

# **Test Plan**

## **1. Introduction**

The purpose of this test plan is to validate the functionality of upgrading a regular individual investor account to a premium account. The process involves verifying the eligibility criteria, document upload functionality, compliance team workflows, and notifications to ensure a seamless and secure user experience.

## **2. Scope**

### **In Scope:**

- Verification of the "Upgrade to Premium" button functionality.
- Eligibility criteria selection.
- Document upload and validation process.
- Notifications for users and relation managers.
- Compliance team workflow (viewing, approving, or rejecting requests).

### **Out of Scope:**

- Backend services not directly related to the upgrade process.
- Non-individual user accounts (e.g., corporate or organization accounts).
- Non-premium account features.

## **3. Objectives**

- Ensure verified individual users can upgrade to a premium account without issues.
- Validate that the system restricts unverified users from accessing the premium upgrade feature.
- Confirm proper notification mechanisms for users and relation managers.
- Verify that compliance workflows (approval/rejection) function correctly.

## **4. Test Approach**

### **Testing Levels:**

- 1. Functional Testing**
  - Test the eligibility criteria selection and document upload process.
- 2. Integration Testing**
  - Validate interactions between the user interface, compliance team, and notification systems.
- 3. Negative Testing**
  - Test scenarios with invalid inputs (e.g., missing eligibility selection, invalid documents).
- 4. Performance Testing**
  - Measure response times for document uploads and system notifications.

## 5. UI/UX Testing

- Ensure user-friendly design and intuitive navigation.

### Testing Types:

- **Manual Testing:** For UI/UX and edge cases.
- **Automation Testing:** For repetitive workflows like eligibility selection and notification triggers.

## 5. Test Deliverables

- Test Cases and Scenarios (Acceptance and Edge Cases).
- Test Execution Results.
- Defect Reports.
- Test Summary Report.

## 6. Resources

### Test Environment:

- Web Application: Staging and Production environments.
- Devices/Browsers: Chrome, Firefox, Edge, Safari.

### Test Data:

- Verified user accounts with valid and invalid eligibility criteria.
- Documents in different formats (PDF, JPEG, PNG) and sizes.

### Tools:

- Selenium WebDriver (for automation).
- TestNG (test management).
- JIRA (defect tracking).
- Postman (API testing, if required for notification validations).

## 7. Roles and Responsibilities

Role	Responsibility
QA Lead	Review and approve test plan and cases.
Test Engineers	Write and execute test cases, report defects.
Developers	Fix defects and provide build support.
Compliance Team	Review upgrade requests and verify workflows.

## 8. Risks and Mitigation

Risk	Mitigation Plan
Document upload fails due to file size or format issues.	Validate file format and size limits during upload.
Notifications not being triggered.	Monitor logs and implement retry mechanisms for notifications.
Compliance team approval delays.	Set reminders or escalation triggers for pending requests.

## 9. Test Execution Plan

- **Phase 1:** Unit Testing (conducted by developers).
- **Phase 2:** Functional Testing (manual and automated).
- **Phase 3:** Integration Testing (validation of user-compliance system interactions).
- **Phase 4:** UAT (User Acceptance Testing with stakeholders).

## 10. Test Closure

- All test cases executed, and defects resolved.
  - Test summary report prepared and reviewed.
  - Approval from stakeholders to release the feature to production.
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## Risk-Based Testing (RBT) for the User Story

### 1. Identifying Risks

- **Critical Risks:**
    - Users unable to upload documents due to file validation issues.
    - Compliance team unable to review or approve the upgrade request.
    - Notifications not being triggered for the user or relation manager.
    - Missing or incorrect data during the upgrade process.
  - **Moderate Risks:**
    - Inability to select the required eligibility criteria (e.g., no options displayed).
    - Performance issues in loading documents or criteria selection.
    - File format or size limitations affecting document uploads.
  - **Low Risks:**
    - UI/UX issues such as misaligned fields or buttons.
    - Typographical errors in error or confirmation messages.
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### Test Cases for Each User Story (Acceptance and Edge Cases)

#### Test Suite 1: Upgrade Button Functionality

##### Acceptance Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC01	Verify "Upgrade to Premium" button is displayed for verified users	High	The "Upgrade to Premium" button is visible and clickable.
TC02	Click "Upgrade to Premium" button	High	User is redirected to the eligibility criteria selection page.

##### Edge Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC03	Verify "Upgrade to Premium" button is not visible for unverified users	High	Button is hidden or disabled for unverified users.
TC04	Click "Upgrade to Premium" while logged out	Medium	User is redirected to the login page.

## Test Suite 2: Eligibility Criteria Selection

### Acceptance Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC05	Select "Do you have assets worth amount 3 million SAR?"	High	The option is selectable, and the "Next" button is enabled.
TC06	Select "Do you work or have worked in the financial sector for 3+ years?"	High	The option is selectable, and the "Next" button is enabled.
TC07	Select "Do you have a certificate in finance/investment?"	High	The option is selectable, and the "Next" button is enabled.
TC08	No option selected and clicking "Next"	High	Error: "Please select at least one eligibility option."

### Edge Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC09	Select all options	Medium	All options are selectable; user can proceed.

## Test Suite 3: Document Upload Functionality

### Acceptance Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC10	Upload a valid document for the selected option	High	Document uploads successfully, and a confirmation message is displayed.
TC11	Verify successful notification after document upload	High	User receives a notification confirming the upload.
TC12	Upload invalid file format	High	Error: "Invalid file format. Please upload PDF, JPEG, or PNG files only."
TC13	Upload file larger than the allowed size	High	Error: "File size exceeds the maximum limit (e.g., 5 MB)."

#### Edge Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC14	Upload multiple documents for the same option	Medium	All documents are uploaded, and the latest document overwrites the previous.
TC15	Interrupt the document upload process	Medium	Upload is canceled, and the user can retry.

#### Test Suite 4: Compliance Team Review

##### Acceptance Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC16	Compliance team views the upgrade request	High	Request is visible in the compliance team dashboard.
TC17	Compliance team approves the upgrade request	High	Approval status is updated, and the user is notified.

##### Edge Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC18	Compliance team rejects the upgrade request	Medium	Rejection status is updated, and the user is notified with the reason.

#### Test Suite 5: Notifications

##### Acceptance Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC19	Notify relation manager about the request status	High	Relation manager receives an email or in-app notification.
TC20	Notify user about successful document upload	High	User receives an in-app notification confirming successful upload.

Edge Test Cases

Test ID	Test Case Description	Priority	Expected Result
TC21	Notification fails due to system downtime	Medium	Error message is logged, and retry is attempted.

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Test Runs

Test Run 1: Happy Path

- Objective: Verify that a verified user can upgrade to premium by selecting eligibility criteria, uploading valid documents, and receiving notifications.
- Test Cases: TC01, TC05, TC10, TC11, TC16, TC19.

Test Run 2: Negative Testing

- Objective: Validate the system's response to invalid inputs or missing data.
- Test Cases: TC03, TC04, TC08, TC12, TC13.

Test Run 3: Edge Case Testing

- Objective: Test edge scenarios like multiple document uploads and simultaneous notifications.
- Test Cases: TC09, TC14, TC15, TC18, TC21.

Test Run 4: Compliance Workflow

- Objective: Validate the compliance team's ability to process the upgrade request.
- Test Cases: TC16, TC17, TC18, TC19.