TEST PLAN (STP)

United Midwest Savings Bank – SBA System

VERSION 1.0

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# Introduction

## Purpose

The objective of this test plan is to guide the test team in testing for the UMWSB-SBA system.

The objectives are as follows:

• Provides a framework as to which testing activity will be conducted.

• Build consciousness on test needs and focus test plan effort on most important items

• Identify the risks and gives what are steps are being used to mitigate those problems.

## Scope

The Scope of the STP is to define the testing approach, Types of testing to be conducted, schedule for the testing phases and assist in testing all business requirements.

## Definitions, Acronyms and Abbreviations

| **Term / Abbreviation** | **Description** |
| --- | --- |
| FS | Software Requirements Specification / Functional Specifications |
| STP | Software Test Plan |

## Target Audience

1. Project Manager
2. Test Engineers
3. Clients

## References

Functional Specification Document of **United Midwest Savings Bank -SBA System, Wire frames document**

# Test Description

## Overall Approach

Feature to be tested

Register as Applicant and Apply Loan

* Register as Applicant.
* Add Co-Owner.
* Apply Loan.
* Forgot Username.
* Forgot Password.

Co-Owner Login and Functionality

* Register with the link sent by the Owner
* Login as Co-owner
* View the application form.
* Update their individual details.

Login as Admin and its functionalities

* Admin creates new Admin and UMWSB users
* Assign roles as Reviewer, Packager, Closer and Compliance
* Admin manages User accounts
* Admin manages application user account
* Admin Exports Application Data
* Admin views Stats
* Admin manage Franchise Codes

Login as UMWSB (Bank) user (Reviewer)

* Reviewer reviews CRIF approved applications as per FS
* Reviewer moves to package or Decline.

Login as UMWSB user (Packager)

* Packager reviews CRIF and Need reviews approved applications
* Packager Export the application as pdf document
* Packager moves to Underwriter or Decline.

Login as UMWSB user (Underwriter)

* Underwriter review the application which is approved by Packager.
* Underwriter moves the application to Closing or Declines or Move to Packaging.

Login as UMWSB user (Closer)

* Closer review the application which is approved by Underwriter.
* Closer moves the application to Funded, Move to Underwriting or Decline the application.

Login as UMWSB (Bank) user (Compliance)

* See the option to print compliance data.

## Test Environment

Latest versions of Browsers (IE, Mozilla, Chrome, Edge and Safari)

## 2.3 Test Stop/ Suspension/Resumption Criteria

# 2.3.1 Suspension

The following are circumstances under which, Excelencia will suspend the testing

* Encountering the showstopper at the application level (or) showstopper at the module level which is critical for the functioning of the application
* On Transfer of the Wrong Soft base
* On Failure of Test Environment
* Any other circumstances (or) situations when the test team is conceived that the testing can’t be continued.

# 2.3.2 Resumption

Excelencia Project Manager will resume the suspended testing on resolving the situation, which resulted in the suspension (or) on the specific request from client.

# 2.3.3 Exit Criteria

* All the Planned Test scripts should be executed and if there is any pending, necessary reason should be provided.
* On Preparation of final analysis report.

## 2.4 Test Strategies for Unit, Smoke, Integration and System Testing

### 2.4.1 Unit Testing

It is a level of software testing where individual units/ components of a software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output.

### 2.4.2 Smoke Testing

Smoke testing covers most of the major/critical functions of the software but none of them in depth. The result of this test is used to decide whether to proceed with further testing. If the smoke test passes, go ahead with further testing. If it fails, halt further tests and ask for a new build with the required fixes. If an application is badly broken, detailed testing might be a waste of time and effort.

### 2.4.3 Integration Testing

It is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing.

### 2.4.4 System Testing

It is a level of software testing where a complete and integrated software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements.

### 2.4.5 Load Testing

It is the simplest form of testing conducted to understand the behavior of the system under a specific load. Load testing will result in measuring important business critical transactions and load on the database, application server, etc., are also monitored.

### 2.4.6 Performance Testing

Performance testing, a non-functional testing technique performed to determine the system parameters in terms of responsiveness and stability under various workload. Performance testing measures the quality attributes of the system, such as scalability, reliability and resource usage

## 2.5 Coverage Criteria

Where test cases relate to requirements to ensure that all the requirements / enhancements are available in the test cases with the correct level of coverage. Test case review points will be captured in the review report and sent to the appropriate Manager/ Lead / tester to close the review points. For each iteration of test case review, version history and the status of the test cases will be maintained. Once all the review points raised by the reviewer have been closed by the author. the test cases will be authorized by the Project Manager and passed on for full approval.

## 2.6 Defect Tracking and Reporting

The failure cases will be logged in the Issue Tracker (Jira). The Development Team Lead will take the defects from the Issue Tracker (Jira) and he will assign them to the respective developers. The testing team uses the Issue Tracker (Jira) to track the defects status. The defects will be categorized into various levels, based on the priority. The response to the defects must be as per the service level agreement.

**New:** When a new defect is logged and posted for the first time. It is assigned a status as NEW.

**Assigned:** Once the bug is posted by the tester, the lead of the tester approves the bug and assigns the bug to the developer team

**Open:** The developer starts analyzing and works on the defect fix

**Fixed**: When a developer makes a necessary code change and verifies the change, he or she can make bug status as "Fixed."

**Pending retest:** Once the defect is fixed the developer gives a code for retesting the code to the tester. Since the software testing remains pending from the testers end, the status assigned is "pending request."

**Retest**: Tester does the retesting of the code at this stage to check whether the defect is fixed by the developer or not and changes the status to "Re-test."

**Verified:** The tester re-tests the bug after it got fixed by the developer. If there is no bug detected in the software, then the bug is fixed, and the status assigned is "verified."

**Reopen:** If the bug persists even after the developer has fixed the bug, the tester changes the status to "reopened". Once again, the bug goes through the life cycle.

**Closed:** If the bug is no longer exists then tester assigns the status "Closed."

**Duplicate:** If the defect is repeated twice or the defect corresponds to the same concept of the bug, the status is changed to "duplicate."

**Rejected**: If the developer feels the defect is not a genuine defect then it changes the defect to "rejected."

**Deferred:** If the present bug is not of a prime priority and if it is expected to get fixed in the next release, then status "Deferred" is assigned to such bugs

**Not a bug**: If it does not affect the functionality of the application then the status assigned to a bug is "Not a bug".

## 2.7 Risks and Contingencies

* Out of date/inaccurate requirements definition/functional specification(s).
* Lack of unit testing.
* Testing resources
* Lack of time

## 2.8 Schedule and Resources

|  |  |  |  |
| --- | --- | --- | --- |
| Phase. | Days | Start Date | End Date |
| Test case Preparation | 30 | 01/10/2019 | 05/05/2019, completed sprint wise |
| Test Execution | 40 | 01/30/2019 | Till date |

## 2.9 Product and Deliverables

|  |  |  |
| --- | --- | --- |
| Deliverables | Description | Tools |
| Test Cases | Application functionality, data transaction, data integrity, system performance and Business process flow. | MS Excel/Jira |
| Test Plan Document | It gives detailed plan for testing coverage, scope of the testing, methodologies to be used, tasks to be performed, schedules, Risks and Dependences. | MS Word |
| Review Report | It consists the Release Documentation issues, Hand over documents issues and rolled forward issues that are raised during each phase | MS Word |
| Release Documents | It consists of all documents from Manufacturing Handover to Beta Handover. | MS Word |

## 2.10 Test team and Responsibilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Item** | **Test Plan Preparation Responsibility** | **Planned Date for Plan** | **Testcases Development Responsibility** | **Planned Date for Development** | **Test Execution Responsibility** | **Planned Date for Execution** |
| 1 | Muhammed Zubair | 01/08/2019 | Leninkumar, Deepha Rajendran | \*\*05/03/2019  \*\* pending CRIF clarifications and subsequent code changes | Leninkumar, Deepha Rajendran | Starting 01/15/2019 |

# Test Deliverables

Software Test Plan.

Test Cases.

Software Requirement Traceability matrix.

Defect Reports.

Test Summary Report