**Ivorypay App Pre deployment Testing Plan**

1. **Introduction**

* **Purpose of the Test Plan:** The Purpose of this testing exercise is to ascertain that the application under test is completely ready for the public(customer’s) to use
* **Scope of Testing (Inclusions and Exclusions):**  The testing will focus on **User Registration, Login, Fund Transfer, and Transaction History**. Every other module/submodule will be considered out of scope.
* **Objectives of Final Testing:** The Objective of this final test is to ensure that the application functionalities meet the business expectation and to ensure that the application is secure, accessible, intuitive and function optimally.
* **Roles and Responsibilities:** Functional Test will be carried out by a Functional Tester for all the application functionalities/modules in scope, a performance tester will also need test the performance of the application by subjecting it to load and stress testing, Also a security tester may need to also carry out some high level security test on the application.

1. **Test Strategy**

* **Testing Approaches:** Functional and Non Functional
* **Testing Levels:** System Test, Regression Test and User Acceptance Test
* **Testing Types:** Functional, Performance, Security, Usability and accessibility
* **Testing Environments:** Staging Environment

1. **Test Deliverables**

* **List of Expected Deliverables:** Test Cases, Test Data and Test Reports
* Schedule and Milestones for Deliverables: 05.08.2023

1. **Test Environment**

* **Description of Test Environment Configuration:** The app is expected to work seamlessly with Browsers on Laptops, desktops, Tabs and mobile phones
* **Hardware and Software Requirements:** As stated by business
* **Test Data Sources and Generation:** Staging environment Test data

1. **Test Cases and Scenarios**

* Detailed Test Cases with Steps, Expected Results, Status and Actual Results will be created

1. **Functional Testing:** functional testing will involve touching the following parts of the application

* Verification of Functional Requirements
* User Interface Testing (Navigation, Layout, Usability)
* Input Validations and Error Handling Testing

1. **Performance Testing:** Provided there is a resource to execute performance test the following will be performed

* Load Testing: Simulating Expected User Load
* Stress Testing: Pushing the System Beyond Its Limits
* Performance Metrics to be Collected (Response Time, Throughput, etc.)
* Performance Optimization Recommendations

1. **Security Testing**

* Vulnerability Assessment (SQL Injection, XSS, CSRF, etc.provided there is a specialist to execute this)
* Authentication and Authorization Testing: This will be covered with the functional test
* Data Protection and Privacy Testing

1. **Compatibility Testing**

* Testing Across Different Browsers and Devices
* Operating System and Browser Versions to be Tested(As prescribed by business0

1. **Accessibility Testing:** Provided the time frame gives the allowance

* Screen Reader Testing
* Keyboard Navigation Testing

1. **User Acceptance Testing (UAT)**

* UAT Test Scenarios and Test Cases will be created once the system test as been completed
* Involvement of Stakeholders and End Users
* UAT Feedback Collection and Resolution Process

1. **Test Reporting**

* Test Execution Status and Progress Reporting
* Defect Reporting and Tracking
* Test Metrics (Defect Density, Test Coverage, etc.)

1. **Risks and Mitigation**

* Identification of Potential Risks
* Mitigation Strategies for High-Risk Items

1. **Sign-off and Approval**

* Criteria for Test Completion and Sign-off
* Approval Process by Stakeholders