

Title: Corporate Investor - Commercial Registration Verification Via [X]

Test Plan

Objective: Ensure the commercial registration verification process through a third-party service ([X]) is reliable, accurate, and handles valid, invalid, and negative start date scenarios effectively.

Scope:

1. Functional Testing:
 - a. Verify the system sends commercial registration numbers to [X].
 - b. Validate the handling of valid and invalid data.
 - c. Ensure proper processing of start date validation logic.
2. Non-functional Testing:
 - a. Ensure performance and response times for communication with [X].
 - b. Test scalability for handling multiple simultaneous verification requests.

Entry Criteria:

1. System integration with [X] is complete.
2. Test cases for the user story are documented.
3. The feature is developed and deployed in the test environment.
4. Completion of dev documentation.

Exit Criteria:

1. All high-severity bugs are resolved.
2. Verification and validation processes work seamlessly across scenarios.

Risk-Based Testing (RBT)

1. Third-Party Service Reliability:
 - a. Risk: Service [X] fails or responds incorrectly.
 - b. Mitigation: Test with mock responses for failures, timeouts, and unexpected outputs.
2. Data Validation Logic:
 - a. Risk: Incorrect handling of invalid numbers or start date thresholds.
 - b. Mitigation: Verify all edge cases for validation.

3. User Experience:
 - a. Risk: Poor error messaging or unclear instructions for invalid inputs.
 - b. Mitigation: Ensure meaningful and actionable error messages are displayed.

Possible Test Cases

Acceptance Criteria Test Cases

Scenario 1: Valid Data

1. Valid Commercial Registration Verification:
 - a. Verify that the system sends the commercial registration number to [X].
 - b. Validate the system proceeds to the validation process when [X] confirms the number is valid.
2. Success Notification:
 - a. Ensure a success message or progress indicator is displayed to the user.

Scenario 2: Invalid Data

1. Invalid Commercial Registration Number Handling:
 - a. Verify the system displays an error message when [X] indicates the number is invalid.
 - b. Validate that the system allows users to input a new commercial registration number.
2. Revalidation with Corrected Data:
 - a. Ensure the system restarts the verification process with the updated commercial registration number.

Scenario 3: Validation for Start Date is Negative

1. Company Start Date Less Than Two Years:
 - a. Verify that the system notifies the user if the start date (output number: 15) is less than two years.
 - b. Ensure the user cannot proceed to the next step.
2. Company Start Date More Than Two Years:
 - a. Validate that the system allows the user to proceed if the start date is more than two years.

Edge Cases

1. Test the behavior when no registration number is provided during the input phase.
2. Simulate a scenario where [X] does not respond within the expected time.
3. Verify that the system retries the request or notifies the user of the delay.

4. Validate that the system rejects registration numbers in an unsupported format before sending them to [X].
5. Ensure the system handles multiple corporate users submitting verification requests at the same time without performance degradation.
6. Test the behavior if [X] returns incomplete or malformed responses.

Test Runs

Run 1: Functional Testing

Run 2: Load Testing

Run 3: Negative Testing

Run 4: Regression Testing