**Test Plan for VWO App (Login & Dashboard)**

**1. Introduction**

This document defines the test strategy, scope, objectives, and execution approach for testing the **Login and Dashboard functionality** of **VWO App (app.vwo.com)**. The primary goal is to **ensure secure authentication, seamless navigation, data integrity, and an intuitive user experience** across different environments.

**2. Scope**

**In-Scope**

* **Login Page Functionality**
  + User authentication (Valid/Invalid credentials)
  + Password reset and "Forgot Password?" flow
  + "Remember Me" feature validation
  + Multi-device login behaviour
  + Session timeout handling
* **Dashboard Functionality**
  + UI/UX verification
  + User role-based access control
  + Data retrieval accuracy
  + Navigation and responsiveness
  + Integration with backend services
* **Security & Performance Testing**
  + SQL Injection and XSS attack prevention
  + Unauthorized access restriction
  + API response validation for authentication

**Out of Scope**

* Third-party integrations unless they directly affect login functionality
* Non-functional testing like performance and load testing (covered separately)

**3. Test Objectives**

a) Validate **user authentication mechanisms** (Login, Logout, Forgot Password, SSO)  
 b) Ensure **dashboard accessibility** and correct data loading for different user roles  
c) Identify and report **functional and UI-related defects**  
d) Test **session management**, role-based access, and security vulnerabilities  
e) Verify **responsiveness across different devices and browsers**

**4. Test Approach**

**Functional Testing**

* Validate correct login/logout behavior
* Verify error handling for incorrect login attempts
* Ensure the **forgot password flow** sends reset emails correctly
* Test **session expiration and auto logout**

**Regression Testing**

* Ensure new feature updates do not break login/dashboard functionality

**Cross-Browser & Device Testing**

* Test on **Chrome, Firefox, Edge, and Safari**
* Validate responsiveness on **desktop, tablet, and mobile devices**

**Security Testing**

* Attempt SQL Injection and check if it is blocked
* Perform Cross-Site Scripting (XSS) attack tests
* Check role-based access control

**API Testing**

* Validate API responses for authentication requests
* Verify correct error handling in API responses

**5. Test Environment**

| **Component** | **Details** |
| --- | --- |
| **Browsers** | Chrome, Firefox, Edge, Safari |
| **Devices** | Desktop, Tablet, Mobile (iOS, Android) |
| **OS** | Windows, macOS, Android, iOS |
| **Test Data** | Different user roles, valid/invalid credentials |

**6. Test Deliverables**

* **Test Scenarios & Test Cases**
* **Test Execution Reports**
* **Defect Reports & Logs**
* **Final Test Summary Report**

**7. Entry & Exit Criteria**

**Entry Criteria:**

* Test environment setup is complete
* Required test data is available
* Test cases are reviewed and approved

**Exit Criteria:**

* All planned test cases have been executed
* No high-severity defects remain unresolved
* Test Summary Report has been submitted

**8. Risks & Mitigation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Potential Risk** |  |  | | --- | |  | | | **Mitigation Strategy** | | --- |  |  | | --- | |  | |
| |  | | --- | | Login issues in certain browsers |  |  | | --- | |  | | |  | | --- | | Regular cross-browser testing |  |  | | --- | |  | |
| |  | | --- | | API failures causing login failure |  |  | | --- | |  | | |  | | --- | | Implement robust API monitoring |      |  | | --- | |  | |
| |  | | --- | | Security vulnerabilities |  |  | | --- | |  | | Conduct periodic security audits |

**9. Conclusion**

This test plan aims to validate the **Login and Dashboard functionalities** of the **VWO App**, ensuring a **secure, user-friendly, and stable experience**. The testing process will follow an iterative approach to accommodate **continuous improvements and new feature enhancements**.