Internet Banking

Test Plan of IB

Version 1.0

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Document Revision History					
Date	**Version**	**Description**	**Author**	**Reviewer**	**Approver**
09-Sep-2022	0.1	Internet Banking Test Plan	Aditya Kshirsagar	Dinesh Gayke	
10-Sep-2022	0.2	Incorporated review comment's given by Peer	Gaurav Chordiya	Rajratna Ingle	
10-Sep-2022	0.3	Incorporated review comment's given by Lead	Ruchita Madarpalle	Avinash mane	
11-Sep-2022	1.0	Base-lined Version	Girish Godbole	Girish Godbole	

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1. INTRODUCTION

Internet Banking is an application developed for GG Bank to facilitate their Banking Services hassle free for their customers.

This Application will be developed using agile methodology and will be delivered to the client in multiple iterations as scheduled.

This document will over site the testing activities to be performed to validate the functionality of overall application.

2. OBJECTIVE

The objective of the project is to provide Secure and Easy Net Banking Facilities to the end users of GG Bank.

This will reduce the huge efforts of manual intervention which were required to manage the bookings offsite.

This document will outline the Testing Methodologies, Strategies, Test documentations, Test Execution details, Risks, Mitigation Plan and Schedules dependencies, entry and exit criteria.

3. SCOPE

3.1 FUNCTIONALY COVERED

1. User Registration
2. Login/logout functionality
3. Beneficiary Management
4. Easy Fund Transfer
5. Statement Download
6. Account management

3.2 FUNTIONALITY NOT IN SCOPE

1. Non-Functional Testing is not in scope.

4. REFERENCE DOCUMENTS

Use Cases details || Shared Location: *tbc*

5. TESTING PROCESS OVERVIEW

5.1 TESTING BEST PRACTICES

- Requirement specifications will be sent by client.
- Understanding of requirements will be done by QA along with Respective lead and developer and queries are raised if any.
- Raised queries will be sent by lead to client, Response to queries will be sent by client.

Preparing Test Cases:

QA will be preparing test cases based on the requirement specifications. This will cover all scenarios for requirements.

Preparing Test Matrix:

QA will be preparing test matrix which maps test cases to respective requirement. This will ensure the coverage for requirements.

Reviewing test cases and matrix:

- Peer review will be conducted for test cases and test matrix by senior QA member
- In certain cases, for e.g., complex requirements, lead's help will be taken for conducting review
- Any comments or suggestions on test cases and test coverage will be provided by reviewer respective Author of Test Case and Test Matrix
- Suggestions or improvements will be re-worked by author and will be send for approval, Re-worked improvements will be reviewed and approved by reviewer

Creating Test Data:

Test data will be created by respective QA on client's developments/test site based on scenarios and Test cases.

Executing Test Cases:

- Test cases will be executed by respective QA on client's development/test site based on designed scenarios, test cases and Test data.
- Test result (Actual Result, Pass/Fail) will be updated in test case document

Defect Logging and Reporting:

QA will be logging the defect/bugs in Bugzilla, bug tracking tool found during execution of test cases and will assigned the Bug id generated by Bugzilla to respective test cases document. After this, QA will inform respective developer about the defect/bug

Retesting and Regression Testing:

Retesting for fixed bugs will be done by respective QA once it is resolved by respective

Developer and bug/defect status will be updated accordingly. In certain cases, regression testing will be done if required.

Deployment/Delivery:

- Once all bugs/defect reported after complete testing is fixed and no other bugs are found, report will be deployed to client's test site by developer.
- Once round of testing will be done by QA on client's test site if required
- Report will be delivered along with sample output by email to respective lead and Report group.
- QA will be submitting the filled hard copy of delivery slip to respective developer.
- Once lead gets the hard copy of delivery slip filled by QA and developer, he will send the report delivery email to client.

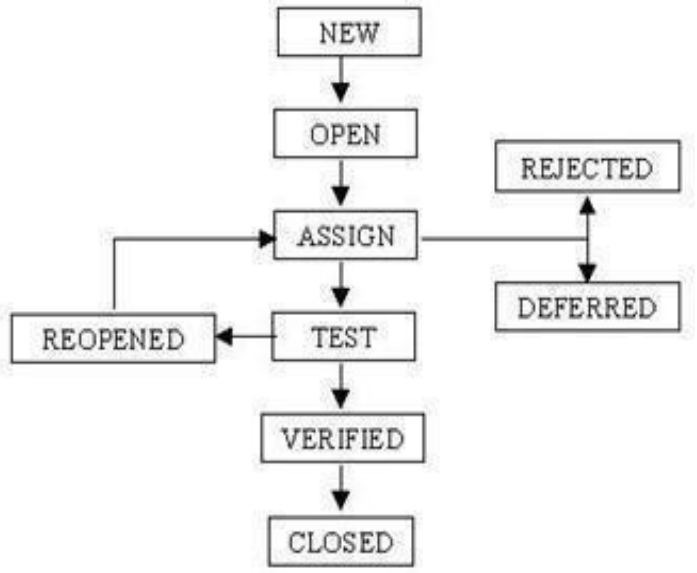
5.2 DATA MANAGEMENT

QA will create test data on development site for scenarios based on client's requirements specifications.

5.3 DEFECT LIFE CYCLE

All the issues found while testing will be logged into Bugzilla bug tracker.

Bug life cycle for this project is as follows:



6. TEST STRATERGY

6.1 TESTING TYPES

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.

GUI Testing:

GUI testing will includes testing the UI part of report. It covers users Report format, look and feel, error messages, spelling mistakes, GUI guideline violations.

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 location(s)

Functional Testing:

Functional testing is carried out in order to find out unexpected behavior of the report. The characteristic of functional testing are to provide correctness, reliability, testability and accuracy of the report output/data.

System Testing:

System testing of software is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.

Performance & Stress Testing:

Performance testing will be done by Client

User acceptance testing:

The purpose behind user acceptance testing is to conform that system is developed according to the specified user requirements and is ready for operational use. User acceptance testing (UAT) will be done at the Client.

6.2 TOOLS

Tool Name	Vender	Version
Microsoft Excel 2019	Microsoft	**Version 2112**
Microsoft Word 2019	Microsoft	**Version 2112**

Jira	Atlassian	**Version 8.21.0**

Environment Name	**URL**
Machine: tbc	Tbc
Machine: tbc	Tbc
Machine: tbc	Tbc

7. TEST ENVIRONMENT

8. TEST SCHEDULE

Planning Phase:

High-level test planning activities, which include preliminary development of Master QA Plan (this document, QA schedule. At this Milestone, the high-level planning should be completed. Some of the deliverables are Project Plan, Program function specifications.

Design Phase:

Development and Test engineers participate actively in feature design by inspecting and reviewing the requirements and design documents. As the design documents are completed, the test engineers are encouraged to start working on the Test Plan document and test design planning.

Feature Complete: All bugs verified, and QA documentation is finalized.

Timelines:

Sr. No.	Activity	Start Date	End Date
1	Use Case Preparation	07/02/2023	07/02/2023
2	Test scenario	09/02/2023	11/02/2023
3	Test case preparation	11/02/2023	13/02/2023

4	RTM (Requirement Traceability Matrix)	14/02/2023	15/02/2023
5	Test Execution Cycle 1	15/02/2023	18/02/2023
6	Test Execution Cycle 2	18/02/2023	21/02/2023
7	Test Execution Cycle 3	21/02/2023	24/02/2023
8	Defect Retesting	24/02/2023	27/02/2023
9	Regression Test	27/02/2023	01/03/2023
10	Test Closure Activities	01/03/2023	02/03/2023

System Readiness and System Test:

Sanity Test to be carried out at each interval before proceeding to next phase. Test Execution will be carried out as per defined sprint cycle.

Regression Test:

Complete regression test execution of complete system and update Test Summary Reports for regression.

9. CONTROL PROCEDURE

Reviews:

Reviews will be done on following documents

- Test cases, Test Scenario, Test Plan
- RTM (Requirement Traceability Matrix)

Bug Review Meetings:

Bug review meeting will be held for every test cycle conducted during the phases: -

- GUI Testing
- Report Output/Data Testing

In case of critical / showstoppers bugs.

Change Request:

Change request for report will be handled using following process:

- Understanding the change request and its impact on exiting report functionality
- If the change is major, test cases will be updated
- If the change is minor, test cases will may not be updated
- Retesting and regression testing will be done as per changed request

Defect Reporting:

Bugs found during static and dynamic testing will be logged in Bugzilla bug tracking tool.

10. ROLES AND RESPONSIBILITIES

Role	Responsibilities
PM	1. Acts as a primary contact for development and QA team. 2. Responsible for Project schedule and the overall success of project
Development Team	1. Understand requirements 2. Writing and executing Test cases 3. Preparing RTM 4. Reviewing Test cases, RTM 5. Defect reporting and tracking 6. Retesting and regression testing
QA Lead	1. Understand requirements 2. Writing and executing Test cases 3. Preparing RTM 4. Reviewing Test cases, RTM 5. Defect reporting and tracking 6. Retesting and regression testing 7. Bug review meeting

11. DELIVERABLES

Deliverable	Contents
Test plan	Test Methodologies, Activities, Schedules etc.
Test Scenarios	High level test functionalities
Test Cases	All Type of Test Cases
Test Data Workbook	Required Test Data Sets for All Cycles
Test Execution Report	Test Execution Results per Execution cycle
Defect Report	Defect Report Per Test Cycle
Test Closure Report	Test Closure Report as per Test levels
Sign-off	Signoff from respective stakeholders

12. ENTRY CRITERIA

a. The whole source code must be unit tested H/W and S/W should be in place
b. QA resources have completely understood the requirements
c. QA resources have sound knowledge of functionality in Reports
d. Reviewed test scenarios, test cases and RTM

13. SUSPENSION CRITERIA

a. The build contains many serious defects which seriously or limit testing progress.
b. Significant change in requirements suggested by client
c. Software/Hardware problems
d. Assigned resources are not available when needed by test team.

14. RESUMPTION CRITERIA

a. Resumption will only occur when the problem(s) that caused the caused the suspension to have been resolved

15. EXIT CRITERIA

a. No defects over a period or less testing efforts
b. All the high priority/severity test cases have been executed
c. Deliverables are ready
d. High severity/ priority bugs are fixed

16. RISK

a. Delay in delivery of test items might require increased night shift scheduling to meet the delivery date
b. Understanding requirements
c. Domain and project knowledge
d. CoVid outbreak – unavailability of resources
e. Critical Open defects for long duration

17. RISK MITIGATION

a. Functional and Technical Training for all the resources
b. WHF facilities
c. Defined Process and Standards to avoid surprises

18. ACRONYMS

a. GUI: Graphical User Interface

b. RTM: Requirement Traceability Matrix

c. TBC: To Be Confirmed