### **Test Cases Report - 65 Test Cases**

Total Test Cases	65	
Categories	Performance, Integration, Usability, Boundary, Functional, Error	Security
Priority Levels	Low, High, Critical, Medium	
Generated On	2025-07-31 13:33:48	

# Test Case 1: Validate assignment of entitlements during customer onboarding

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Test ID	TC_001	
Module	Entitlements > Customer On-Boarding	
Category	Functional	
Priority	Critical	
Test Type	Positive	
Risk Level	High	
Estimated Time	10 minutes	
Description	Test that entitlements are correctly assigned to customers during onboarding based on se	ected payment types.
Objective	Ensure entitlement assignment logic works as per business rules during onboarding.	
Preconditions	Customer onboarding process initiated; Payment types configured	
Test Steps	Start onboarding for a new customer; Select payment types; Complete onboarding	
Expected Result	Entitlements are assigned as per selected payment types and displayed in customer profil	e.
Validation Criteria	Entitlements match selection; No missing entitlements	
Dependencies	Payment type configuration	
Notes	Covers initial entitlement logic for onboarding.	

# Test Case 2: Verify auto-rejection of stale transactions after 45 days

Test ID	TC_002
Module	Common Handling > Workflow Rules
Category	Functional
Priority	Critical
Test Type	Positive

Risk Level	High
Estimated Time	5 minutes
Description	Test that unapproved or unreleased transactions are automatically rejected after 45 days.
Objective	Ensure compliance with workflow auto-rejection rule.
Preconditions	Transaction created and pending for 45 days
Test Steps	Create a transaction; Leave it unapproved for 45 days; Check transaction status after 45 days
Expected Result	Transaction is automatically rejected by the system.
Validation Criteria	Status updates to Rejected; Audit log entry present
Dependencies	Transaction creation; Time simulation
Notes	Time manipulation may be needed for test.

# **Test Case 3: Test role-based access control for entitlement management**

Test ID	TC_003	
Module	Security > Authorization	
Category	Security	
Priority	Critical	
Test Type	Positive/Negative	
Risk Level	High	
Estimated Time	8 minutes	
Description	Verify that only authorized roles can access and modify entitlement settings.	
Objective	Prevent unauthorized access to entitlement management.	
Preconditions	User accounts with different roles exist	
Test Steps	Login as admin; Access entitlement management; Login as regular user; Attempt to access	s entitlement managen
Expected Result	Admin can access; regular user is denied access.	
Validation Criteria	Access control enforced; Proper error message for unauthorized access	
Dependencies	User role setup	
Notes	Test both positive (admin) and negative (user) scenarios.	

### Test Case 4: Validate SWIFT compliance for free-format fields

Test ID	TC_004
Module	Data Validation > Input Validation
Category	Functional
Priority	High
Test Type	Positive/Negative

Risk Level	High
Estimated Time	6 minutes
Description	Ensure that only SWIFT-compliant characters are accepted in free-format fields.
Objective	Prevent invalid data entry in SWIFT-compliant fields.
Preconditions	SWIFT-compliant field present in UI
Test Steps	Enter valid SWIFT characters; Submit; Enter invalid characters; Submit
Expected Result	Valid input accepted; invalid input rejected with error.
Validation Criteria	Error shown for invalid input; Valid input accepted
Dependencies	Field validation logic
Notes	Covers regulatory compliance.

## **Test Case 5: Check mandatory field enforcement in entitlement forms**

Test ID	TC_005
Module	UI > Form Validation
Category	Functional
Priority	High
Test Type	Negative
Risk Level	Medium
Estimated Time	4 minutes
Description	Test that forms cannot be submitted if mandatory fields are left blank.
Objective	Ensure mandatory fields are enforced at UI and backend.
Preconditions	Entitlement form available
Test Steps	Open entitlement form; Leave mandatory fields blank; Attempt to submit
Expected Result	Form submission blocked with appropriate error message.
Validation Criteria	Error message shown; No data saved
Dependencies	UI validation
Notes	Test for all mandatory fields.

# Test Case 6: Boundary test for daily single limit field (max 12 digits)

Test ID	TC_006
Module	Data Validation > Field Length
Category	Boundary
Priority	High

Test Type	Boundary/Negative
Risk Level	Medium
Estimated Time	5 minutes
Description	Test that the daily single limit field accepts up to 12 digits and rejects more.
Objective	Validate field length enforcement.
Preconditions	Daily single limit field present
Test Steps	Enter 12-digit value; Submit; Enter 13-digit value; Submit
Expected Result	12-digit value accepted; 13-digit value rejected.
Validation Criteria	Max length enforced; Error for overflow
Dependencies	Field validation
Notes	Covers numeric field boundaries.

# **Test Case 7: Verify dropdown default values in entitlement parameters**

Test ID	TC_007
Module	UI > Dropdowns
Category	Functional
Priority	Medium
Test Type	Positive
Risk Level	Low
Estimated Time	3 minutes
Description	Ensure all entitlement parameter dropdowns have correct default values.
Objective	Validate UI default value logic.
Preconditions	Dropdowns configured with defaults
Test Steps	Open entitlement form; Check all dropdown default values
Expected Result	All dropdowns show correct default values as per config.
Validation Criteria	Defaults match config
Dependencies	Dropdown configuration
Notes	Covers UI/UX consistency.

## Test Case 8: Test conditional display of fields based on Egypt GCIF entitlement

Test ID	TC_008
Module	UI > Conditional Logic
Category	Functional

Priority	High
Test Type	Positive/Negative
Risk Level	Medium
Estimated Time	6 minutes
Description	Verify that fields appear or hide based on GCIF level Egypt country entitlement.
Objective	Ensure conditional UI logic is enforced.
Preconditions	GCIF entitlement logic implemented
Test Steps	Login as Egypt GCIF user; Open entitlement screen; Observe field visibility; Login as non-Egypt user; Repeat
Expected Result	Fields show/hide as per regional logic.
Validation Criteria	Fields visible only for Egypt GCIF
Dependencies	Regional logic
Notes	Critical for regional compliance.

# Test Case 9: Validate parameterization of entitlement options (Adhoc Bill, Next Authorizer, Verifier/Releaser)

Test ID	TC_009	
Module	Entitlements > Parameterization	
Category	Functional	
Priority	High	
Test Type	Positive	
Risk Level	Medium	
Estimated Time	7 minutes	
Description	Test that entitlement options are parameterized and can be enabled/disabled via checkboxes/o	dropdowns.
Objective	Ensure entitlement options are configurable.	
Preconditions	Parameterization logic implemented	
Test Steps	Open entitlement config; Toggle Adhoc Bill, Next Authorizer, Verifier/Releaser; Save; Verify ch	anges applied
Expected Result	Options can be enabled/disabled and changes reflected in entitlements.	
Validation Criteria	Changes saved; Reflected in user entitlements	
Dependencies	Parameterization feature	
Notes	Supports future extensibility.	

#### Test Case 10: Test beneficiary addition via customer portal

Test ID	TC_010
Module	Admin Portal > Beneficiary Management
Category	Functional

Priority	High	
Test Type	Positive	
Risk Level	Medium	
Estimated Time	6 minutes	
Description	Verify that beneficiaries can be added via the customer portal as per Egypt-specific requirem	nents
Objective	Ensure customer portal supports beneficiary addition.	
Preconditions	Customer portal access; Beneficiary management enabled	
Test Steps	Login to customer portal; Navigate to beneficiary management; Add new beneficiary; Save	
Expected Result	Beneficiary added and visible in list.	
Validation Criteria	Beneficiary appears in list; DB record created	
Dependencies	Customer portal	
Notes	Egypt-specific requirement.	

#### **Test Case 11: Test beneficiary addition via admin portal**

Test ID	TC_011
Module	Admin Portal > Beneficiary Management
Category	Functional
Priority	High
Test Type	Positive
Risk Level	Medium
Estimated Time	6 minutes
Description	Verify that beneficiaries can be added via the admin portal and are visible to customers.
Objective	Ensure admin portal supports beneficiary addition.
Preconditions	Admin portal access; Beneficiary management enabled
Test Steps	Login to admin portal; Navigate to beneficiary management; Add new beneficiary; Save
Expected Result	Beneficiary added and visible to customers.
Validation Criteria	Beneficiary visible to customers
Dependencies	Admin portal
Notes	Compare with customer portal.

### Test Case 12: Verify audit trail creation for entitlement changes

Test ID	TC_012
Module	Compliance > Audit Trail
Category	Functional
Priority	Critical

Test Type	Positive
Risk Level	High
Estimated Time	5 minutes
Description	Test that all changes to entitlements are logged in the audit trail.
Objective	Ensure auditability for compliance.
Preconditions	Audit trail feature enabled
Test Steps	Modify entitlement; Check audit trail for entry
Expected Result	Audit trail entry created with change details.
Validation Criteria	Audit entry contains user, timestamp, change
Dependencies	Audit trail implementation
Notes	Regulatory requirement.

### Test Case 13: Test input validation for numeric-only fields

Test ID	TC_013
Module	Data Validation > Field Validation
Category	Functional
Priority	High
Test Type	Negative
Risk Level	Medium
Estimated Time	4 minutes
Description	Ensure that numeric-only fields reject alphabetic or special character input.
Objective	Prevent invalid data entry.
Preconditions	Numeric field present
Test Steps	Enter alphabetic characters; Submit; Enter special characters; Submit
Expected Result	Input rejected with error message.
Validation Criteria	Error for non-numeric input
Dependencies	Field validation
Notes	Covers NUM/N(XX) fields.

# Test Case 14: Check system behavior when adding new payment types post go-live

Test ID	TC_014
Module	Configuration Management > Payment Type Management
Category	Functional
Priority	Critical

Test Type	Positive	
Risk Level	High	
Estimated Time	8 minutes	
Description	Test system's ability to add new governmental payment types via configuration after go-liv	e.
Objective	Validate system extensibility.	
Preconditions	Admin access; Payment type config enabled	
Test Steps	Login as admin; Navigate to payment type config; Add new payment type; Save; Verify av	ailability in entitlement
Expected Result	New payment type available for entitlement assignment.	
Validation Criteria	New type appears in UI; Assignable to users	
Dependencies	Config management	
Notes	Supports future extensibility.	

## **Test Case 15: Verify error handling for duplicate beneficiary addition**

Test ID	TC_015
Module	Admin Portal > Beneficiary Management
Category	Error
Priority	High
Test Type	Negative
Risk Level	Medium
Estimated Time	4 minutes
Description	Ensure system prevents adding duplicate beneficiaries and shows appropriate error.
Objective	Prevent duplicate data entry.
Preconditions	Beneficiary already exists
Test Steps	Attempt to add beneficiary with existing details; Submit
Expected Result	Error message shown; duplicate not added.
Validation Criteria	No duplicate in DB; Error displayed
Dependencies	Beneficiary uniqueness logic
Notes	Data integrity check.

### Test Case 16: Test API endpoint for entitlement retrieval

Test ID	TC_016
Module	API > Entitlement Retrieval
Category	Integration
Priority	High

Test Type	Positive
Risk Level	Medium
Estimated Time	5 minutes
Description	Verify API returns correct entitlement data for a given user.
Objective	Ensure API correctness and data integrity.
Preconditions	API endpoint available; User with entitlements exists
Test Steps	Call API with user ID; Check response data
Expected Result	API returns correct entitlement data.
Validation Criteria	Data matches DB; No missing fields
Dependencies	API implementation
Notes	API contract validation.

# Test Case 17: Test API endpoint for entitlement update with invalid payload

Test ID	TC_017
Module	API > Entitlement Update
Category	Integration
Priority	High
Test Type	Negative/Error
Risk Level	Medium
Estimated Time	5 minutes
Description	Verify API rejects invalid payloads with proper error messages.
Objective	Ensure API input validation and error handling.
Preconditions	API endpoint available
Test Steps	Call API with invalid payload; Check error response
Expected Result	API returns error with details of invalid input.
Validation Criteria	Error response structure; No update performed
Dependencies	API input validation
Notes	Covers API robustness.

#### **Test Case 18: Test login with invalid credentials**

Test ID	TC_018
Module	Security > Authentication
Category	Security
Priority	Critical

Test Type	Negative
Risk Level	High
Estimated Time	3 minutes
Description	Ensure system rejects login attempts with invalid credentials.
Objective	Prevent unauthorized access.
Preconditions	Login page available
Test Steps	Enter invalid username/password; Submit
Expected Result	Login denied with error message.
Validation Criteria	No access granted; Error shown
Dependencies	Authentication system
Notes	Basic security test.

#### **Test Case 19: Test session timeout for inactive users**

Test ID	TC_019
Module	Security > Session Management
Category	Security
Priority	High
Test Type	Positive/Negative
Risk Level	Medium
Estimated Time	7 minutes
Description	Verify user is logged out after a period of inactivity.
Objective	Prevent unauthorized access via stale sessions.
Preconditions	User logged in
Test Steps	Login; Remain inactive for timeout period; Attempt to perform action
Expected Result	User session expired; must login again.
Validation Criteria	Session invalidated; Action blocked
Dependencies	Session management config
Notes	Covers session security.

### Test Case 20: Test file upload for entitlement bulk assignment

Test ID	TC_020
Module	Entitlements > Bulk Assignment
Category	Functional
Priority	High
Test Type	Positive

Risk Level	Medium
Estimated Time	10 minutes
Description	Verify system processes entitlement bulk assignment files correctly.
Objective	Ensure file upload and processing workflow is functional.
Preconditions	Bulk assignment feature enabled
Test Steps	Prepare valid entitlement file; Upload via UI; Check processing status
Expected Result	File processed successfully; entitlements assigned.
Validation Criteria	Entitlements assigned; No errors in log
Dependencies	Bulk assignment module
Notes	Covers file upload workflow.

# Test Case 21: Test file upload with invalid format for entitlement bulk assignment

Test ID	TC_021
Module	Entitlements > Bulk Assignment
Category	Error
Priority	High
Test Type	Negative
Risk Level	Medium
Estimated Time	6 minutes
Description	Verify system rejects entitlement files with invalid format.
Objective	Prevent processing of malformed files.
Preconditions	Bulk assignment feature enabled
Test Steps	Prepare invalid entitlement file; Upload via UI
Expected Result	File rejected with error message.
Validation Criteria	File not processed; Error shown
Dependencies	File validation logic
Notes	Covers negative file upload scenario.

# Test Case 22: Test entitlement assignment for Governmental Payments (Tax, Custom, Universal)

Test ID	TC_022
Module	Entitlements > Payment Type Assignment
Category	Functional
Priority	High

Test Type	Positive	
Risk Level	Medium	
Estimated Time	7 minutes	
Description	Verify that entitlements for Tax, Custom, and Universal Collection are mapped under Gove	ernmental Payments.
Objective	Ensure correct mapping of sub-products.	
Preconditions	Governmental payment types configured	
Test Steps	Assign entitlement for Tax; Check mapping; Repeat for Custom and Universal	
Expected Result	All sub-products mapped under Governmental Payments.	
Validation Criteria	Correct mapping in DB/UI	
Dependencies	Payment type config	
Notes	Covers business rule mapping.	

#### Test Case 23: Test input validation for date fields (DD-MM-YYYY)

Test ID	TC_023
Module	Data Validation > Field Validation
Category	Functional
Priority	Medium
Test Type	Negative
Risk Level	Low
Estimated Time	3 minutes
Description	Ensure system rejects invalid date formats in date fields.
Objective	Prevent invalid date entry.
Preconditions	Date field present
Test Steps	Enter date as MM-DD-YYYY; Submit
Expected Result	Input rejected with format error.
Validation Criteria	Error for invalid format
Dependencies	Date field validation
Notes	Covers date format enforcement.

### Test Case 24: Test input validation for time fields (HH:MM:SS)

Test ID	TC_024
Module	Data Validation > Field Validation
Category	Functional
Priority	Medium
Test Type	Negative

Risk Level	Low
Estimated Time	3 minutes
Description	Ensure system rejects invalid time formats in time fields.
Objective	Prevent invalid time entry.
Preconditions	Time field present
Test Steps	Enter time as 25:61:61; Submit
Expected Result	Input rejected with format error.
Validation Criteria	Error for invalid time
Dependencies	Time field validation
Notes	Edge case for time validation.

# Test Case 25: Test system response to entitlement assignment with missing dependencies

Test ID	TC_025
Module	Entitlements > Assignment Logic
Category	Error
Priority	High
Test Type	Negative/Error
Risk Level	Medium
Estimated Time	4 minutes
Description	Verify system handles missing payment type dependency gracefully.
Objective	Ensure error handling for missing dependencies.
Preconditions	Payment type dependency not configured
Test Steps	Attempt to assign entitlement for missing payment type; Submit
Expected Result	Error message shown; assignment blocked.
Validation Criteria	Error for missing dependency
Dependencies	Dependency validation logic
Notes	Covers dependency checks.

## **Test Case 26: Test performance of entitlement retrieval under load**

Test ID	TC_026
Module	Performance > API
Category	Performance
Priority	Critical

Test Type	Positive
Risk Level	High
Estimated Time	15 minutes
Description	Simulate multiple concurrent entitlement retrievals and measure response time.
Objective	Ensure system performs under high load.
Preconditions	Load testing tools available
Test Steps	Simulate 1000 concurrent API calls; Measure response time
Expected Result	All requests served within acceptable response time.
Validation Criteria	Response time SLA met
Dependencies	API; Load test setup
Notes	Performance benchmark.

### Test Case 27: Test UI usability for entitlement assignment screen

Test ID	TC_027
Module	UI > Usability
Category	Usability
Priority	Medium
Test Type	Positive
Risk Level	Low
Estimated Time	8 minutes
Description	Assess ease of use and intuitiveness of entitlement assignment UI.
Objective	Ensure good user experience.
Preconditions	UI deployed
Test Steps	Navigate to entitlement assignment; Assign entitlements; Observe workflow
Expected Result	User can complete assignment without confusion.
Validation Criteria	No usability blockers
Dependencies	UI design
Notes	Subjective, may require feedback.

## **Test Case 28: Test SQL injection vulnerability on entitlement** forms

Test ID	TC_028
Module	Security > Input Validation
Category	Security
Priority	Critical

Test Type	Negative
Risk Level	High
Estimated Time	5 minutes
Description	Verify system is protected against SQL injection in entitlement forms.
Objective	Ensure no security vulnerabilities.
Preconditions	Entitlement form available
Test Steps	Enter SQL injection payload; Submit
Expected Result	Input rejected; no DB compromise.
Validation Criteria	No DB changes; Error for malicious input
Dependencies	Input sanitization
Notes	Covers OWASP Top 10.

### Test Case 29: Test XSS vulnerability on free-format fields

Test ID	TC_029
Module	Security > Input Validation
Category	Security
Priority	Critical
Test Type	Negative
Risk Level	High
Estimated Time	5 minutes
Description	Verify system is protected against XSS in free-format fields.
Objective	Prevent cross-site scripting attacks.
Preconditions	Free-format field in UI
Test Steps	Enter <script>alert('XSS')</script> ; Submit; Check page rendering
Expected Result	Script not executed; input sanitized.
Validation Criteria	No script execution
Dependencies	XSS protection
Notes	Security compliance.

## Test Case 30: Test cross-browser compatibility for entitlement screens

Test ID	TC_030
Module	UI > Cross-Browser
Category	Usability
Priority	Medium

Test Type	Positive
Risk Level	Low
Estimated Time	10 minutes
Description	Verify entitlement screens render and function correctly in Chrome, Firefox, Edge, and Safari
Objective	Ensure consistent user experience across browsers.
Preconditions	Browsers installed
Test Steps	Open entitlement screen in each browser; Check rendering and functionality
Expected Result	Screens display and function identically in all browsers.
Validation Criteria	No rendering issues; All features work
Dependencies	Browser compatibility
Notes	Cross-browser check.

# **Test Case 31: Test backup and recovery of entitlement configuration**

Test ID	TC_031
Module	Configuration Management > Backup/Recovery
Category	Functional
Priority	Critical
Test Type	Positive
Risk Level	High
Estimated Time	12 minutes
Description	Verify entitlement configuration can be backed up and restored without data loss.
Objective	Ensure disaster recovery readiness.
Preconditions	Backup/restore tools available
Test Steps	Backup current config; Make changes; Restore backup; Verify config restored
Expected Result	Config restored to pre-change state.
Validation Criteria	No data loss; Config matches backup
Dependencies	Backup/restore system
Notes	Disaster recovery test.

### Test Case 32: Test entitlement deletion and audit trail update

Test ID	TC_032
Module	Entitlements > Deletion
Category	Functional
Priority	High

Test Type	Positive
Risk Level	Medium
Estimated Time	5 minutes
Description	Verify entitlement deletion is logged in the audit trail.
Objective	Ensure traceability of deletions.
Preconditions	Entitlement exists
Test Steps	Delete entitlement; Check audit trail
Expected Result	Audit log entry created for deletion.
Validation Criteria	Deletion logged
Dependencies	Audit trail
Notes	Compliance requirement.

# **Test Case 33: Test unauthorized API access for entitlement update**

Test ID	TC_033
Module	API > Security
Category	Security
Priority	Critical
Test Type	Negative
Risk Level	High
Estimated Time	3 minutes
Description	Verify API rejects unauthorized requests.
Objective	Prevent unauthorized API access.
Preconditions	API endpoint available
Test Steps	Call API without authentication token; Check response
Expected Result	API returns 401 Unauthorized.
Validation Criteria	401 error returned
Dependencies	API security
Notes	API security check.

## Test Case 34: Test entitlement assignment for users with multiple roles

Test ID	TC_034
Module	Entitlements > Role Management
Category	Functional

Priority	High
Test Type	Positive
Risk Level	Medium
Estimated Time	7 minutes
Description	Verify entitlement assignment logic for users with multiple roles.
Objective	Ensure correct entitlement aggregation.
Preconditions	User with multiple roles exists
Test Steps	Assign entitlements for each role; Check user's cumulative entitlements
Expected Result	User receives all entitlements from assigned roles.
Validation Criteria	All entitlements present
Dependencies	Role management
Notes	Role aggregation logic.

## Test Case 35: Test system behavior when entitlement assignment exceeds daily single limit

Test ID	TC_035
Module	Entitlements > Limit Enforcement
Category	Boundary
Priority	High
Test Type	Negative/Boundary
Risk Level	Medium
Estimated Time	4 minutes
Description	Verify system enforces daily single limit during entitlement assignment.
Objective	Prevent limit breaches.
Preconditions	Daily single limit set
Test Steps	Attempt to assign entitlement above limit; Submit
Expected Result	Assignment blocked; error message shown.
Validation Criteria	Assignment blocked; Error shown
Dependencies	Limit enforcement logic
Notes	Boundary test.

# Test Case 36: Test UI accessibility for entitlement screens (WCAG compliance)

Test ID	TC_036
Module	UI > Accessibility

Category	Usability	
Priority	Medium	
Test Type	Positive	
Risk Level	Low	
Estimated Time	10 minutes	
Description	Verify entitlement screens meet accessibility standards (e.g., keyboard navigation, screen	reader support).
Objective	Ensure accessibility compliance.	
Preconditions	Accessibility tools available	
Test Steps	Navigate screens with keyboard; Test with screen reader	
Expected Result	All features accessible; no accessibility blockers.	
Validation Criteria	All controls accessible	
Dependencies	UI accessibility	
Notes	Covers WCAG compliance.	

# **Test Case 37: Test database rollback on entitlement assignment failure**

Test ID	TC_037
Module	Database > Transaction Management
Category	Error
Priority	Critical
Test Type	Negative
Risk Level	High
Estimated Time	8 minutes
Description	Verify database rolls back changes if entitlement assignment fails.
Objective	Ensure data integrity.
Preconditions	DB transaction management enabled
Test Steps	Start entitlement assignment; Force failure; Check DB state
Expected Result	No partial data saved; DB rolled back.
Validation Criteria	DB state unchanged
Dependencies	DB transaction logic
Notes	Data integrity check.

### Test Case 38: Test system notification for entitlement changes

Test ID	TC_038
Module	Entitlements > Notifications

Category	Functional
Priority	Medium
Test Type	Positive
Risk Level	Low
Estimated Time	5 minutes
Description	Verify users receive notifications when their entitlements are changed.
Objective	Ensure user awareness of changes.
Preconditions	Notification system enabled
Test Steps	Change user entitlement; Check user notifications
Expected Result	User receives notification of change.
Validation Criteria	Notification sent
Dependencies	Notification system
Notes	User communication check.

#### Test Case 39: Test entitlement assignment for non-Egypt region

Test ID	TC_039
Module	Entitlements > Regional Logic
Category	Functional
Priority	Medium
Test Type	Positive/Negative
Risk Level	Low
Estimated Time	6 minutes
Description	Verify entitlement assignment logic for non-Egypt regions.
Objective	Ensure regional logic is not incorrectly applied.
Preconditions	Non-Egypt region user
Test Steps	Assign entitlement to non-Egypt user; Check field visibility and assignment
Expected Result	No Egypt-specific fields or logic applied.
Validation Criteria	Only standard fields visible
Dependencies	Regional logic
Notes	Regional logic test.

# Test Case 40: Test system behavior on entitlement assignment with expired session

Test ID	TC_040
Module	Security > Session Management

Category	Security
Priority	High
Test Type	Negative
Risk Level	Medium
Estimated Time	7 minutes
Description	Verify system blocks entitlement assignment if user session has expired.
Objective	Prevent unauthorized actions.
Preconditions	Session timeout configured
Test Steps	Login; Wait for session to expire; Attempt to assign entitlement
Expected Result	Action blocked; user prompted to login.
Validation Criteria	Action blocked after expiry
Dependencies	Session management
Notes	Session security.

## Test Case 41: Test entitlement assignment with special characters in free format field

Test ID	TC_041
Module	Data Validation > Input Validation
Category	Functional
Priority	High
Test Type	Positive/Negative
Risk Level	Medium
Estimated Time	5 minutes
Description	Verify system only accepts allowed special characters in free-format fields per SWIFT.
Objective	Ensure SWIFT compliance.
Preconditions	Free format field in UI
Test Steps	Enter allowed special characters; Submit; Enter disallowed special characters; Submit
Expected Result	Allowed characters accepted; others rejected.
Validation Criteria	Only allowed chars accepted
Dependencies	SWIFT validation logic
Notes	Covers special char validation.

# **Test Case 42: Test multi-dropdown selection for entitlement parameters**

Test ID	TC_042	
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Module	Entitlements > Parameterization
Category	Functional
Priority	Medium
Test Type	Positive
Risk Level	Low
Estimated Time	4 minutes
Description	Verify multi-dropdown fields allow multiple selections and save correctly.
Objective	Ensure multi-selection works.
Preconditions	Multi-dropdown field present
Test Steps	Select multiple options; Save; Verify selections saved
Expected Result	All selected options saved and displayed.
Validation Criteria	All selections saved
Dependencies	Multi-dropdown implementation
Notes	Multi-select test.

# Test Case 43: Test system behavior for entitlement assignment with invalid dropdown value

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Test ID	TC_043	
Module	Entitlements > Parameterization	
Category	Error	
Priority	High	
Test Type	Negative	
Risk Level	Medium	
Estimated Time	5 minutes	
Description	Verify system rejects entitlement assignment with invalid dropdown value (e.g., tampered pay	yload)
Objective	Prevent invalid parameter values.	
Preconditions	Dropdown field present	
Test Steps	Tamper payload with invalid value; Submit; Check response	
Expected Result	Assignment rejected; error shown.	
Validation Criteria	Invalid value rejected	
Dependencies	Dropdown validation	

# **Test Case 44: Test system logging for failed entitlement assignments**

Test ID	TC_044
Module	Compliance > Logging
Category	Error
Priority	Medium
Test Type	Negative
Risk Level	Low
Estimated Time	4 minutes
Description	Verify system logs failed entitlement assignments with error details.
Objective	Ensure traceability of failures.
Preconditions	Logging enabled
Test Steps	Attempt invalid assignment; Check logs
Expected Result	Error logged with details.
Validation Criteria	Error details in log
Dependencies	Logging system
Notes	Failure traceability.

# Test Case 45: Test entitlement assignment with fixed length field (exact length)

Test ID	TC_045
Module	Data Validation > Field Validation
Category	Boundary
Priority	Medium
Test Type	Positive/Boundary
Risk Level	Low
Estimated Time	3 minutes
Description	Verify system accepts values of exact required length for fixed length fields.
Objective	Enforce fixed length requirement.
Preconditions	Fixed length field present
Test Steps	Enter value of required length; Submit
Expected Result	Value accepted.
Validation Criteria	Accepted if length matches
Dependencies	Field validation
Notes	Fixed length test.

# Test Case 46: Test entitlement assignment with fixed length field (too short/long)

Test ID	TC_046
Module	Data Validation > Field Validation
Category	Boundary
Priority	Medium
Test Type	Negative/Boundary
Risk Level	Low
Estimated Time	4 minutes
Description	Verify system rejects values not matching required length for fixed length fields.
Objective	Prevent incorrect field length.
Preconditions	Fixed length field present
Test Steps	Enter value too short; Submit; Enter value too long; Submit
Expected Result	Values rejected with error.
Validation Criteria	Error for wrong length
Dependencies	Field validation
Notes	Fixed length enforcement.

### Test Case 47: Test entitlement assignment with auto-fill field

Test ID	TC_047
Module	Data Validation > Field Validation
Category	Functional
Priority	Medium
Test Type	Positive
Risk Level	Low
Estimated Time	3 minutes
Description	Verify auto-fill fields populate correctly based on related data.
Objective	Ensure auto-fill logic works.
Preconditions	Auto-fill field present
Test Steps	Trigger auto-fill (e.g., select related field); Check auto-filled value
Expected Result	Field auto-filled with correct value.
Validation Criteria	Auto-fill correct
Dependencies	Auto-fill logic
Notes	Auto-fill feature.

### **Test Case 48: Test user logout functionality**

Test ID	TC_048	

Module	Security > Authentication
Category	Functional
Priority	Medium
Test Type	Positive
Risk Level	Low
Estimated Time	3 minutes
Description	Verify user can log out and session is terminated.
Objective	Ensure session termination.
Preconditions	User logged in
Test Steps	Click logout; Attempt to access protected page
Expected Result	Session terminated; access denied.
Validation Criteria	Session invalidated
Dependencies	Session management
Notes	Basic logout test.

## Test Case 49: Test entitlement assignment with optional fields left blank

Test ID	TC_049
Module	Entitlements > Assignment
Category	Functional
Priority	Low
Test Type	Positive
Risk Level	Low
Estimated Time	2 minutes
Description	Verify system accepts form submission with optional fields left blank.
Objective	Ensure optional fields are not enforced.
Preconditions	Optional fields present
Test Steps	Leave optional fields blank; Submit
Expected Result	Form submitted successfully.
Validation Criteria	Submission succeeds
Dependencies	Field configuration
Notes	Optional field logic.

## Test Case 50: Test entitlement assignment for user with no entitlements

Test ID	TC_050
Module	Entitlements > Assignment
Category	Functional
Priority	Low
Test Type	Positive/Negative
Risk Level	Low
Estimated Time	3 minutes
Description	Verify system handles users with no entitlements gracefully.
Objective	Ensure no errors for zero-entitlement users.
Preconditions	User with no entitlements exists
Test Steps	Login as user; Check entitlement screen
Expected Result	Screen displays 'No entitlements assigned' message.
Validation Criteria	No errors; Message displayed
Dependencies	User setup
Notes	Zero state handling.

## Test Case 51: Test concurrent entitlement assignment by multiple admins

Test ID	TC_051
Module	Entitlements > Assignment
Category	Performance
Priority	High
Test Type	Positive/Negative
Risk Level	Medium
Estimated Time	10 minutes
Description	Simulate multiple admins assigning entitlements at the same time to check for race condition
Objective	Ensure data consistency under concurrency.
Preconditions	Multiple admin accounts
Test Steps	Admin A and B assign entitlements to same user simultaneously; Check final entitlements
Expected Result	No data corruption; latest assignment reflected.
Validation Criteria	No data loss/corruption
Dependencies	Concurrency handling
Notes	Race condition test.

# Test Case 52: Test entitlement assignment with invalid amount format (non-numeric)

Test ID	TC_052
Module	Data Validation > Field Validation
Category	Functional
Priority	Medium
Test Type	Negative
Risk Level	Low
Estimated Time	3 minutes
Description	Verify system rejects non-numeric input in amount fields.
Objective	Prevent invalid amount entry.
Preconditions	Amount field present
Test Steps	Enter 'abc' in amount field; Submit
Expected Result	Input rejected with error.
Validation Criteria	Error for non-numeric input
Dependencies	Amount field validation
Notes	Amount validation.

## Test Case 53: Test entitlement assignment with amount in excess of two decimal places

Test ID	TC_053
Module	Data Validation > Field Validation
Category	Boundary
Priority	Medium
Test Type	Negative/Boundary
Risk Level	Low
Estimated Time	3 minutes
Description	Verify system rejects amounts with more than two decimal places.
Objective	Enforce amount format.
Preconditions	Amount field present
Test Steps	Enter 123.456; Submit
Expected Result	Input rejected with error.
Validation Criteria	Error for >2 decimals
Dependencies	Amount field validation
Notes	Decimal place enforcement.

# Test Case 54: Test entitlement assignment with leading/trailing spaces in alphanumeric fields

Test ID	TC_054
Module	Data Validation > Field Validation
Category	Functional
Priority	Low
Test Type	Negative
Risk Level	Low
Estimated Time	2 minutes
Description	Verify system trims or rejects leading/trailing spaces in alphanumeric fields.
Objective	Prevent invalid formatting.
Preconditions	Alphanumeric field present
Test Steps	Enter value with leading/trailing spaces; Submit
Expected Result	Spaces trimmed or error shown.
Validation Criteria	No spaces in stored value
Dependencies	Field validation
Notes	Alphanumeric field check.

# Test Case 55: Test entitlement assignment with alphabetic-only field containing numbers

Test ID	TC_055
Module	Data Validation > Field Validation
Category	Functional
Priority	Low
Test Type	Negative
Risk Level	Low
Estimated Time	2 minutes
Description	Verify system rejects numbers in alphabetic-only fields.
Objective	Prevent invalid data entry.
Preconditions	Alphabetic field present
Test Steps	Enter 'ABC123' in alphabetic field; Submit
Expected Result	Input rejected with error.
Validation Criteria	Error for numeric input
Dependencies	Field validation
Notes	Alphabetic field enforcement.

## Test Case 56: Test entitlement assignment with dropdown default override

Test ID	TC_056
Module	Entitlements > Parameterization
Category	Functional
Priority	Low
Test Type	Positive
Risk Level	Low
Estimated Time	3 minutes
Description	Verify user can override default dropdown values and changes are saved.
Objective	Ensure user control over defaults.
Preconditions	Dropdowns with defaults present
Test Steps	Change default value; Save; Check saved value
Expected Result	Overridden value saved and displayed.
Validation Criteria	Override saved
Dependencies	Dropdown logic
Notes	Default override.

#### Test Case 57: Test entitlement assignment with checkbox toggle

Test ID	TC_057
Module	Entitlements > Parameterization
Category	Functional
Priority	Low
Test Type	Positive
Risk Level	Low
Estimated Time	2 minutes
Description	Verify checkbox parameters can be toggled and changes are saved.
Objective	Ensure checkbox logic works.
Preconditions	Checkbox parameter present
Test Steps	Toggle checkbox; Save; Check saved state
Expected Result	Checkbox state saved and reflected in UI.
Validation Criteria	State updated
Dependencies	Checkbox logic
Notes	Checkbox parameter test.

## Test Case 58: Test entitlement assignment with future-dated effective date

Test ID	TC_058
Module	Entitlements > Assignment
Category	Functional
Priority	Medium
Test Type	Positive
Risk Level	Low
Estimated Time	4 minutes
Description	Verify system allows entitlement assignment with a future effective date.
Objective	Support future-dated assignments.
Preconditions	Effective date field present
Test Steps	Set future date; Assign entitlement; Check assignment
Expected Result	Entitlement scheduled for future activation.
Validation Criteria	Scheduled correctly
Dependencies	Effective date logic
Notes	Future-dated assignment.

## Test Case 59: Test entitlement assignment with past effective date

Test ID	TC_059
Module	Entitlements > Assignment
Category	Functional
Priority	Medium
Test Type	Negative
Risk Level	Low
Estimated Time	3 minutes
Description	Verify system rejects entitlement assignment with a past effective date.
Objective	Prevent backdated assignments.
Preconditions	Effective date field present
Test Steps	Set past date; Assign entitlement; Check error
Expected Result	Assignment rejected with error.
Validation Criteria	Error for past date
Dependencies	Effective date validation
Notes	Backdating prevention.

# Test Case 60: Test entitlement assignment with maximum number of entitlements per user

Test ID	TC_060
Module	Entitlements > Assignment
Category	Boundary
Priority	Medium
Test Type	Negative/Boundary
Risk Level	Low
Estimated Time	6 minutes
Description	Verify system enforces maximum number of entitlements per user.
Objective	Prevent exceeding entitlement cap.
Preconditions	Max entitlement cap configured
Test Steps	Assign entitlements up to cap; Attempt to assign one more; Check error
Expected Result	Cap enforced; additional assignment blocked.
Validation Criteria	Cap enforced
Dependencies	Cap configuration
Notes	Entitlement cap.

# Test Case 61: Test entitlement assignment with simultaneous API and UI updates

Test ID	TC_061
Module	Integration > Concurrency
Category	Integration
Priority	High
Test Type	Positive/Negative
Risk Level	Medium
Estimated Time	10 minutes
Description	Simulate updating entitlements via API and UI at the same time to check for data consistence
Objective	Ensure no conflicts between API and UI updates.
Preconditions	API and UI access
Test Steps	Update entitlement via API; Simultaneously update via UI; Check final state
Expected Result	No data corruption; latest update reflected.
Validation Criteria	No data loss/corruption
Dependencies	API and UI
Notes	Concurrency integration.

## Test Case 62: Test system response to entitlement assignment when database is unavailable

Test ID	TC_062
Module	Database > Error Handling
Category	Error
Priority	Critical
Test Type	Negative
Risk Level	High
Estimated Time	6 minutes
Description	Verify system handles DB outages gracefully during entitlement assignment.
Objective	Prevent crashes and provide user feedback.
Preconditions	Ability to simulate DB outage
Test Steps	Simulate DB outage; Attempt entitlement assignment; Check error handling
Expected Result	User receives error; system does not crash.
Validation Criteria	Graceful error; No crash
Dependencies	Error handling logic
Notes	Resilience test.

# Test Case 63: Test compliance with regulatory reporting for entitlement changes

Test ID	TC_063
Module	Compliance > Regulatory Reporting
Category	Functional
Priority	Critical
Test Type	Positive
Risk Level	High
Estimated Time	7 minutes
Description	Verify all entitlement changes are reflected in regulatory reports.
Objective	Ensure regulatory compliance.
Preconditions	Regulatory reporting enabled
Test Steps	Change entitlement; Generate report; Verify change in report
Expected Result	Change appears in regulatory report.
Validation Criteria	Change in report
Dependencies	Reporting system
Notes	Regulatory requirement.

## Test Case 64: Test system behavior on entitlement assignment with simultaneous user deletion

Test ID	TC_064
Module	Entitlements > Assignment
Category	Error
Priority	High
Test Type	Negative
Risk Level	Medium
Estimated Time	8 minutes
Description	Simulate assigning entitlement while user is being deleted to check for error handling.
Objective	Ensure system handles race conditions gracefully.
Preconditions	User deletion and assignment can be triggered simultaneously
Test Steps	Start entitlement assignment; Simultaneously delete user; Check system response
Expected Result	Assignment blocked; error message shown.
Validation Criteria	No assignment to deleted user
Dependencies	User management
Notes	Race condition check.

## Test Case 65: Test system recovery after entitlement assignment failure and rollback

Test ID	TC_065
Module	Database > Recovery
Category	Error
Priority	Critical
Test Type	Positive/Negative
Risk Level	High
Estimated Time	10 minutes
Description	Verify system can recover from entitlement assignment failure and resume normal operation
Objective	Ensure system stability after errors.
Preconditions	Ability to simulate failure
Test Steps	Simulate assignment failure; Rollback DB; Attempt new assignment
Expected Result	System resumes normal operation; new assignment succeeds.
Validation Criteria	System resumes; No residual errors
Dependencies	Recovery procedures
Notes	Recovery scenario.