### **Test Plan**

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#### **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. |

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#### **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.

### **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.

### **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. |

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#### **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)." |

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##### **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. |

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##### **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. |

### **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.