### **Test Plan for Qafox Application**

#### **1. Introduction**

**1.1 Purpose:** This test plan outlines the strategy and approach for testing the Qafox application to ensure its functionality, performance, and usability meet the defined requirements.

**1.2 Scope:** The testing scope includes the Qafox application's core functionalities, such as the Home page and Change Password.

**1.3 Objectives:**

* Verify that the application meets all functional requirements.
* Ensure the application is free of critical defects.
* Validate the performance and security of the application.
* Confirm compatibility across different devices and browsers.

#### **2. Test Strategy**

**2.1 Types of Testing:**

* **Functional Testing:** Ensure all features work as intended.
* **Regression Testing:** Verify that new changes don’t negatively affect existing functionality.
* **Performance Testing:** Assess the application's responsiveness and stability under load.
* **Usability Testing:** Evaluate the user interface and experience.
* **Compatibility Testing:** Confirm the application works across various devices and browsers.

**2.2 Testing Tools:**

* **Functional Testing:** Selenium, TestNG
* **Performance Testing:** JMeter, LoadRunner
* **Security Testing:** OWASP ZAP, Burp Suite
* **Compatibility Testing:** BrowserStack, LambdaTest

#### **3. Test Scope**

**3.1 Features to be Tested:**

* **Home page**
* **Change Password**

**3.2 Features Not to be Tested:**

* Integration with third-party services (e.g., external APIs) will not be tested in this plan.

#### **4. Test Environment**

**4.1 Hardware:**

* User Devices: Desktop (Windows, macOS), Mobile (iOS, Android)

**4.2 Software:**

* **Operating Systems:** Windows 11, macOS, iOS 15+, Android 12+
* **Browsers:** Chrome, Firefox, Safari, Edge
* **Database:** N/A

#### **5. Test Schedule**

**5.1 Milestones:**

* **Test Planning:** [29-08-2024] - [29-08-2024]
* **Test Case Design:** [29-08-2024] - [29-08-2024]
* **Test Execution:** [30-08-2024] - [30-08-2024]
* **Defect Reporting:** Ongoing during test execution
* **Test Closure:** [30-08-2024] - [30-08-2024]

#### **6. Test Deliverables**

**6.1 Test Artifacts:**

* Test Plan Document
* Test Cases and Scripts
* Test Data
* Test Execution Reports
* Defect Reports
* Final Test Summary Report

#### **7. Roles and Responsibilities**

**7.1 Test Manager:**

* Oversee test planning and execution
* Coordinate with stakeholders
* Review and approve test deliverables

**7.2 Test Engineers:**

* Design and execute test cases
* Report and track defects
* Collaborate with the development team

**7.3 Product Owner:**

* Provide requirements and clarify doubts
* Validate test results and provide feedback

#### **8. Risk and Mitigation**

**8.1 Risks:**

* **Incomplete Requirements:** Regular review and clarification sessions with stakeholders.
* **Environment Issues:** Ensure test environments are stable and reflective of production.
* **Testing Delays:** Prioritize critical test cases and allocate additional resources if needed.

#### **9. Approval**

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**Approved by:** Masai

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