**1. Introduction**

This document outlines the test plan for the website **“App.vwo.com”**, a platform for A/B testing, multivariate testing, and personalization. The goal of this test plan is to ensure the website is functional, user-friendly, and performs well across different devices and browsers.

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**2. Objectives**

- Verify the functionality of all features.

- Ensure compatibility across browsers and devices.

- Validate performance under various load conditions.

- Confirm security and data integrity.

- Ensure a seamless user experience.

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**3. Scope**

The test plan covers the following areas:

- \*\*Functional Testing\*\*: Login, signup, dashboard, A/B testing features, reporting, and settings.

- \*\*UI/UX Testing\*\*: Layout, design, and responsiveness.

- \*\*Compatibility Testing\*\*: Cross-browser and cross-device testing.

- \*\*Performance Testing\*\*: Load time, stress testing, and scalability.

- \*\*Security Testing\*\*: Data encryption, authentication, and authorization.

- \*\*Regression Testing\*\*: Ensure new updates do not break existing functionality.

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**4. Test Approach**

- \*\*Manual Testing\*\*: For UI/UX, exploratory testing, and usability testing.

- \*\*Automated Testing\*\*: For regression, performance, and load testing.

- \*\*Tools\*\*: Selenium, JMeter, Postman, BrowserStack, and Lighthouse.

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**5. Test Scenarios**

**5.1 Functional Testing**

| \*\*Test Case ID\*\* | \*\*Description\*\* | \*\*Expected Result\*\* |

|------------------|------------------------------------------|-----------------------------------------|

| TC\_FN\_01 | Verify user login functionality. | User should be able to log in successfully. |

| TC\_FN\_02 | Verify user signup functionality. | New user should be able to create an account. |

| TC\_FN\_03 | Verify A/B test creation. | User should be able to create a new A/B test. |

| TC\_FN\_04 | Verify test results and reporting. | Test results should be displayed accurately. |

| TC\_FN\_05 | Verify account settings update. | User should be able to update profile information. |

**5.2 UI/UX Testing**

| \*\*Test Case ID\*\* | \*\*Description\*\* | \*\*Expected Result\*\* |

|------------------|------------------------------------------|-----------------------------------------|

| TC\_UI\_01 | Verify website layout and design. | Layout should be consistent and visually appealing. |

| TC\_UI\_02 | Verify responsiveness on mobile devices. | Website should adapt to different screen sizes. |

| TC\_UI\_03 | Verify accessibility (e.g., alt text). | Website should meet accessibility standards. |

**5.3 Compatibility Testing**

| \*\*Test Case ID\*\* | \*\*Description\*\* | \*\*Expected Result\*\* |

|------------------|------------------------------------------|-----------------------------------------|

| TC\_CM\_01 | Verify compatibility with Chrome. | Website should function correctly on Chrome. |

| TC\_CM\_02 | Verify compatibility with Firefox. | Website should function correctly on Firefox. |

| TC\_CM\_03 | Verify compatibility with Safari. | Website should function correctly on Safari. |

| TC\_CM\_04 | Verify compatibility with Edge. | Website should function correctly on Edge. |

**5.4 Performance Testing**

| \*\*Test Case ID\*\* | \*\*Description\*\* | \*\*Expected Result\*\* |

|------------------|------------------------------------------|-----------------------------------------|

| TC\_PF\_01 | Verify page load time. | Pages should load within 3 seconds. |

| TC\_PF\_02 | Verify website under high load. | Website should handle 1000+ concurrent users. |

| TC\_PF\_03 | Verify API response time. | API responses should be under 500ms. |

**5.5 Security Testing**

| \*\*Test Case ID\*\* | \*\*Description\*\* | \*\*Expected Result\*\* |

|------------------|------------------------------------------|-----------------------------------------|

| TC\_SC\_01 | Verify SSL certificate. | Website should use HTTPS. |

| TC\_SC\_02 | Verify password encryption. | Passwords should be encrypted. |

| TC\_SC\_03 | Verify unauthorized access. | Unauthorized users should not access restricted areas. |

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**6. Test Environment**

- \*\*Browsers\*\*: Chrome, Firefox, Safari, Edge.

- \*\*Devices\*\*: Desktop, tablet, mobile.

- \*\*Operating Systems\*\*: Windows, macOS, iOS, Android.

- \*\*Network\*\*: Wi-Fi, 4G/5G.

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**7. Test Schedule**

| \*\*Task\*\* | \*\*Start Date\*\* | \*\*End Date\*\* | \*\*Responsible Team\*\* |

|-------------------------|----------------|----------------|-----------------------|

| Functional Testing | 2023-11-01 | 2023-11-05 | QA Team A |

| UI/UX Testing | 2023-11-06 | 2023-11-08 | QA Team B |

| Compatibility Testing | 2023-11-09 | 2023-11-12 | QA Team C |

| Performance Testing | 2023-11-13 | 2023-11-15 | QA Team D |

| Security Testing | 2023-11-16 | 2023-11-18 | QA Team E |

| Regression Testing | 2023-11-19 | 2023-11-22 | QA Team A |

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**8. Entry and Exit Criteria**

- \*\*Entry Criteria\*\*:

- Test environment is set up.

- Test cases are reviewed and approved.

- Test data is prepared.

- \*\*Exit Criteria\*\*:

- All test cases are executed.

- All critical bugs are fixed and retested.

- Test summary report is prepared and approved.

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**9. Risks and Mitigation**

| \*\*Risk\*\* | \*\*Mitigation\*\* |

|------------------------------|---------------------------------------------|

| Delays in test execution. | Allocate additional resources. |

| Browser-specific bugs. | Prioritize testing on high-usage browsers. |

| Performance bottlenecks. | Optimize code and infrastructure. |

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**10. Deliverables**

- Test cases and test scripts.

- Test execution reports.

- Bug reports.

- Test summary report.

**11. Approvals**

| \*\*Role\*\* | \*\*Name\*\* | \*\*Signature\*\* | \*\*Date\*\* |

|------------------|----------------|---------------|----------------|

| QA Manager | [Name] | [Signature] | [Date] |

| Project Manager | [Name] | [Signature] | [Date] |

| Development Lead | [Name] | [Signature] | [Date] |