# **Test Plan (VWO.com)**

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## **Objective**

This document details the comprehensive test plan for the A/B testing platform available at **App.vwo.com**. The objective of this plan is to validate that all features and functionalities operate correctly and reliably for the intended user base, which includes digital marketers, product managers, and developers who utilize the platform to design and execute A/B tests across web and mobile environments.

## **Scope**

The scope of this test plan includes:

**Features to be tested:**

* User authentication (Login, Logout, Password Reset)
* Dashboard functionality
* Experiment creation (A/B Testing, Split Testing, Multivariate Testing)
* Goal tracking and analytics
* Integration with third-party tools (Google Analytics, Segment, etc.)
* User role and permissions management
* Performance and responsiveness across devices
* Security and data privacy compliance

**Types of testing:**

* Manual Testing
* Automated Testing
* Performance Testing
* Accessibility Testing

**Environments:**

* Different browsers (Google Chrome, Mozilla Firefox, Microsoft Edge, Safari)
* Operating systems (Windows, macOS, Linux)
* Device types (Desktops, Laptops, Tablets, Smartphones)

**Evaluation criteria:**

* Number of defects found
* Time taken to complete testing
* User satisfaction ratings

**Team roles and responsibilities:**

* Test Lead: Define test strategy and oversee execution
* Testers: Execute test cases and report defects
* Developers: Fix reported issues
* Product Managers: Provide feature requirements
* Stakeholders: Review test reports

### **Inclusions**

**Test Objectives:**

* Identify and fix defects before release
* Validate user experience and performance
* Ensure application stability and reliability

The following objectives will be tested for the following functionalities of portal

* Login
* Dashboard Page
* Create Account

### **Exclusions**

* Backend API testing (covered separately in API testing plans)
* Third-party tool functionalities beyond VWO integrations
* Internal administrative configurations

### **Test Environments**

**Operating Systems:**

* Windows 10 & 11
* macOS Monterey and later
* Ubuntu Linux

**Browsers:**

* Google Chrome (Latest 3 versions)
* Mozilla Firefox (Latest 3 versions)
* Microsoft Edge (Latest version)
* Safari (Latest version)

**Devices:**

* Desktop Computers & Laptops
* Tablets & Smartphones (iOS, Android)

**Network Connectivity:**

* Wi-Fi, Wired, and Cellular (4G/5G) connections

**Security Protocols:**

* Multi-Factor Authentication
* Secure HTTPS connections
* User session management

**Access Permissions:**

* Admin, Editor, Viewer roles for testing user access controls

|  |  |
| --- | --- |
| **Name** | **Env URL** |
| QA | qa.vwo.com |
| Pre Prod | preprod.vwo.com |
| UAT | uat.vwo.com |
| Prod | app.vwo.com |

### Defect Reporting Procedure

**Criteria for Identifying Defects:**

* Deviation from expected functionality
* UI/UX inconsistencies
* Performance issues (slow response time, lagging UI)
* Security vulnerabilities

**Steps for Reporting Defects:**

1. Document the defect with screenshots and logs
2. Assign severity and priority levels
3. Log the defect in JIRA (or another defect tracking tool)
4. Assign the defect to the respective developer
5. Track resolution status and retest after fixes

**Metrics Tracked:**

* Number of defects found
* Average time to resolve defects
* Percentage of defects fixed

|  |  |
| --- | --- |
| **Defect Process** | **POC** |
| New Frontend | nnn |
| Backend | yyy |
| Dev Ops | xxx |

### **Test Strategy**

**Step 1: Test Scenarios and Test Cases Creation**

**Techniques Used:**

* Equivalence Class Partitioning
* Boundary Value Analysis
* Decision Table Testing
* State Transition Testing
* Use Case Testing

**Additional Methods:**

* Error Guessing
* Exploratory Testing

**Step 2: Testing Procedure**

1. **Smoke Testing** - Verify critical functionalities (Login, Dashboard, Experiment Creation)
2. **Detailed Functional Testing** - Execute all test cases
3. **Performance Testing** - Evaluate response time and load handling
4. **Security Testing** - Verify authentication and data protection
5. **Regression Testing** - Ensure new updates do not break existing features

**Step 3: Best Practices**

* **Context-Driven Testing** - Testing based on application scenarios
* **Shift-Left Testing** - Early-stage testing
* **Exploratory Testing** - Unscripted testing for new defects
* **End-to-End Flow Testing** - Simulate real user journey

### Test Schedule

Following is the test schedule planned for the project –

Task Time Duration

|  |  |
| --- | --- |
| **Task** | **Dates** |
| ▪ Creating Test Plan | 3 Days |
| ▪ Test Case Creation | 5 Days |
| ▪ Test Case Execution | 10 Days |
| ▪ Summary Reports Submission Date | 2 Days |

**2 Sprints to Test the Application**

### **Test Deliverables.**



### **Entry and Exit Criteria**

The below are the entry and exit criteria for every phase of Software Testing Life

Cycle:

**Requirement Analysis:**

* **Entry:** Requirements document received
* **Exit:** Requirements clarified and signed off

**Test Execution:**

* **Entry:** Test cases approved, application ready for testing
* **Exit:** All test cases executed, defects logged and retested

**Test Closure:**

* **Entry:** Test execution complete, defect reports ready
* **Exit:** Test summary reports finalized

#### **Tools**

* **JIRA** - Bug Tracking
* **Mind Mapping Tool** - Test Strategy Planning
* **Snipping Tool** - Capturing Screenshots
* **Word/Excel** - Documentation
* **Selenium/Cypress** - Automation Testing
* **JMeter** - Performance Testing

#### **Risks and Mitigations**

The following are the list of risks expected and possible ways to mitigate them:

|  |  |
| --- | --- |
| Risk | Mitigation |
| Resource unavailability | Assign backup resources |
| URL not accessible | Ensure backup test environment |
| Time constraints | Prioritize high-impact test cases |

#### **Approvals**

**Documents for Approval:**

* Test Plan
* Test Scenarios
* Test Cases
* Test Reports

**Approval Required From:**

* QA Manager
* Product Manager
* Development Team