**Project Name:** ONLINE BANKING SYSTEM

**Test Engineer:** Abhi Kondeti and Ajay Kumar Koyya

**Date:**28/12/2022

**Prepared by:**Neelima

**Version:**1.0

1. **Test Objective or Aim**

The objective of the test is to verify that the functionality of ONLINE BANKING SYSTEM – login, add and remove account, deposit and withdrawal of money modules. 

1. **Scope of testing**

**a. Within the Scope**

* Verify login.
* Verify add savings and remove savings account.
* Verify deposit and withdraw.

**b. Out of the scope**

* Automation testing
* Performance testing

1. **Test Strategy**

A. Levels of Testing

* **System testing:** Conducted on a complete, integrated system to evaluate the system’s compliance with its specified requirements

B. Types of Testing

1. **Black box testing:** It is some time called behavioral testing or partition testing. This kind of testing focuses on the functional requirements of the software. It enables one to derive sets of input conditions that will fully exercise all functional requirements for a program.
2. **Manual Testing:**
3. **Integration Testing:** Integration testing is systematic technique for constructing the program structure while conducting test to uncover errors associated with interacting. In Report, integration testing includes the testing Report from respective locations.
4. **Functional Testing:** Functional testing is carried out in order to find out unexpected behavior of the report.

c) **Test Design Techniques**

* BVA
* EP

d) **Configuration Management Tool:**

* GIT

e) **Terminology:**

* Test Plan
* Test Scenarios
* Test Cases
* Defect log
* RTM

4. **Entry and Exit Criteria:**

a. **Entry Criteria:**

* Build available for testing
* Test data ready to test execution
* Test Scenario and Test cases are created
* Test cases are developed and ready

b. **Exit Criteria:**

* All the Test cases are executed
* Defect not fixed are of low severity

5. **Test deliverables:**

* Test Plan
* Test Scenario
* Test Case
* Test logs

6. **Roles and Responsibilities:**

* Test Engineer – Abhijit and Ajay Kumar – Developed java code, database connection and creation.
* Neelima – Prepared test plan.
* Fazal Basha, Varshitha – Prepared test scenarios, test cases, defect logs and RTM.
* Maddala Rajesh – Prepared requirement document.

7. **Risks and Mitigation:**

* Lack of personal resources when testing is to begin.
* Lack of availability of required hardware, software, data or tools.
* Late delivery of the software, hardware or tools.
* Review Test plan and modify components
* Restore data and restart
* Clear Database

8. Schedule

|  |  |  |
| --- | --- | --- |
| Task | Members | Estimate effort |
| Requirement Document | Abhijit | 1 man-hour |
| Writing java code, database connection and database creation. | Abhijit, Ajay Kumar | 48 man-hours |
| Test Plan | Neelima | 1 man-hour |
| Test Scenarios, Test Cases,  Defect log and RTM | Fazal Basha, Varshitha | 3 man-hours |
| Total |  | 53 man-hours |

9. **Test Environment:**

a) System Test Environment

* + - Database Server (Oracle 11g) – 8GB ram, 150 GB hard disk, 3.2GHz
    - Java version "1.8.0\_341"
    - Eclipse IDE

10. **Approval Information**

Project Manager: reviews the content of the Test Plan, Test Strategy and Test Estimates signs off on it.

Test Manager: Reviews the test cases, test Conditions and Test data, test report

The Names and Titles of all persons who must approve this plan.

Signature:

Name:

Role:

Date:

11. **Test Metrics**

* Passed Test Cases Percentage = (Number of Passed Tests/Total number of tests executed) X 100
* Failed Test Cases Percentage = (Number of Failed Tests/Total number of tests executed) X 100
* Fixed Defects Percentage = (Defects Fixed/Defects Reported) X 100
* Accepted Defects Percentage = (Defects Accepted as Valid by Dev Team /Total Defects Reported) X 100
* Defects Deferred Percentage = (Defects deferred for future releases /Total Defects Reported) X 100
* Critical Defects Percentage = (Critical Defects / Total Defects Reported) X 100
* Average time for a development team to repair defects = (Total time taken for bug fixes/Number of bugs)
* Number of tests run per time period = Number of tests run/Total time