### ****Test Plan for Login, SSO Login, and Registration Pages****

#### **1. Introduction**

The purpose of this test plan is to outline the testing approach for the **Login**, **SSO Login**, and **Registration** pages of the VWO platform. This plan defines the scope, objectives, testing methodology, resources, and schedule for the successful execution of testing these functionalities.

#### **2. Scope**

* **In-Scope**:
  + **Login Page**: Standard login with email and password, remember me functionality, forgot password link.
  + **SSO Login Page**: Single Sign-On (SSO) login functionality.
  + **Registration Page**: Registering a new account, email validation, full registration form with required fields.
* **Out-of-Scope**:
  + Backend API and integration testing.
  + Features beyond login, registration, and authentication.

#### **3. Objectives**

* Verify that users can successfully log in, use SSO, and register new accounts.
* Validate that all user inputs (e.g., email, password, privacy checkbox) are properly handled and validated.
* Ensure a secure and seamless user experience by preventing unauthorized access, validating required fields, and displaying appropriate error messages.

#### **4. Testing Types**

* **Functional Testing**:
  + Ensure that all functionalities such as login, SSO login, and registration work as intended.
* **Boundary Testing**:
  + Validate field limits (e.g., password length, email format).
* **Negative Testing**:
  + Test the system response to invalid inputs, such as incorrect email formats, weak passwords, and unchecked privacy policies.
* **Usability Testing**:
  + Ensure the UI is intuitive, and all components are displayed clearly to the user.
* **Regression Testing**:
  + Re-run tests after bug fixes to ensure previous functionalities remain unaffected.

#### **5. Test Items**

* **Login Page**:
  + Input validation for email and password.
  + Error handling for incorrect login credentials.
  + Functionality of "Remember me" checkbox and "Forgot Password" link.
* **SSO Login Page**:
  + Email input validation.
  + SSO login success and failure scenarios.
  + Navigation from and back to the Login page.
* **Registration Page**:
  + Initial email input page (e.g., entering business email).
  + Detailed registration form with all mandatory fields (e.g., name, phone number, password).
  + Privacy Policy checkbox validation.

#### **6. Testing Approach**

* **Manual Testing** will be carried out for all three pages.
* **JIRA** will be used for tracking test execution and bug reporting.
* **Test Cases** will be documented using the **Xray JIRA Plugin**, which will be used for managing the execution of these test cases.

#### **7. Entry and Exit Criteria**

* **Entry Criteria**:
  + All pages (Login, SSO Login, Registration) are developed and deployed in the test environment.
  + Test data is available for executing the tests.
  + Test environment is stable and accessible.
* **Exit Criteria**:
  + All test cases have been executed.
  + Critical and high-severity bugs have been resolved.
  + Test summary report has been documented and shared.

#### **8. Test Deliverables**

* **Test Plan Document**: This document defining the approach.
* **Test Cases Document**: Includes detailed steps to execute for Login, SSO, and Registration functionalities.
* **Test Summary Report**: A report summarizing the results of the testing process.
* **Bug Reports**: Documented in JIRA for any issues identified during testing.

#### **9. Test Environment**

* **Environment**: Testing will be conducted in a **staging environment** that mirrors the production setup.
* **Devices**:
  + **Browsers**: Chrome, Firefox, Safari, Edge.
  + **Devices**: Desktop and mobile devices.

#### **10. Test Schedule**

* **Test Planning**: 1 day
* **Test Design (Test Cases Creation)**: 2 days
* **Test Execution**: 3 days
* **Regression Testing**: 1 day
* **Bug Verification**: Ongoing throughout the test cycle

#### **11. Resources**

* **QA Team**:
  + **Manual Tester**: Responsible for executing the test cases and reporting bugs.
* **Tools**:
  + **JIRA** for bug tracking.
  + **Xray JIRA Plugin** for test case management.
  + **Google Sheets or Excel** to maintain a backup of test cases.

#### **12. Test Cases Overview**

**Login Page**:

* **Test Cases**: Validate login with valid and invalid credentials, "Remember Me", and "Forgot Password".
* **Expected Result**: Users are either logged in successfully or shown appropriate error messages.

**SSO Login Page**:

* **Test Cases**: Verify SSO login functionality and error handling.
* **Expected Result**: Users are redirected to appropriate SSO login and given appropriate success or failure messages.

**Registration Page**:

* **Test Cases**:
  + Validate email format in the initial registration step.
  + Validate all fields on the full registration form, including first name, last name, phone number, password, and the privacy policy checkbox.
* **Expected Result**: Users must only proceed after all mandatory fields are filled in and all conditions are met.

#### **13. Risk and Mitigation**

* **Risk**: Input validation issues may lead to unauthorized access or system vulnerabilities.
  + **Mitigation**: Perform boundary testing for all input fields and ensure security checks are implemented.
* **Risk**: Missing validation for Privacy Policy checkbox could lead to compliance issues.
  + **Mitigation**: Ensure all user agreements are mandatory before proceeding.

#### **14. Reporting**

* **Bug Tracking**: All issues encountered will be logged in JIRA with appropriate details and severity levels.
* **Test Summary**: A detailed report will be shared upon completion, including passed and failed test cases, along with open and closed bug details.

#### **15. Conclusion**

This updated test plan is designed to verify that the **Login**, **SSO Login**, and **Registration** functionalities work seamlessly, providing a secure and user-friendly experience. Any identified issues will be documented, addressed, and retested to ensure a high-quality user experience.