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**Task 3**

***Part 1***

**Software Test Plan**

**for**

**Guru99 Bank Website**

**Software Testing and Quality Assurance**

Prepared by:

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For:



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# Test Items

In this section is provided a list of all the functionalities that have been identified as test items for the Guru99 Bank website.

* Sign in
* Create New Customer
* Edit Customer
* Delete Customer
* Create New Account
* Edit Account
* Delete Account
* Deposit
* Withdrawal
* Fund Transfer
* Change Password
* Balance Enquiry
* Mini Statement
* Customised Statement
* Log-out

# Features To Be Tested

The table below contains the feature that will be tested. It also provides a priority code where 1 indicate top priority and 3 lower priority.

|  |  |  |
| --- | --- | --- |
| **Features** | **Priority** | **Description** |
| Sign in | 1 | Access the website with admin credentials |
| Create new customer | 1 | Add a new customer and assign a customer Id |
| Edit customer | 2 | Modify a customer’s address |
| Delete customer | 2 | Delete the customer with the specified Id |
| Create new account | 1 | Add an account to the specified customer |
| Edit account | 2 | Modify the specified account type |
| Delete account | 2 | Delete the specified account |
| Deposit | 1 | Deposit money into the specified account |
| Withdrawal | 1 | Withdrawal money from the specified account |
| Fund transfer | 1 | Transfer money between two accounts |
| Change password | 1 | Change and confirm a new password |
| Balance enquiry | 1 | Show to the user the amount of money on a specific account |
| Mini statement | 1 | Shows the last five transactions of a specific account |
| Customised statement | 1 | Shows the transactions on an account filterd by date and amount. |
| Log-out | 3 | Log out the user |

# Features Not To Be Tested

|  |  |
| --- | --- |
| Features | Description |
| Database | No access to the database has been give. The database is assumed to work properly |
| Network security | Network security is out of scope in this scenario |
| Cross browser compatibility | Out of scope. Different browser can be quickly checked visually. |
| Mobile responsiveness | Out of scope. Different browser can be quickly checked visually. |

# Approach

The test will be done manually, simulating the interactions of the intended user with the system.

* **The requirements to be tested are identified**

It involves familiarising with the system. The functionalities, their relationships and how different users would interact with the system are identified.

* **The test scripts are written down according to the requirements**

The methods for testing each functionality are identified and noted to create the test scripts.

* **The test data are identified or created**

The data necessary to run the tests are identified if already available or created anew if not. They satisfy the requirements of each test script and include data that would result in both successful and unsaccessful operations.

* **The expected results of each test are identified**

For each test script the expected result is defined and noted.

* **The test logs and the test sheet are created**

The tables to register the tests as they are run are created.

* **The test environment is cleaned and configured for the tests.**

The test environment is set up. The browser is prepared for testing and any configuration that may interfere with the testing process is noted down for replication.

* **The test is performed**

The test are run as indicated on the test scripts

* **The actual test results are checked against the expected test result**

The results are checked and noted down. Any variance is highlighted.

* **The tests are documented in the test log and in the test sheet**

As the test progress, the test sheet is filled in with the test details and the test results

* **The test report is produced with the results derived from the test. Any failed result is Highlited**

A summary of the findings emerged from the test log and the test sheet is created. Any variance in the result is highlighted.

* **The test report is reviewed and submitted to management for feedback.**

The report is reviewed by the tester before being submitted to mangement for the sign-off.

# Pass/Fail Criteria

* According for the given test script, the expected result should take place for the test to be considered passed. Otherwise the test will be considered failed.

The expected result does not necessarily concide with a positive outcome from the feature tested. Some tests are designed so that to be considered passed, the operation must fail (eg. entering a wrong password would fail the login as expected).

* If a test is repeated more than one time and in every case but on it will pass, the test will still be considered failed.
* System crash will be considered as a fail case.

# Testing Process

The test will be executed in order as they appear on the tests script. A test log will identify the test suite and a test shit will be used to detail the test items and the related results.

For this test cycle, the failure of a test case wouldn’t compromise the other tests to take place, unless the pre-condition necessary for a tet case cannot be met anymore.

Below is a sample of the test log and the test sheet.

|  |  |
| --- | --- |
| Test Name: |  |
| Test Case Author: |  |
| Tester Name: |  |
| Project ID / Name: |  |
| Test Cycle ID: |  |
| Date Tested: |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Test Objective ID | Category | Condition | Expected Results | Actual Results | Requirement ID |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

For this test activity a single tester is considered sufficient. The tester will report directly to

The manager.

The tester is responsible for the production of the following documents:

* Test plan (this document)
* Test script
* Test log and test sheet
* Test report

Each document is expected to be reviewed and approved by the manager.

The tester will have access to the spaces and resource of the IOTA.

Due to the Covid-19 pandemic, the tester is allowed to use personal resources to conduct the test.

The entire test suite is expected to last for one week from the commencement date.

# Environmental Requirements

* Access to the guru99 bank website
* Access with admin credentials
* Computer with a web browser and internet access

# Change Management Procedures

The following procedure is in place to manage change:

* **Formally request a change**
* **Categorize and prioritize the change**
* **Analyse and justify the change**
* **Approve and schedule the change**
* **Plan and Complete implementation of the change**
* **Post-implementation Review.**

# Plan Approval

For confirmation of review and approval, this document must be signed by the test manager.

Date:

|  |
| --- |
|  |

Signed:

|  |
| --- |
|  |