Test Plan (VWO.com)

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1. Overview

Objective: To ensure that app.vwo.com meets functional, performance, and security standards and provides a seamless experience to the end-user.
Scope: Covers functionality, UI/UX, performance, integrations, and security of app.vwo.com.

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2. Test Scope and Approach

Modules to Test:

- Login and Authentication

- Dashboard

- A/B Testing Functionality

- Multivariate Testing

- Heatmaps and Session Recording

- Reporting and Analytics

- User Management

- API Integration

- Billing and Subscription

Test Approach:

- Manual and Automated Testing

- Use exploratory, regression, functional, performance, and security testing methodologies.

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3. Test Objectives

1. Validate the core functionalities of app.vwo.com.

2. Ensure compatibility across major browsers and devices.

3. Verify data accuracy in reporting modules.

4. Test scalability and performance under load.

5. Ensure compliance with data privacy and security standards.

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4. Test Environment

Browsers:

- Chrome (latest 3 versions)
- Firefox (latest 3 versions)
- Safari (latest 3 versions)
- Edge (latest 3 versions)

Devices:

- Windows 10/11
- macOS
- Android (latest 2 versions)
- iOS (latest 2 versions)

Backend Requirements:

- Staging and Production Environments
- Simulated load testing tools (e.g., JMeter, Locust)

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5. Test Cases

Module: Login and Authentication

- Verify user login with valid credentials.
- Verify error message for invalid credentials.
- Check password reset functionality.
- Validate two-factor authentication (if enabled).

Module: A/B Testing

- Create and launch an A/B test campaign.
- Verify real-time preview of variations.
- Ensure proper segmentation and targeting rules.

Module: Reporting and Analytics

- Check report generation for completed campaigns.
- Validate accuracy of conversion metrics.
- Test export functionality (CSV, PDF).

Module: Security

- Test for OWASP Top 10 vulnerabilities.

- Validate access control for user roles.

- Check data encryption in transit and at rest.

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6. Testing Tools

Functional Testing:

- Selenium

- TestRail

Performance Testing:

- JMeter

- BlazeMeter

Security Testing:

- OWASP ZAP

- Burp Suite

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7. Deliverables

- Test Scenarios and Test Cases

- Bug Reports (with severity and priority)

- Test Execution Report

- Performance Metrics

- Security Audit Findings

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8. Test Schedule

Timeline:

- Test Planning: 1 week

- Test Case Design: 2 weeks

- Test Execution: 4 weeks

- Bug Fix Validation: Ongoing

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9. Risks and Mitigations

- **Risk**: Incomplete test coverage for complex integrations.
  Mitigation: Prioritize integrations in test cases and include API-specific tests.

- **Risk**: Performance degradation under high traffic.
  Mitigation: Perform stress and load testing early in the cycle.

This test plan can be customized further depending on the specifics of the app's features and the organization's priorities.