**MONIEPOINT**

**MOBILE BANKING APPLICATION**

Test Plan Version 1.0

July 20, 2023.

**Change Log**

| **Version** | **Date** | **Status** | **Author** | **Description** |
| --- | --- | --- | --- | --- |
| 0.1 | July 17, 2023 | Initial Draft | TBD Technical writing Team | Created the initial draft of the document. |
| 0.2 | July 19, 2023 | Draft | Esther Okafor, Test Lead. | Incorporated feedback and updates from the Test Lead. |
| 0.3 | July 20, 2023 | Final | Abiola Rasaq, CTO. | Finalized the document with approval from the (CTO). |

*Please note that this document is not to be shared with any third party without the prior consent of Moniepoint.*

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**Introduction**

**Purpose**

The purpose of this test plan is to ensure that the Moniepoint mobile banking solution operates as expected, is user-friendly, and is functional on both iOS and Android platforms. Our testing efforts will focus on manual testing to achieve the following key objectives:

* **Functionality**:

Confirm that all features, including user registration, business account creation, POS terminal request, KYC verification process, assignment of business relationship managers, and the roles of state coordinators and the supreme aggregator, function as per the specified requirements.

* **Usability**:

Evaluate the user experience for both business owners and managers on the mobile application. This includes testing the application's navigation, design, and ease-of-use on both iOS and Android platforms.

* **Compatibility**:

Ensure the application runs smoothly on various versions of iOS and Android, and on different devices that use these operating systems.

* **Performance**:

Check the application's response time, speed, and overall performance under various network conditions (such as 3G, 4G, 5G, and Wi-Fi).

* **Security and Privacy**:

Validate the security measures implemented to protect user data and privacy. This includes checking data encryption, secure transactions, and compliance with relevant privacy regulations.

**Scope**

This test plan will cover the Alpha testing of the Moniepoint mobile banking solutions core features:

* **User Registration and Account Management**: This will involve testing the user signup process, business owner account creation, and user management features.
* **Business Creation and Management**: Testing will cover the creation of businesses linked to user accounts, POS terminal requests, and financial operations such as withdrawals and transfers.
* **KYC Verification**: The upload and processing of necessary KYC documents will be tested to ensure compliance and robustness.
* **Business Relationship Manager Functions**: This involves testing the functionalities related to assigning and managing business relationship managers, including the process of approving POS terminal requests and maintaining connections with business owners and users.
* **Security and Data Privacy**: Testing will ensure the security of user data, secure transactions, and overall data privacy adhering to relevant standards and regulations.

**Objectives**

The primary objective of this test plan is to validate the functionality, reliability, performance, and security of the Moniepoint banking solution across its web and mobile platforms. This will encompass verification of the following key features:

* User registration and business owner account creation.
* Business setup and linking to the owner's account.
* Point-of-Sale (POS) terminal request functionality.
* Upload and processing of KYC verification documents.
* Verify the application's compatibility, responsiveness, and performance on different devices and screen sizes.
* Assess the application's security measures and ensure user data privacy.
* Identify and report defects, ensuring they are addressed before the application is released to end users.
* Provide comprehensive and reliable test coverage to instill confidence in the application's stability and usability.

**Test Strategy**

**Testing Approach**

Conducted to evaluate the Mobile application's functionality, usability, compactibility and overall performance in a controlled environment.

**Test Levels**

1. **Unit Testing:**

Unit testing involves testing individual components or modules of the software in isolation to ensure they function correctly.

**Responsibility**: Moniepoint Development Team.

1. **Integration Testing**:

Integration testing tests the interaction between different units or modules to ensure they work together as expected.

**Responsibility**: Moniepoint Development Team and Testing Team.

1. **System Testing**:

System testing evaluates the entire software system to ensure it meets the specified requirements.

**Responsibility**: Moniepoint Testing Team.

1. **Acceptance Testing**:

Acceptance testing is conducted by end-users or representatives of the stakeholders to evaluate whether the application meets their business needs.

Responsibility: The Bug Detective Testers

1. **Usability Testing**:

Usability testing assesses the software's ease-of-use, user interface, and overall user experience.

Responsibility: The Bug Detective Testers

1. **Beta Test Feedback**:

This level is dedicated to collecting feedback from Beta testers regarding their experience with the application.

**Responsibility**: The Bug Detective

**Test Environment**

The test environment will consist of the following:

* **Devices**: The application will be tested on a variety of iOS and Android devices to ensure compatibility. This will include different models with various screen sizes and hardware specifications.
* **Operating Systems**: The application will be tested on different versions of iOS and Android operating systems to ensure the application's compatibility with both older and newer OS versions.
* **Networks**: The application will be tested under various network conditions, including Wi-Fi, 3G, 4G.
* **Test Data**: We will use test data that closely mimics the real data that the system would handle in a production environment.
* **Tools**: Depending on the type of testing agreed on, various tools may be used. This could include automation tools, performance testing tools, security testing tools, defect tracking systems, etc.
* **Test Server**: A separate server will be used for testing purposes, ensuring that it doesn't interfere with the production server and the live app.

## 

## **Test Deliverables**

| **Deliverables** | **Description** | **Responsible Parties** |
| --- | --- | --- |
| **Test Plan** | The test plan will document and outline the overall testing approach, objectives, scope, and schedule for the application. It will serve as a reference guide for the testing team and stakeholders throughout the testing process. | **TheBugDetective Test Team** |
| **Test Cases** | Test cases are detailed instructions that describe the steps to be executed, inputs to be provided, and expected outcomes for each test scenario. These test cases will cover mostly functional aspects of the application. | **TheBugDetective Test Team** |
| **Test Data** | Test data will include a set of predefined data that will be used to execute the test cases. It encompasses both valid and invalid scenarios to thoroughly validate the functionality, edge cases, and boundary conditions of the mobile business banking application. | **TheBugDetective Test Team** |
| **Defect Reports** | Defect reports document any issues or defects discovered during the testing process. Each defect report will include information such as the defect description, steps to reproduce, severity, priority, and any relevant attachments or screenshots.  Defects will be split into the following categories; 1. Functional defects  2. Visual defects  3. Content defects  4. Performance defects. | **TheBugDetective Test Team** |
| **Test Logs** | Test logs provide a record of the testing activities conducted during the testing process. They capture important information, such as the test execution date and time, test case status (pass/fail), environment details, and any notes or observations made during the test execution | **TheBugDetective Test Team** |
| **Test Summary Reports** | Test Summary Reports provides a detailed account of the overall testing results and defects on both the iOS and android versions | **TheBugDetective Test Team** |
| **BetaTest Feedback** | Feedback from Beta testers regarding their experience. | **TBD Beta Testers** |

**Test Schedule**

| **Phase** | **Start Date** | **End Date** | **Duration** |
| --- | --- | --- | --- |
| Test Planning | July 18, 2023 | July 19, 2023 | 2 days |
| Test case preparation | July 19, 2023 | July 21, 2023 | 3 days |
| Test Execution | July 19, 2023 | July 21, 2023 | 3 days |
| Defect Reporting | July 19, 2023 | July 21, 2023 | 3 days |
| Defect Resolution | Dependent on the Dev. Team | To be Agreed | To be Agreed |
| Test Logging | July 22nd, 2023 | July 22nd, 2023 | 1 day |
| Regression Testing | Dependent on the Dev. Team | To be Agreed | 2 days |
| Beta Test Feedback | After all tests and bug fixes are done | To be Agreed | 3 days |
| Test Summary Report | When all testing Activities is completed | To be Agreed | 3 days |
| Test Closure | To be Agreed | To be Agreed | 1 day |

**Dependencies**

* Availability of test environment
* Completion of development and build milestones.
* Cooperation and timely feedback from stakeholders.
* Timely availability of test data.

**Test Completion Criteria**

* Over 90% test case coverage achieved.
* No known critical defects affecting the core functionalities.
* Positive feedback and satisfactory user experience from Alpha testers.
* 90% requirement coverage

**Roles and Responsibilities**

| **Roles** | **Responsibilities** |
| --- | --- |
| The Bug Detective Testers | Testing Activities, Bug Reporting, Test Documentation, etc |
| Moniepoint Development Team, Project managers, Growth managers etc. | Requirement Documentation, Developing, Bug fixing, Unit, Integration test, facilitating etc |
| Stakeholders | Team Managers |

**Approvals**

| **Approval Level** | **Approver** | **Name** | **Date Approved** |
| --- | --- | --- | --- |
| Technical Approval | Test Lead | Esther Okafor | July 19th, 2023 |
| Business Approval | CTO | Abiola Rasaq | July 20th, 2023 |
| Client Approval | Client Representative |  |  |

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