Taka Test Plan for 2023/24-Q1

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Version History

Ver. No.	Date	Amendment	Prepared By	Approved By
1.0.0	2023/09/01	Initial version, Scope of work is updated, Release plan is update	Enisha Ashrefa	
1.0.1	2023/09/08	Scope of work and QA Scope of work file is update	Enisha Ashrefa	
1.0.2	2023/09/15	Scope of work and QA Scope of work file is update	Enisha Ashrefa	
1.0.3	2023/09/22	Scope of work and QA Scope of work file is update	Enisha Ashrefa	

Abbreviation List

Term	Abbreviation
GUI	Graphical User Interface
UI	User Interface
UX	User Experience
API	Application Programming Interface
TBD	To Be Defined
QA	Quality Assurance
RC	Requirement Change
MFS	Mobile Financial Service
OS	Operating System

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1. Introduction

The project is about the mobile financial service called **TAKA**. This Test Plan outlines the comprehensive testing strategy for **TAKA**, a groundbreaking platform designed to provide users with seamless access to a wide range of financial transactions and services through their mobile devices. The application aims to revolutionise the way users manage their finances, make payments, and conduct transactions on the go. The testing phase is a critical component in ensuring that the application functions flawlessly, adheres to standards, and provides a user-friendly experience.

This Test plans outline the process of testing the functionality of **TAKA** mobile financial service. The main purpose of this document is to ensure the overall Quality assurance plan, Test Procedure, Test schedule, Test acceptance criteria, Test Reporting etc.

2. Reference

The following documents are used as sources of information for this test plan:

- ❖ Project Plan of **TAKA** provided by PM.

Objectives:

Our testing objectives are to evaluate this product for potential feature additions, deploy new features, address issues, and do more maintenance.We define the following test objectives:

- ❖ Make that the application's functionality meets the requirements.
- ❖ Avoid flaws and make sure problems are resolved.
- ❖ Give your customers a high-quality product to win their trust.
- ❖ Fostering trust and disseminating knowledge about the standard of quality.

3. High Level Test Objective

Our high level objectives are to evaluate this product for potential feature additions, deploy new features, address issues, and do more maintenance. The ensuing test goals are described.

- ❖ Make that the application's functionality meets the requirements.
- ❖ Verify the outcome complies with the specifications.
- ❖ By giving the clients high-quality goods, we may win their trust.
- ❖ Check to see if it complies with the requirement specification.
- ❖ Fostering trust and disseminating knowledge about the standard of quality.

4. Test Strategy

To ensure the quality of the applications of **TAKA** project, testing will be conducted based on following approaches:

UI/UX Testing Strategies: To ensure that the client's expectations can be satisfied and the programme functions as intended, UI/UX testing is carried out initially after the application has been examined by the QA team.

Pixel Perfection: To compare the Figma design, we will use the Developer Tools in the browser to assure pixel precision.

Functional Testing Strategies: Following the creation of test cases for each functional point, function testing is carried out.

Integration Testing Strategy: In the TAKA scope created by Our Company, we will check interfaces and interactions between integrated components at this test level.

The following approach can lead to the Figma integration test forms.

https://www.figma.com/file/BF%EF%BC%89?node-id=530%3A0

Retest Strategies: Afterwards, functional testing may reveal certain problems. The application will be retested after this problem has been fixed to ensure that it is fixed.

Regression Testing: Regression testing will be done on earlier functionalities following any new addition.

4.1 Test Types

Following types of testing will be conducted to ensure the quality:

Functional Testing: Functional tests will be carried out, encompassing both positive and negative scenarios. At this stage, the objective is to confirm that the target application aligns with its Scope Statement.

GUI Test: This testing will cover the application's graphical user interface with the goal of ensuring flawless execution in compliance with the UI standards. The goal of GUI testing is to evaluate how well the user and the application interact. This entails assessing how the application handles user inputs as well as how text, images, buttons, menus, conversation boxes, icons, toolbars, and other elements are shown on screen.

Pixel Perfection: This testing will cover following:

- ❖ Responsiveness
- ❖ Alignment (margin, padding, breathing space between images and other material, placement, and position).

❖ Image Ratio: Ensure that it matches the screen, icon, and image resolution you want.
❖ Size, colour, style, line spacing, and char spacing of the font.

Retest: To determine whether the reported bugs have been addressed, retesting will be done. To guarantee the fix, the pertinent test cases will be run again.

5. Features to be Tested

Phase	Features/Modules
01	1. Registration, User Authentication, Forget PIN 2. Cash In Bank to Taka, Card to Taka, API Integration, Balance Update, Limits and Restrictions, Transaction history, Balance update Notification. 3. Cash Out from Agent, ATM, API Integration, Balance Update, Limits and Restrictions, Transaction history, Balance update, Notification. 4. Pay Bill Search Organization, API Integration, Balance Update, Payment amount, Payment methods, confirmation and authorization, Late payment Reminder. 5. Mobile Recharge Search name or number, Push Notification. 6. Send Money, Amount and Currency, payment methods, Send Transection, confirmation and Notification, Message or notes.
02	Partial UI/UX for Dashboard, TAKA Components and modules.
03	Complete UI/UX on TAKA Components.
Note: Depending on the state of development and the intended release, the test plan and execution may change.	

6. Features not to be Tested

Phase	Features
01	**Full Integration Testing:** The MFS system will not undergo full integration testing by CompanyName.
	Acceptance Testing: The MFS system won't be subjected to acceptance testing by CompanyName.
	Full Regression Testing: We might not cover the entire regression test because, after issue resolution, it takes a lot of time and resources.
Management & Maintenance	TBD (Need client decision)

7. Test Estimation

Testing effort may depend on several factors including-

- ❖ Quality of the Test basis.
- ❖ Size of the product.
- ❖ Complexity of the problem domain.
- ❖ Requirements for documentation.
- ❖ Time pressure.
- ❖ Number of defects and the amount of rework required.
- ❖ Regression testing.

8. Release Procedure

Below procedures will be followed for Release:

- ❖ Step-1: Requirement Analysis.
- ❖ Step-2: Start Development and make internal release for QA.
- ❖ Step-3: QA continue testing and report bug
- ❖ Step-4: Developers start fixing bugs.
- ❖ Step-5: Make a Final Release for the current Phase.
- ❖ Step-6: QA Confirm last release bugs fixed in Final Release.
- ❖ Step-7: QA make complete respective Phase Testing Scope and record bugs.
- ❖ Step-8: If they do not have any blocking issue and bug Severity is low, Application go release otherwise release will not be done.
- ❖ Step-9: Remaining bugs will be fixed in the next Phase.

9. Test Suspension Criteria

Testing will be suspended, and QA team will reject the receivables upon the following criteria. If any following case happens then QA have to raise the issue to respective stakeholders.

- ❖ During testing blocking issues are identified.
- ❖ Respective bug is not fixed in dedicated release
- ❖ Release without release note

10. Test Acceptance Criteria

- ❖ Application UI should match Figma UI Specification:
- ❖ https://www.figma.com/file/%BF%EF%BC%89?node-id=530%3A0.
- ❖ Application does not have any blocking issues.
- ❖ Applications have 85% Test case coverage.
- ❖ Applications have covered supported required browsers (Windows Chrome, Mac Chrome/Safari, iPad (Emulator) Safari).

11. QA Task List and Testing Process

Below Tasks will be performed by the QA Team:

- ❖ Requirement analysis
- ❖ Identify Test areas
- ❖ Test Case writing on identified test areas
- ❖ Prepare Test environment
- ❖ Execute Test Cases
- ❖ Bug reporting/retest

- ❖ Deliver Test report
- ❖ Perform Test closure activity
- ❖ Daily morning meeting
- ❖ Spec grooming meeting

12. Test Environment

To prepare the test bed for **TAKA** project followings are the requirement:

12.1 Hardware Requirement:

- ❖ PC (Widows, MAC for Emulator)
- ❖ Android, Iphone

12.2 Software Requirement:

12.3 Operating System: Windows 10, MacOS

12.4 Network Requirement:

- ❖ Internet connectivity to Laptop/Phone

12.5 Tools to be used:

- ❖ **Test Case management**: Microsoft Excel/JIRA
- ❖ **Document management**: Confluence/Google Drive
- ❖ **Project management**: Redmine
- ❖ **Design Tool**: Figma
- ❖ **UI/Pixel Perfections Test Tool**: Browsers' Development Tools.

Device oriented testing will be conducted as per following plan:

Platform	Browser/OS	Device	Screen Res	Comment
Smart Phone	Android	Mobile	720×1280	
Windows	Chrome	Emulator	720×1280	
Iphone	iOS	Mobile	720×1280	

13. Schedule

Schedule will be updated as Phase feature release:

Phase	Feature Name	Req. Analysis	No of Test Items	Test Case Design	Internal QA Release	Final Release
1	Registration, User Authentication, Forget PIN		4	50	2023-08-12	
2	Cash In Bank to Taka, Card to Taka, API Integration, Balance Update, Limits and Restrictions, Transaction history, Balance update Notification.		7	60	2023-09-18	
3	Cash Out from Agent, ATM, API Integration, Balance Update, Limits and Restrictions, Transaction history, Balance update, Notification.		8	110	2021-09-21	
4	Pay Bill Search Organization, API Integration, Balance Update, Payment amount, Payment methods, confirmation and authorization, Late payment Reminder.		8	130	2023-10-01	
5	Mobile Recharge Search name or number, Push Notification.		3	60	2023-10-08	
6	Send Money, Amount and Currency, payment methods, Send Transection, confirmation and Notification, Message or notes.		6	115	2023-10-10	

14. QA Summary Report

Phase	URL
1st Release (V-1.0.0)	http://redmine.com/redmine/issues/000000
2nd Release (V-1.0.1)	http://redmine.com/redmine/issues/000000
3rd Release (V-1.0.2)	http://redmine.com/redmine/issues/000000
4th Release (V-1.0.3)	http://redmine.com/redmine/issues/000000

15. Roles and Responsibilities

Resource Name	Roles and Responsibilities
Muhaiminul Islam	General Manager
Enisha Ashrefa	Project Manager
Aurko Rahman	Business Executive
Nahian Kamal Pritom	Software Architect
Shawkat Ali Sujon	Software Engineer QA
Sheikh Md. Rezone Ullah	

16. Risk and Contingencies

Schedule:

- ❖ If SRS are not Cleared as per schedule, then we may not be able to meet the Testing deadline.
- ❖ If Releases for Testing are not provided as per schedule, then we may not be able to meet the deadline.
- ❖ Any changes to the requirements/scope could affect the test schedule**Testing:**

- ❖ Applications may have side effects due to implementation of new features and function enhancement and this may affect the functionality of existing features due to lack of proper testing time.
  - ➢ Mitigation can be the proper testing scope, testing time.

Application Risk:

- ❖ Applications may behave abnormally, and major functions may not work in non-supported devices/interfaces. Application may also not work expectedly in latest browsers for which application is not modified and tested.

17. Test Exit Criteria

Testing process of the **TAKA** application will be ended if following criteria are met:

- ❖ All specified functions are functioning properly.
- ❖ Major bugs are identified, resolved and retested.
- ❖ All test cases are executed and passed.
- ❖ Testing is ongoing but the PM requested to release the system.

18. Bug Status Explanation

We maintain following status of the **Bug** in our **Test Execution** report:

New: When any defect or bug is found and validated, the status of bug or defect is logged in as To-do.

In-Progress: When assigned developer working on the respective ticket.

Done: This status means that the issue is fixed, Now tested can retest.

Verified: The tester re-tests the bug after it got fixed by the developer. If there is no bug   detected in the software, then the bug is fixed, and the status assigned is "verified."

Reopened: If the bug persists even after the developer has fixed the bug, the tester changes the status to "reopened". Once again, the bug goes through the life cycle.

Closed: If the bug no longer exists then the tester assigns the status "Closed."

Duplicate: If the defect is repeated twice or the defect corresponds to the same concept of the bug, the status is changed to "duplicate."

Rejected: If the developer feels the defect is not a genuine defect then it changes the defect to "rejected."

Deferred: If the present bug is not of a prime priority and if it is expected to get fixed in the next release, then status "Deferred" is assigned to such bugs

Not a bug: If it does not affect the functionality of the application then the status assigned to a bug is "Not a bug".

19. Test Deliverables

Followings are the deliverables from QA for **TAKA** project:

Test Deliverables before Testing

❖ Test Plan

Test Deliverables after Testing

❖ Test execution report

Note: Known issues need to be well mentioned in each Phase release note.

20. Test Plan Approvals

Name	Role	Signature	Date
Enisha Ashrefa	Project Manager		2023-10-12
Iftekhar Ahmed	Test Manager		2023-10-12
Abdul Qadir	QA Lead		2023-10-12