

System Test Plan

Prepared by

Charlon Dale G. San Agustin

Key Stakeholders	Name
Lead Software Engineer	Nick Price
Lead QA Engineer	Sam Patrick
Project Sponsor	Krishna Rungta
QA Tester	Charlon Dale San Agustin
QA Tester	Tom Rick

Revision History

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1. Introduction

1.1. Overview

The purpose of the Test Plan is to provide detailed information about how the testers will plan to execute tests for the system and its new upcoming features.

1.2. Objectives

This test plan has been developed to fulfill the following objectives:

- To align the strategies of testing according to the System Requirements Specification.
- To provide a plan which covers the nature and extent of testing based on the system and new features.
- To validate the correctness and stability of the features of the system especially in Manager and Customer accounts.
- Define where should the testers focus more especially in banking operations of Account Management, Withdrawal, and Balance.

1.3. References

This document references documents located at:

- Google Docs:  SRS_v3

2. Testing Summary

The QA team will conduct test execution of the web app in browsers only. It will use functional testing types and the external interfaces are also part of the testing team's priority. The testing phase will cover all the modules from the customer and the manager.

2.1. Test Strategy

The test strategy for this system testing effort will be:

- To execute the tests based on the System Requirements Specification.
- To update the test documents based on the SRS and new versions of the Guru99 Banking Project.

2.2. Testing Scope

The intention is to perform all test cases during the sprint. Doing so, the following will be covered:

- Testing of the specific requirements of the system based on SRS.
- Testing of the system from a role perspective, Manager and Customer roles.
- Functional Testing of the features and external interfaces.

2.2.1. Components to be tested

The table below lists the system patterns and features that will be covered during sprint testing. If a pattern or feature is not in this table, it will not be included in testing.

Feature	Objective	Scope	Modules
New Customer Edit Customer Delete Customer New Account Edit Account Delete Account Deposit Withdrawal Fund Transfer Change Password Balance Enquiry Mini Statement Customized Statement Login & Logout	To validate the functionality of the feature according to system requirements	Functional Testing	Manager

Feature	Objective	Scope	Modules
Balance enquiry Fund Transfer Mini Statement Customized Statement Change Password Login & Logout	To validate the functionality of the feature according to system requirements	Functional Testing	Customer

2.2.2. Roles to be tested

The following roles will be tested during this system test:

- Customer
- Manager

2.2.3. Test Exclusions

Testing will not be done for the following:

-

2.2.4. Assumptions, Constraints and Dependencies

Assumptions

Assumption	Impact of assumption being incorrect	Owners
As the system continuously improved according to the changes in requirements, the test documents will also be updated	High	Testers

Constraints

Constraint	Potential impact of constraint	Owners
No known Constraints		

Dependencies

Dependency	Potential impact of dependency	Owners
No known Dependencies		

3. Test Deliverables

Item Name	Level of Control	Where Stored
Test Plan	Informal	
Test cases	Informal	

4. Test Environment

Below is a summary of the hardware and software components and the configurations necessary for testing.

4.1. Tools

The testers will use Google Sheets for the documentations of Test Cases, Jira for Bug Reports, and Google Docs for creating Test plans and observing System Requirements Specifications.

4.2. Browsers

Testing for the sprint will be done using a selection of the browsers supported. The specific browsers and versions used will be noted on the sheets.

Supported browsers:

- Google Chrome v.27 and above

5. Bug Tracking & Reporting

Jira will be used to track the defects for testing. Issues will be entered with the Issue Type of Bug.

Defect should be entered with the following details:

- **Impact**
- **Change reason**
- **Change risk**
- **Description**
- **Details**
 - Assignee
 - Labels
 - Parent
 - Sprint
 - Story Point Estimate
 - Releases
 - Reporter

6. Daily Procedures

The following procedures will be done on a daily basis during Sprint until deemed necessary to change:

- Update of sheets
 - Person responsible: Charlon Dale G. San Agustin
- Sends out end of day report
 - Person responsible: Charlon Dale G. San Agustin

7. Test Status Reporting

Testing status will be sent out at the end of the day with corresponding percentage completion and issues encountered. It will provide the following:

- Latest versions of the Test Case, Integration Planning, and
- # of tests In Progress, Passed, Failed
- Lists of defects found during testing in Bug Tracker
- Status of defects found

8. Schedule

Target Dates

Task	Date	Responsible
Planning	January 1, 2024	Engineering Team
Development	February 1, 2024	Developers
User Acceptance Testing	February 20, 2024	QAs

9. Testing Criteria

9.1. Test Entry Criteria

The following criteria must be met before testing will begin:

- Test product is already developed.
- Test cases are already designed.
- Integration Planning is already designed.
- Test Plan is already completed.
- Documentations, designs, and requirements are already completed and checked correctly to start the execution of the test.
- Test Account should be developed.

9.2. Test Exit Criteria

Risk will be assessed by the team to determine the stability of the product. The following should be true for Sprint completion. The application must be able to pass the test for all the test cases. Each feature will

be passed if it satisfies the corresponding requirement and failed if any or none of the behavioral expectations are met as described. The following will be considered as criteria:

- All high-risk areas have been fully tested.
- Test cases have been executed.
- Test activities in the test plan have been implemented completely in the test procedure.
- No Critical bugs detected in the system where it would not affect the overall functionality.
- All reported bugs coming from the clients have already been fixed.
- No pending blockers in the test cases.
- Minor bugs should also be finished fixing so it won't affect the system in the future.
- The said requirements in the SRS have been implemented accurately.

9.3. Suspension Criteria

The following are the criteria for suspending testing after the start of the system test.

- Existing features have been affected by the implementation of the new features in the system.
- A critical bug that prevents most of the modules in the system from operating its function.
- Around 30 percent of the Test Status is blocked.

There could be partial suspension of a module or feature, if there is a critical issue specific to the module or feature.

9.4. Resumption Criteria

The following are the resumption criteria in the event that testing has been suspended during the system test.

The steps necessary to resume testing:

Resumption of testing will begin when the following is delivered to the system test team:

- The problem encountered resulting in suspension has been corrected and unit tested.
- Risk assessment of the fix has been conducted and stakeholders agree to move forward.
- A new build containing the fix is delivered to the test team.
- Detailed documentation of the list of all bugs fixed in the new build is available.
- The problem in the critical issues has found a solution and implemented it in the system.
- The stakeholders agreed on the Risk assessment of the fix and continued the phase.
- Developers have provided proper instructions to use to the QA team after a critical bug affected the whole system.

10. Resources

10.1. Tools

Activity	Facilities and Tools
Test Document Storage	Google Drive
Test Cases	Google Sheets
Test Plan	Google Docs
Integration Planning	Google Sheets
Bug Tracking	Jira, Google Sheets
System Requirement Specification	Google Docs

10.2. Test Activity and Responsibilities

This table identifies the testing activities and the responsibilities of the personnel associated with this testing effort.

Activity	Responsible Person
Create System Test Plan	Charlon Dale G. San Agustin
Create Test Cases	Tom Rick
Perform Test Execution	Charlon Dale G. San Agustin
Testing Status Reports	Charlon Dale G. San Agustin
Create Bug Tracker	Tom Rick
Create Integration Planning	Tom Rick