UAT_TC _FE_012	Major Domain 1	Validate Major Domain selection	Page is loaded	Select a major domain from the dropdown	Selected major domain is displayed in the input field	4.60	4.61	4.62
UAT_TC _FE_013	Areas of Expertise	Validate Areas of Expertise field	Page is loaded	1. Enter areas of expertise (e.g., "Machine Learning")	Areas of expertise are accepted and	4.63	4.64	4.65



					displayed in the input field			
UAT_TC _FE_014	Awards Received	Validate Awards Received field	Page is loaded	1. Enter awards received (e.g., "Best Teacher 2022")	Awards are accepted and displayed in the input field	4.66	4.67	4.68
UAT_TC _FE_015	Submit	Validate successful form submission	All required fields filled with valid inputs	Fill all required fields Click Save	User is redirected to the dashboard with a success message	4.69	4.70	4.71
UAT_TC _FE_016	Submit	Validate submission with missing required fields	Page is loaded	Leave required fields (e.g., Name, Mobile Number) blank Click Save	Error message is displayed for missing required fields	4.72	4.73	4.74

PRINCIPAL FACULTY UPDATION(PRINCIPAL)											
Test Case ID	Field Name	Test Scenario	Preconditio ns	Test Steps	Expected Result	Actual Result	Statu s	Comment s			
UAT_PF U_001	Tab Navigation	Verify that the user can switch between tabs	User is logged in, Faculty Updation page is loaded	1. Click on the "Faculty Updation" tab in the sidebar	The active tab updates correctly, and the corresponding content is displayed. The UI reflects the active tab with highlighted styling.						



UAT_PF U_002	Faculty Filter	Verify that filters apply correctly to display faculty data	User is logged in, Faculty Updation page is loaded	1. Enter a valid name in the "Name" filter 2. Click outside the input or wait for autoapply 3. Enter a valid email in the "Email" filter 4. Select a faculty type from "Faculty Type" dropdown	Filtered faculty data is displayed in the table matching the filter criteria. Total No of Faculties updates accordingly.		
UAT_PF U_003	Clear Filter	Verify that clearing filters resets the faculty data	User is logged in, filters are applied, Faculty Updation page is loaded	1. Click the "Clear Filter" button	All filters are cleared, and the full list of faculty data is displayed. Total No of Faculties reflects the total count.		
UAT_PF U_004	View Details	Verify that faculty details are displayed in a popup	User is logged in, faculty data is loaded in the table	1. Click the "View" button for a faculty record	A popup displays detailed faculty information including name, photograph, faculty type, etc.		
UAT_PF U_005	Update Details	Verify that update navigation works	User is logged in, faculty data is loaded in the table	Click the "Update" button for a faculty record	User is navigated to the update faculty entry page with the selected faculty data pre-filled.		
UAT_PF U_006	Add Conduct	Verify that add conduct navigation works	User is logged in, faculty data is loaded in the table	1. Click the "Add Conduct" button for a faculty record	User is navigated to the add conduct page for the selected faculty.		



UAT_PF U_007	Notify Faculty	Verify that faculty notificatio n works	User is logged in, faculty data is loaded in the table	1. Click the "Notify" button for a faculty record 2. Enter remarks in the notification popup 3. Click "Submit"	A notification popup appears, and after submission, the status updates to "Notified". The faculty is removed from the table.		
UAT_PF U_008	Delete Faculty	Verify that faculty deletion works	User is logged in, faculty data is loaded in the table	1. Click the "Delete" button for a faculty record 2. Confirm deletion in the confirmation popup	A confirmation popup appears, and after confirmation, the status updates to "Deleted". The faculty is removed from the table.		
UAT_PF U_009	Cancel Delete	Verify that cancel delete works	User is logged in, faculty data is loaded in the table, delete confirmation is triggered	1. Click the "Delete" button for a faculty record 2. Click "Cancel" in the confirmation popup	The confirmation popup closes, and the faculty record remains in the table.		
UAT_PF U_010	No Matching Records	Verify message for no matching records	User is logged in, Faculty Updation page is loaded	1. Apply filters with no matching data (e.g., invalid name)	A message "No matching records found" is displayed in red.		



ADD CONCUCT(PRINCIPAL)

Test Case ID	Test Field Name	Test Scenario	Preconditions	Test Steps	Expected Result	Actual Results	Status	Comments
UAT_00 _1	Tab Navigation	Verify that the user can navigate to Faculty Updation page	User is logged in	1. Click on the "Faculty Updation" tab from the sidebar	The active tab updates correctly, and the Faculty Updation page is displayed with highlighted styling			
UAT_00 _2	Form Display	Verify that the faculty conduct form is displayed with prefilled data	Faculty data exists in the database, user is on Add Conduct page	1. Navigate to the Add Conduct page for a specific facultyId br>2. Verify form fields	Form displays faculty name (disabled), conduct dropdown, and remarks input with prefilled data from the database			



UAT_00 _3	Form Submission	Verify that the conduct can be updated successfully	User is on Add Conduct page with valid input	Select a conduct from dropdown Enter remarks Click Submit button	On successful submission, a success popup appears, and the page navigates back to Faculty Updation after 1.5 seconds		
UAT_00 _4	Error Handling	Verify that errors are handled during form submission	User is on Add Conduct page with invalid or failed API call	Submit form with invalid data or trigger API failure Check response	An error popup appears with appropriate message, and "Failed to Save" status is displayed		



HOO FACULTY UPDATION (HOO)

Test Case ID	Test Field Name	Test Scenario	Preconditions	Test Steps	Expected Result	Actual Results	Status	Comment s
UAT_00_ 1	Tab Navigatio n	Verify that the user can navigate to Faculty Updation page	User is logged in	Click on the "Faculty Updation" tab from the sidebar	The active tab updates correctly, and the Faculty Updation page is displayed with highlighted styling			
UAT_00_ 2	Filter Display	Verify that the filter form is displayed with all fields	User is on Faculty Updation page	Navigate to Faculty Updation page2. Check filter section	Filter form displays fields for Faculty Type, Name, Email, Year of Allotment, Status, Modules Handled, Major Domains, Minor Domains, Areas of Expertise, Institution, and Mobile Number			



UAT_00_ 3	Filter Apply	Verify that applying filters retrieves correct faculty data	Faculty data exists in the database	1. Enter filter criteria (e.g., Name: "John")2. Apply filter	Table displays filtered faculty data matching the criteria, total faculties updated, and no error message if data exists		
UAT_00_ 4	Filter Clear	Verify that clearing filters resets the table	Filters are applied	1. Apply a filter2. Click "Clear Filter" button	All filter fields are cleared, table shows all faculty data, and total faculties reflects unfiltered count		
UAT_00_ 5	View Details	Verify that faculty details popup displays correctly	Faculty data exists in the table	Click "View" button on a faculty row	Popup opens with detailed faculty information including photograph and nested data		



UAT_00_ 6	Update Navigatio n	Verify that update navigation works	Faculty data exists in the table	Click "Update" button on a faculty row	User is navigated to the update page with prefilled faculty data		
UAT_00_ 7	Delete Confirmati on	Verify that delete action prompts confirmatio n	Faculty data exists in the table	Click "Delete" button on a faculty row	A confirmatio n popup appears asking to confirm deletion		
UAT_00_ 8	Delete Success	Verify that faculty is deleted successfully	Faculty data exists in the table	1. Confirm deletion in popup	Faculty is removed from table, success popup appears, and total faculties decreases		
UAT_00_ 9	Delete Failure	Verify that errors are handled during deletion	Faculty data exists in the table	1. Trigger a deletion failure (e.g., network error)2. Confirm deletion	Error popup appears with appropriate message, and "Failed to Delete" status is displayed		



PRINCIPAL FACULTY VIEW (PRINCIPAL)

Test Case ID	Test Field Name	Test Scenario	Precondition s	Test Steps	Expected Result	Actua l Result s	Sta tus	Comm ents
UAT_00_ 1	Tab Navigation	Verify that the user can navigate to Faculty View page	User is logged in	1. Click on the "Faculty View" tab from the sidebar	The active tab updates correctly, and the Faculty View page is displayed with highlighted styling			
UAT_00_ 2	Filter Display	Verify that the filter form is displayed with all fields	User is on Faculty View page	1. Navigate to Faculty View page2. Check filter section	Filter form displays fields for Faculty Type, Name, Year of Allotment, Email, Status, Modules Handled, Major Domains, Minor Domains, Areas of Expertise, Institution, Mobile Number, and Domain Knowledge			
UAT_00_ 3	Filter Apply	Verify that applying filters retrieves correct faculty data	Faculty data exists in the database	1. Enter filter criteria (e.g., Name: "John")2. Apply filter (via state change)	Table displays filtered faculty data matching the criteria, and no error message if data exists			



UAT_00_ 4	Filter Clear	Verify that clearing filters resets the table	Filters are applied	1. Apply a filter2. Click "Clear Filter" button	All filter fields are cleared, table shows all faculty data, and message is cleared		
UAT_00_ 5	View Details	Verify that faculty details popup displays correctly	Faculty data exists in the table	1. Click "View" button on a faculty row	Popup opens with detailed faculty information including photograph and nested data		
UAT_00_ 6	Error Handling	Verify that errors are handled when no data is found	User applies invalid or no filters	Apply filter with no matching data2. Check response	Message "No matching records found" is displayed, and table is empty		



UPDATE FACULTY ENTRY HOO(HOO)											
Test Case	Test Field Name	Test Scenario	Preconditions	Test Steps	Expected Result	Act ual Res ults	Stat us	Comment s			
UAT_00_1	Tab Navigation	Verify that the user can navigate to Faculty Updation page	User is logged in	1. Click on the "Faculty Updation" tab from the sidebar	The active tab updates correctly, and the Faculty Updation page is displayed with highlighted styling						
UAT_00_2	Form Display	Verify that the update form is displayed with prefilled data	Faculty data exists in the state	1. Navigate to UpdateFacultyEntr yHoo page with faculty data2. Check form fields	Form displays prefilled data based on faculty type (Internal, External, or Contract) with appropriate fields						
UAT_00_3	Domain Expertise	Verify that domain expertise can be added and removed	User is on UpdateFacultyEnt ryHoo page	1. Click "Add Domain Expertise"2. Select Major and Minor Domains3. Click "Remove" on an entry	New domain expertise fields are added, selections are saved, and removal deletes the entry						



UAT_00_4	Nested Fields	Verify that nested fields (e.g., Publication s) can be added and removed	User is on UpdateFacultyEnt ryHoo page	1. Click "Add Publication"2. Fill publication details3. Click "Remove"	New publication fields are added with input options, and removal deletes the entry		
UAT_00_5	Form Submission	Verify that the faculty data can be updated successfull y	Valid form data entered	1. Fill and submit the form2. Check response	On success, "Saved" status appears with success popup; on failure, "Failed to Save" with error popup		
UAT_00_6	Validation	Verify that form submission validates faculty type	Faculty type not selected	1. Submit form without selecting faculty type	Warning popup appears with "Please select a faculty type" message		
UAT_00_7	File Upload	Verify that photograph file can be uploaded	User uploads a valid image file	1. Upload an image file in the photograph field2. Submit form	Photograph is successfully uploaded and included in the form data		



FACULTY VERIFY (FACULTY VERIFIER)

Test Case ID	Test Field Name	Test Scenario	Precondition s	Test Steps	Expected Result	Actu al Resul ts	Stat us	Comme nts
UAT_00_1	Tab Navigation	Verify that the user can navigate to Faculty Verify page	User is logged in	1. Click on the "Faculty Verify" tab from the sidebar	The active tab updates correctly, and the Faculty Verify page is displayed with highlighted styling			
UAT_00_2	Filter Display	Verify that the filter form is displayed with all fields	User is on Faculty Verify page	1. Navigate to Faculty Verify page2. Check filter section	Filter form displays fields for Faculty Type, Name, Year of Allotment, Email, Status, Modules Handled, Major Domains, Minor Domains, Areas of Expertise, Institution, Mobile Number, and Domain Knowledge			
UAT_00_3	Filter Apply	Verify that applying filters retrieves unverified faculty data	Unverified faculty data exists	1. Enter filter criteria (e.g., Name: "John")2. Apply filter (via state change)	Table displays unverified faculty data matching the criteria			



UAT_00_4	Filter Clear	Verify that clearing filters resets the table	Filters are applied	1. Apply a filter2. Click "Clear Filter" button	All filter fields are cleared, table shows all unverified faculty data		
UAT_00_5	View Details	Verify that faculty details popup displays correctly	Unverified faculty data exists	1. Click "View" button on a faculty row	Popup opens with detailed faculty information including photograph		
UAT_00_6	Verify Action	Verify that faculty can be verified successfully	Unverified faculty data exists	1. Click "Verify" button on a faculty row2. Wait for response	"Verified" status appears with success popup, and faculty is removed from table		
UAT_00_7	Reject Action	Verify that faculty can be rejected with remarks	Unverified faculty data exists	1. Click "Reject" button2. Enter remarks3. Click "Submit"	Rejection popup closes, "Rejected" status appears with success popup, and faculty is removed from table		
UAT_00_8	Reject Validation	Verify that rejection requires remarks	Unverified faculty data exists	Click "Reject" button2. Click "Submit" without remarks	Warning popup appears with "Please provide rejection remarks" message		



UAT_00_9	Error Handling	Verify that errors are handled during verification	Network error or server failure	1. Trigger a verification with network error2. Check response	Error popup appears with appropriate message (e.g., "Unable to connect to the server"), and "Failed to Verify" status is displayed				
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HOO FACULTY APPROVAL (HOO)

Test Case ID	Test Field Name	Test Scenario	Precondition s	Test Steps	Expected Result	Actual Result s	Statu s	Comme nts
UAT_00_ 1	Tab Navigation	Verify that the user can navigate to Faculty Approval page	User is logged in	1. Click on the "Faculty Approval" tab from the sidebar	The active tab updates correctly, and the Faculty Approval page is displayed with highlighted styling			
UAT_00_ 2	Data Display	Verify that faculty data is displayed in the table	Faculty data exists	Navigate to Faculty Approval page2. Check table	Table displays faculty data with columns for Name, Faculty Type, Year of Allotment, Mobile Number, Verified, View, and Action			



UAT_00_ 3	View Details	Verify that faculty details popup displays correctly	Faculty data exists	1. Click "View" button on a faculty row	Popup opens with detailed faculty information including photograph		
UAT_00_ 4	Approve Action	Verify that faculty can be approved successfully	Verified faculty data exists	1. Click "Approve" button on a verified faculty row2. Wait for response	"Approved" status appears with success popup, and faculty is removed from table		
UAT_00_ 5	Approve Validation	Verify that approval requires verification	Unverified faculty data exists	Click "Approve" button on an unverified faculty row	Warning popup appears with "Faculty must be verified before approval" message		
UAT_00_ 6	Reject Action	Verify that faculty can be rejected with remarks	Verified faculty data exists	Click "Reject" button2. Enter remarks3. Click "Submit"	Rejection popup closes, "Rejected" status appears with success popup, and faculty is removed from table		
UAT_00_ 7	Reject Validation	Verify that rejection requires remarks	Verified faculty data exists	Click "Reject" button2. Click "Submit" without remarks	Warning popup appears with "Please provide rejection remarks" message		



UAT_00_ 8	Reject Validation	Verify that rejection requires verification	Unverified faculty data exists	Click "Reject" button on an unverified faculty row2. Click "Submit"	Warning popup appears with "Faculty must be verified before rejection" message		
UAT_00_ 9	Error Handling	Verify that errors are handled during approval	Network error or server failure	1. Trigger an approval with network error2. Check response	Error popup appears with appropriate message (e.g., "Error approving faculty"), and "Failed to Approve" status is displayed		
				VIEWER(Asset View	·)		
UAT-AV- 001	Asset Type	Verify filtering by Asset Type in Purchase tab	User is logged in, Purchase tab is active	Navigate to Purchase tab Select "Permanent" from Asset Type dropdown Click Apply Filter	Table displays only Permanent asset records		
UAT-AV- 002	Custom Asset Type	Verify custom asset type input in Purchase tab	User is logged in, Purchase tab is active	Navigate to Purchase tab Select "Others" from Asset Type dropdown Enter "CustomType" in custom asset type field Click Apply Filter	Table displays records matching CustomType		



UAT-AV- 003	Asset Category	Verify filtering by Asset Category in Store/Issue tab	User is logged in, Store/Issue tab is active	Navigate to Store/Issue tab Select "Furniture" from Asset Category dropdown Click Apply Filter	Table displays only Furniture category records		
UAT-AV- 004	Sub Category	Verify sub- category filtering in Service/Retur n tab	User is logged in, Service/Return tab is active, Asset Category selected	Navigate to Service/Return tab Select "Permanent" Asset Type Select "Building" Asset Category Select "Vana Vigyan" Sub Category Citck Apply Filter	Table displays records for Vana Vigyan sub- category		
UAT-AV- 005	Item Name	Verify item name search in Disposal tab	User is logged in, Disposal tab is active	Navigate to Disposal tab Enter "Chair" in Item Name field Click Apply Filter	Table displays records with Item Name containing "Chair"		
UAT-AV- 006	Purchase Date	Verify date range filtering in Purchase tab	User is logged in, Purchase tab is active	 Navigate to Purchase tab Set Purchase Date From to "2023-01-01" Set Purchase Date To to "2023-12-31" Click Apply Filter 	Table displays records purchased in 2023		



UAT-AV- 007	Clear Filter	Verify clear filter functionality in Dead Stock tab	User is logged in, Dead Stock tab is active, filters applied	 Navigate to Dead Stock tab Apply any filter (e.g., Asset Type) Click Clear Filter button 	All filter fields are reset, table displays all records		
UAT-AV- 008	Export to PDF	Verify PDF export in Purchase tab	User is logged in, Purchase tab is active, data available	Navigate to Purchase tab Apply any filter Click Export to PDF	PDF file is downloaded with filtered data and correct formatting		
UAT-AV- 009	Export to Excel	Verify Excel export in Store/Issue tab	User is logged in, Store/Issue tab is active, data available	Navigate to Store/Issue tab Apply any filter Click Export to Excel	Excel file is downloaded with filtered data		
UAT-AV- 010	View Details	Verify detailed view popup in Purchase tab	User is logged in, Purchase tab is active, data available	Navigate to Purchase tab Apply filter to display records Click View Details for a record	Popup displays detailed information for the selected record		
UAT-AV- 011	Building Maintenanc e	Verify Building Maintenance records display in Service/Retur n tab	User is logged in, Service/Return tab is active, Building category selected	Navigate to Service/Return tab Select "Building" Asset Category Apply Filter	Building Maintenance records table is displayed below main table		



UAT-AV-Method of Verify User is logged Table Display 1. Navigate to Dead Stock tab 012 Disposal Method of in, Dead Stock 2. Select "Sold" from Method record with Disposal filter of Disposal dropdown tab is active method of in Dead Stock 3. Click Apply Filter Disposal tab **Total Cost** UAT-AV-Verify total User is logged 1. Navigate to Disposal tab Total Disposal in, Disposal tab 2. Apply filter to display Value is 013 cost calculation in is active, data records displayed Disposal tab available 3. Check Total Disposal correctly based Value on filtered records **VIEWER**(Faculty View) User is logged UAT-FV-Faculty Verify 1. Navigate to FacultyView Table displays 001 Type filtering by in, FacultyView page only Internal Faculty Type page is loaded 2. Select "Internal" from faculty records Faculty Type dropdown 3. Observe table data UAT-FV-User is logged Table displays Name Verify 1. Navigate to FacultyView filtering by in, FacultyView records with 002 page 2. Enter "John Doe" in Name Name page is loaded Name containing "John Doe" field 3. Observe table data



UAT-FV- 003	Year of Allotment	Verify filtering by Year of Allotmen	User is logged in, FacultyView page is loaded	 Navigate to FacultyView page Enter "2023" in Year of Allotment field Observe table data 	Table displays records with Year of Allotment as 2023		
UAT-FV- 004	Email	Verify filtering by Email	User is logged in, FacultyView page is loaded	User is logged in, FacultyView page is loaded	Table displays records with Email containing "example@domai n.com"		
UAT-FV- 005	Status	Verify filtering by Status	User is logged in, FacultyView page is loaded	Navigate to FacultyView page Select "Serving" from Status dropdown Observe table dat	Table displays only Serving faculty records		
UAT-FV- 006	Modules Handled	Verify filtering by Modules Handled	User is logged in, FacultyView page is loaded	Navigate to FacultyView page Enter "Silviculture" in Modules Handled field Observe table data	Table displays records with Modules Handled containing "Silviculture"		
UAT-FV- 007	Major Domains	Verify filtering by Major Domains	User is logged in, FacultyView page is loaded	Navigate to FacultyView page Select "Forest & Wildlife" from Major Domains dropdown Observe table data	Table displays records with Major Domain as "Forest & Wildlife"		



UAT-FV- 008	Minor Domains	Verify filtering by Minor Domains	User is logged in, FacultyView page is loaded, Major Domain selected	Navigate to FacultyView page Select "Forest & Wildlife" from Major Domains dropdown Select "Silviculture" from Minor Domains dropdown Observe table data	1. Navigate to FacultyView page 2. Select "Forest & Wildlife" from Major Domains dropdown 3. Select "Silviculture" from Minor Domains dropdown 4. Observe table data		
UAT-FV- 009	Area of Expertise	Verify filtering by Area of Expertise	User is logged in, FacultyView page is loaded	Navigate to FacultyView page Enter "Wildlife Conservation" in Area of Expertise field Observe table data	Table displays records with Area of Expertise containing "Wildlife Conservation"		
UAT-FV- 010	Institution	Verify filtering by Institution	User is logged in, FacultyView page is loaded	Navigate to FacultyView page Enter "CASFOS" in Institution field Observe table data	Table displays records with Institution containing "CASFOS"		



UAT-FV- 011	Mobile Number	Verify filtering by Mobile Number	User is logged in, FacultyView page is loaded	 Navigate to FacultyView page Enter "9876543210" in Mobile Number field Observe table data 	Table displays records with Mobile Number containing "9876543210"		
UAT-FV- 012	Domain Knowledge	Verify filtering by Domain Knowledge	User is logged in, FacultyView page is loaded	Navigate to FacultyView page Enter "Environmental Laws" in Domain Knowledge field Observe table data	Table displays records with Domain Knowledge containing "Environmental Laws"		
UAT-FV- 013	Clear Filter	Verify clear filter functionality	User is logged in, FacultyView page is loaded, filters applied	 Navigate to FacultyView page Apply any filter (e.g., Faculty Type) Click Clear Filter button 	All filter fields are reset, table displays no records or default state		
UAT-FV- 014	View Details	Verify detailed view popup	User is logged in, FacultyView page is loaded, data available	 Navigate to FacultyView page Apply filter to display records Click View button for a record 	Popup displays detailed information for the selected faculty		
UAT- FV_015	Photograph Display	Verify photograph display in table	User is logged in, FacultyView page is loaded, data with photograph available	 Navigate to FacultyView page Apply filter to display records Observe Photograph column 	Photographs are displayed correctly or "No Image" for records without photographs		



4.75 Non - Functional Testing

Test	Require	Test	Preconditio	Test Steps	Expected	Actu	St	Com
Case	ment	Scenario	ns		Result	al	at	ment
ID						Resul	us	s
						t		
				Performance				
UAT_T C_NFT _001	Response Time	Verify that key operations complete within 5 seconds	Production-like environment	 Simulate a user logging in. Measure response time for dashboard loading. Simulate new data submission. Measure response time for submission. Repeat for 10 iterations and calculate average. 	Average response time for login and complaint submission is ≤5 seconds			
UAT_T C_NFT _002	Data Submission Time	Verify that Data submission completes within 5 seconds	Production-like environment; test user account with valid data; multimedia files (image ≤5 MB, pdf≤5 MB) prepared	 Log in as store Keeper. Navigate to Asset Store. Fill all fields with valid data, including 1 PDF or 1 Image. Click Submit. Measure time from click to success message. Repeat 5 times. 	Data submission completes in ≤5 seconds per attempt			
UAT_T C_NFT _003	Report Generation Time	Verify that PDF and CSV report generation completes within 15 seconds	Production-like environment; test data with 100 data; logged in as Viewer	 Navigate toAsset view. Apply filters (e.g., date range, department). Click PDF Report button. Measure time to generate PDF. Click CSV Report button. Measure time to generate CSV. Repeat 3 times. 	PDF and CSV reports generate in ≤15 seconds each			
UAT_T C_NFT _004	Daily Data Load	Verify that the system handles 50 new data's per day without	Production-like environment; test data for 50	 Simulate 50 new Asset Data submissions. Measure response times for submissions. Monitor CPU, memory, and database performance. Check for errors or delays. 	All 50 data entry are processed with response times ≤5 seconds; no system errors or crashes			



		performance				
		degradation				
				Scalability		
UAT_T C_NFT _005	Concurrent Users	Verify that the system supports 100 concurrent users without performance degradation	Production-like environment; load testing tool (e.g., JMeter) configured to simulate 100 users	 Simulate 100 concurrent users performing actions (e.g., 50 submitting of Asset Entry). Measure response times for key operations. Monitor server CPU, memory, and database metrics. Check for errors or timeouts. 	Response times remain ≤3 seconds for key operations; no errors or crashes	
UAT_T C_NFT _006	Baseline Concurrent Users	Verify that the system supports 15 concurrent users as per SRS	Production-like environment; load testing tool configured for 15 users	 Simulate 15 concurrent users Measure response times for key operations. Monitor system performance metrics. Check for errors. 	Response times remain ≤3 seconds; no performance degradation or errors	
				Security		
UAT_T C_NFT _007	HTTPS/TL S	Verify that all communicati ons use HTTPS with TLS 1.3	Production-like environment; browser developer tools or SSL scanning tool (e.g., Qualys SSL Labs) available	 Access the CDBMS login page. Inspect network traffic to confirm HTTPS usage. Verify TLS 1.3 protocol in browser or SSL tool. Attempt to access via HTTP and confirm redirection to HTTPS. 	All requests use HTTPS with TLS 1.3; HTTP requests redirect to HTTPS	
UAT_T C_NFT _008	JWT Authenticat ion	Verify that all API endpoints require valid JWT authentication	Production-like environment; API testing tool (e.g., Postman) configured; test user accounts	 Attempt to access a protected API endpoint without a JWT token. Log in to obtain a valid JWT token. Access the endpoint with the valid token. Use an expired/invalid token and attempt access. 	Requests without JWT are rejected (401 Unauthorized); valid JWT grants access; expired/invalid tokens are rejected	
				Reliability		
UAT_T C_NFT _009	System Uptime	Verify that the system achieves ≥99% uptime annually	Production-like environment; monitoring tool (e.g., UptimeRobot)	 Deploy CDBMS in test environment. Monitor system availability for 7 days. Simulate user actions 	Uptime is ≥99% (≤1.68 hours downtime in 7 days)	



			configured for 1 week	periodically. 4. Record any downtime incidents. 5. Calculate uptime percentage.		
				Usability		
UAT_T C_NFT _010	Cross- Browser Compatibil ity	Verify that the system functions across specified browsers	Production-like environment; latest versions of Chrome (v116+), Firefox (v115+), Edge (v116+), Safari (v16+) installed	 Access CDBMS on each browser. Perform key actions: login, submit data, view data, generate report. Check UI rendering, responsiveness, and functionality. Verify toast notifications and error messages. 	All functions work correctly; UI renders properly; toast notifications display in all browsers	
UAT_T C_NFT _016	Cross- Device Compatibil ity	Verify that the system is responsive across desktop, tablet, and mobile devices	Production-like environment; test devices: Windows 11 desktop, iPad (iOS 16+), Android 13 phone	 Access CDBMS on each device. Perform key actions: login, submit data, view data etc. Verify responsive design (e.g., layout adjusts to screen size). Check touch interactions on tablet/mobile. 	System is fully functional and responsive; UI adapts to device screen sizes	
UAT_T C_NFT _017	User Satisfaction	Verify that the system achieves ≥90% user satisfaction	Production-like environment; 10 test users and collected the; feedback survey prepared	1.Provide test users with access to CDBMS. 2. Ask users to perform tasks (e.g., submit data, update data, generate report). 3. Collect feedback via survey (rating usability, intuitiveness). 4. Calculate average satisfaction score.	Average user satisfaction score is ≥90%	
			N	Maintainability		
UAT_T C_NFT _018	Logging	Verify that the system logs errors and activities for debugging	Production-like environment; access to log files or database	 Simulate an error (e.g., invalid login attempt). Perform a valid action (e.g., data submission). Inspect logs for error and action entries. 	Logs capture all errors and activities with accurate details	



				4. Verify log details			
				(timestamp, user, error code).			
UAT_T	Code	Verify that	Access to	Review backend code	Code is modular,		
C_NFT	Modularity	the system's	source code;	(Node.js/Express) for modular	well-documented,		
_019		codebase is	development	structure (e.g., separate routes,	and follows MERN		
		modular for	team available	controllers).	best practices		
		maintenance	for review	2. Review frontend code			
				(React) for component-based			
				architecture.			
				3. Verify MongoDB schema			
				design for scalability.			
				4. Check for code			
				documentation.			

4.76 USABILITY TESTING

Test Case ID	Require ment	Test Scenario	Preconditio ns	Test Steps	Expected Result	Actu al Resul t	St at us	Com ment s
UAT_T C_FT_ UT_001	Navigation	Verify that the interface is intuitive and easy to navigate for all roles	Production- equivalent environment; test accounts for storekeeper, Assetmanager, HOO, Principal, Viewer etc; feedback survey prepared; application running React 18.3.1	 Log in as each user role. Perform role-specific tasks (e.g., Asset data submits complaint, Administrator generates report). Check ease of menu access and page transitions. Collect feedback via survey. 	Navigation is intuitive; users complete tasks without assistance; satisfaction score ≥90%			
UAT_T C_FT_ UT_002	Responsive ness	Verify that the system is responsive across devices	Production- equivalent environment; test devices: Desktop (1920x1080), iPad (iOS 16+), Android 13	 Access CDBMS on each device. Perform actions: login, submit Asset or faculty data, view data. Check layout adjusts to screen size. Test touch interactions on 	UI adapts to screen sizes; all actions work seamlessly; touch interactions are smooth; satisfaction score ≥90%			



			phone	tablet/mobile.			T	
			(1080x2400);	5. Collect feedback via survey.				
			test accounts for	3. Collect leedback via sui vey.				
			Complainant,					
			Administrator;					
			application					
			running React					
			18.3.1					
UAT_T	Accessibilit	Verify that	Production-	1. Log in as Storekeeper and	Toast notifications			
C_FT_	у	toast	equivalent	submit a new asset data with	display clear,			
UT_003		notifications	environment;	invalid data (e.g., blank fields).	concise messages			
		provide clear	test accounts for	2. Check for toast notification	for errors and			
		feedback	Asset entry and	with clear error message.	actions; users			
			Faculty Entryt;	3. Log in as Asset Manager and	understand			
			test data with	update status with invalid input.	feedback;			
			invalid inputs;	4. Verify notification clarity.	satisfaction score			
			application	5. Collect feedback.	≥90%			
			running React	3. Concet recuback.	27070			
			_					
IIAT T	Cnass	Manifes (1-)	18.3.1	1. Access CDBMS on each	All actions work			
UAT_T	Cross-	Verify that	Production-					
C_FT_	Browser	the system	equivalent	browser.	correctly; UI			
UT_004	Compatibil	functions	environment;	2. Perform actions: login,	renders properly;			
	ity	across	latest versions	submit Asset data or faculty	toast notifications			
		browsers	of Chrome,	datat, view data.	display;			
			Firefox, Edge,	3. Check UI rendering and	satisfaction score			
			Safari; test	functionality.	≥90%			
			accounts for	4. Verify toast notifications.				
			Asset Entry and	5. Collect feedback via survey.				
			faculty entry,					
			Administrator;					
			application					
			running React					
			18.3.1					
UAT_T	User	Verify that	Production-	1. Provide users access to	Average user		+	
C_FT_	Satisfaction	the system	equivalent	CDBMS.	satisfaction score is			
UT_005	Sausiaction	achieves	environment;	2. Ask users to perform role-	≥90%			
01_003		≥90% user	10 test users;	specific tasks (e.g., submit				
			· ·	1				
		satisfaction	collect feedback	Asset Entry, update Asset,				
			survey;	generate report).				
			application	3. Collect feedback via survey				
			running	on usability and experience.				
			MongoDB	4. Calculate average				
			7.0.5, Node.js	satisfaction score.				
ĺ			20.11.0,			1		



	Express 4.21.2,			
	React 18.3.1			

5 Environment Requirements

5.1 TEST ENVIRONMENTS

• Test Environment Requirements:

 Setup: A production-equivalent environment mirroring the production infrastructure, capable of running the CDBMS application with MongoDB 7.0.5, Node.js 20.11.0, Express 4.21.2, and React 18.3.1.

o Hardware:

- Server: Minimum Intel i5 12th Gen or equivalent, 16GB RAM (32GB recommended), 512GB SSD for hosting the application and database.
- Client Devices: Desktop (1920x1080 resolution), tablet (iPad with iOS 16+), mobile (Android 13 phone, 1080x2400 resolution) for responsiveness testing.

o Software:

- Database: MongoDB 7.0.5 for storing complaints and user data.
- Backend: Node.js 20.11.0, Express 4.21.2 for API services.
- Frontend: React 18.3.1 for the user interface.
- Browsers: Latest versions of Chrome, Firefox, Edge, and Safari for crossbrowser testing.
- Testing Tools: Survey tool (e.g., Google Forms) for user feedback, browser developer tools for accessibility testing.

o Network:

- Stable internet connection (minimum 10 Mbps) to simulate productionlike conditions.
- Access to external services (e.g., Gmail SMTP for notifications).

o Test Data:



- Test user accounts for all roles (Storekeeper, Asset manager, Faculty Entry staff, Faculty Verifier, HOO, Principal, Viewer) with valid credentials.
- Sample complaint data, including multimedia files (images ≤5 MB, videos ≤100 MB).
- Invalid input data for accessibility testing (e.g., blank fields, incorrect formats).

o Access:

- Testers must have login credentials and role-specific permissions.
- Secure access to the test environment via VPN or restricted network if required.

• Security Requirements:

- Protocol: The test environment must use HTTPS for all communications, with a valid SSL certificate to mirror production security.
- Authentication: JWT-based authentication for all API endpoints, ensuring only authorized users access the system.
- Data Protection: Test data must be anonymized or synthetic to avoid using real user information, complying with data protection best practices.
- Access Control: Role-Based Access Control (RBAC) configured to restrict testers to their assigned roles.
- Logging: Audit logs enabled to track user actions during testing for troubleshooting and compliance.

6 Sign-Off and Approval

The User Acceptance Testing (UAT) process and results outlined in this document have been reviewed and approved by the stakeholders. By signing this document, the stakeholders acknowledge that:

- The listed test cases have been executed as planned.
- The defects found during testing have been documented and addressed appropriately.
- The application/system meets the required business needs and is ready for production deployment.



6.1 STAKEHOLDER APPROVAL

Name	Designation	Department	Signature	Date