

***ESCROW RIGHT***

**Test Plan**

**Revision History**

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 21 /12/2022 | V1.0 | Draft | STEPHEN NSUMEI |
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**References**

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# INTRODUCTION

This document is the Test Plan for **‘ESCROW RIGHT’** web application**.** The Software Testing Techniques to be used and the horizon to cover on the solution before the final release to production environment will be described in this test plan. Other materials needed for successful completion of the project can also be found in this test plan which includes three (3) features that encourages marketability of the Management System.

The horizon of this plan is to cover Escrow Right web application with it’s crucial functionalities. The type of test that would be conducted on this solution is System Test.

## OVERVIEW

Escrowright offers a friendly and flexible service, tailored to your needs. We are aware that there is no one-size-fits-all for commercial escrow services. You can Create an escrow transaction in as little as 1 minute. Your funds are held securely in a transactional escrow bank account created just for that transaction. And You can also Open an Escrow Right account for your Business or Personal needs. Create milestone transactions, integrtate our APIs and enjoy the ability to fully customise the details of your transactions.

# ITEMS TO BE TESTED

* Sign Up
* Login
* Dashboard

Please refer to section 4 for features to be tested.

# SOFTWARE RISK ISSUES

Below is a list of issues that might constitute risk to testing:

* Changing requirements - Initial requirements should be maintained where feasible. Where modifications are in-avertable, they should be adequately reflected in related schedule and go through the proper change process. Additional requirements can also be moved to a later phase of system development.
* Delivering additional solutions requiring testing which were initially not included in the list of requirements earlier forwarded to the testing team
* Management commitment and support - Inadequate commitment or support from

management can also be risky to the test process

* Allocation of appropriate time frame - Sufficient time needs to be allocated to testing of the system. However, if time allocated for testing is not sufficient or gets reduced due to unforeseen contingencies, then Risk Analysis will be used to determine which areas are high priorities to the business.
* Defect Resolution Turn Around Time – Delay in resolution of defects raised during testing can affect the project adversely.
* Untimely deployment of the full solution to the test environment

# FEATURES TO BE TESTED

* Ensure that user can CREATE ACCOUNT by filling in a valid email address and other valid required details
* Ensure that that user cannot CREATE ACCOUNT by filling in an invalid email address and other valid required details
* Ensure that user cannot make a successful withdrawal after typing a invalid pin.
* To ensure that user cannot CREATE ACCOUNT by not filling in an email address but fills other valid required details
* Ensure that user can CREATE ACCOUNT by filling in a valid phone number and other valid required details
* Ensure that user cannot CREATE ACCOUNT by filling in an invalid phone number(adding special characters and letter) and other valid required details
* Ensure that user cannot CREATE ACCOUNT by not filling in phone number but other valid required details
* Ensure that user can see surmmary of transaction and that all the buttons on the sidebars are clickable On the Dashboard

# FEATURE NOT TO BE TESTED

Feature relating to;

* Hardware Requirements

# APPROACH

## Test Levels

Two cycles (including regression testing) of system test is planned for this solution.

### 6.1.1.1 Test Cycle1

|  |  |
| --- | --- |
| **Step** | **Action** |
| 1 | Develop test script  Action of each test will be referred to as “Pass or Fail”  Run a first level test from end to end  All issues noted in test one will be recorded on Issues Log |
| 2 | Test team will define defect rating, severity and impact |
| 3 | The rating of the defect will define if test should be discontinued or test team should move to the next stage of testing. |
| 4 | All defects will be filled out in a "Defect Logging Form" |
| 5 | Defects shall be forwarded to development team for rectification |

### 6.1.1.2 Test Cycle 2

|  |  |
| --- | --- |
| **Step** | **Action** |
| 1 | Develop test script |
|  | Action of each test will be referred to as “Pass or Fail”  Run a first level test from end to end  All issues noted in test one will be recorded on Issues Log |
| 2 | Test team will define defect rating, severity and impact |
| 3 | The rating of the defect will define if test should be discontinued or test team should move to the next stage of testing. |
| 4 | All defects will be filled out in a "Defect Logging Form" |
| 5 | Defects shall be forwarded to development team for rectification |

## Test Strategy

The strategy to be adopted for this project is as follows:

* Perform a basic (normal) flow test to ensure that the user requirements are met as detailed under features to be tested
* Perform negative tests and branch flows

## Change Control

All changes, enhancements and other modification requests to the system will be handled through the published change control procedures within First Bank.

## Environmental Needs

The available test environment will be used for the system test activities.

## Meetings

Stand up discussions will be held when required for clarification and defects agreement purposes

## Measures and Metrics

The following information will be collected by the test team during the testing phase.

1. Defects by priority and severity.
2. Defect Origin (Requirement, Design)
3. Test Summary Report (execution result)
4. Issue Log

# ITEM PASS/FAIL CRITERIA

Test Items shall be classified as pass/fail. All passed test items shall be noted satisfied while all “failed” items shall be treated as defect and passed to the developer.

# ENTRY AND EXIT CRITERIA

## Entry Criteria – System Test

System Testing will start when

* IT Change Manager has given approval for Build and Test
* Baseline document submission;
* Functional Requirement Document (FRD)
* System Design Specification (SDS)
* Code review sign off has been submitted by the Developer
* User review confirmation with stakeholders has been submitted by the Developer
* Project creation on Team Foundation Server via the SDLC workflow
* All interfaces to the application have been confirmed ready.
* Test environment is in place and free for System Test use.
* EPMO approval received

## Exit Criteria – System Test

Test Team shall consider testing completed and shall sign-off testing only when all listed conditions have been fulfilled.

* All testing identified in the "Test Plan" has been completed
* No defects classified with severity as "Critical" exist
* No defects classified with priority as "High" exist
* Less than 3 defects classified as priority "Medium" exist
* Less than 6 defects classified as priority "Low" exist
* When the business agrees that test activities should be suspended

The System testing phase will be signed off by FBN IT Quality Management Unit

# SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTs

## Suspension Criteria

System testing will be suspended if any of the following occurs

* Unavailability of external dependent systems (interfaces) during execution
* Unavailability of the Test Environment
* When a defect is introduced that cannot allow any further testing
* A specific holiday shuts down both development and testing
* If the number or type of defects reaches a point where the continuation of test has no value and makes no sense to continue the test execution

## Resumption Requirements

In the event that system testing is suspended resumption criteria will be specified and testing will not re-commence until the software reaches these criteria:

* When the external dependent systems become available again
* Test Environment becomes available again
* When a fix is successfully implemented and the Testing Team is notified to continue testing
* The holiday period ends
* A new build is delivered

**Note:** Suspension criteria assume that testing cannot go forward and that going backward is also not possible. A failed build would not qualify as system test can progress using the previous build. Most major or critical defects would also not constitute suspension criteria as other areas of the system could continue to be tested.

# TEST DELIVERABLES

The following are deliverables of the test exercise

* Test Plan (includes test scenarios)
* Defects Log
* Issues Log (if any)
* Test Summary Report

# STAFFING AND TRAINING NEED

Not Applicable

# RESPONSIBILITIES

Test Analyst: The Test Analyst would be responsible for system test execution, defect reporting and confirmation of resolved defects

Developer: The developer would be responsible for defect fix

# SCHEDULE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Baseline Start | Baseline  Finish | Actual Start | Actual  Finish | Test  Cycle(s) | No of  Defect | Comments |
|  |  |  |  |  |  |  |

# PLANNING RISKS AND CONTIGENCIES

|  |  |  |
| --- | --- | --- |
| Risks | Impact | Mitigation |
| Test Environment – Not having a dedicated test environment can  hold testing up.    Unavailability of the test environment when the test  execution is to be carried out can also hold testing up.    All these risks will affect the testing delivery time. | High | Provide dedicated environments for System test and the test environment should be up and running at all time. |
| Defect Resolution Time – There is a need to agree on defects  resolution time. A severity 1 defect for instance will mean that the system cannot be used which  means that testing will come to a stop. This will have an impact on the testing time lines. | High | Turnaround time for fixing Severity 1 and 2 defects need to be agreed |

In addition to the above the Software risk issues identified in section 2 of this document should be noted.

# APPROVALS

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| --- | --- | --- | --- | --- |
| **Name** | **Department** | **Position** | **Signature** | **Date** |
| STEPHEN NSUMEI | Information  Technology | Test Consultant |  | **21/11/2022** |
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