Test Strategy Document

# Project: app.vwo.com

## 1. Introduction

This Test Strategy document outlines the testing approach for the web application https://app.vwo.com. The document is intended to provide a high-level overview of the testing objectives, scope, methodologies, tools, and responsibilities for the QA team. Given 15+ years of experience in the software testing domain, the strategies outlined are industry-standard and tailored to ensure complete test coverage and risk mitigation.

## 2. Objective

The objective is to define a structured approach to test the functionality, performance, security, and usability of app.vwo.com, ensuring that the application meets all requirements, is free from critical defects, and is ready for production deployment.

## 3. Scope

The testing scope includes:  
- Functional Testing  
- UI/UX Testing  
- Regression Testing  
- Integration Testing  
- System Testing  
- Performance Testing  
- Security Testing  
- Cross-browser and Cross-device Testing  
- Accessibility Testing

## 4. Test Approach

The following test levels and types will be employed:  
  
4.1 Manual Testing:  
- Manual exploratory and scenario-based testing.  
- Functional test cases for all modules.  
  
4.2 Automation Testing:  
- Automation will be considered for stable regression suites using Selenium + TestNG or Cypress.  
  
4.3 Performance Testing:  
- Load testing using JMeter or similar tools.  
  
4.4 Security Testing:  
- Basic vulnerability assessments using tools like OWASP ZAP.

## 5. Tools & Technologies

- Test Management: TestRail / Zephyr  
- Bug Tracking: Jira  
- Automation: Selenium, Cypress  
- Performance: JMeter  
- Security: OWASP ZAP  
- CI/CD: Jenkins, GitHub Actions

## 6. Roles and Responsibilities

- QA Lead: Test planning, strategy review, defect triage.  
- QA Engineers: Test case creation, execution, reporting.  
- Developers: Fixing bugs, assisting with technical queries.  
- Product Owners: Requirement clarification, user acceptance.

## 7. Deliverables

- Test Plan  
- Test Scenarios & Test Cases  
- Test Execution Reports  
- Defect Reports  
- Final Test Summary Report

## 8. Exit Criteria

- All high and critical priority test cases are executed and passed.  
- No open critical defects.  
- Final test summary report reviewed and signed-off.  
- UAT completed and accepted by stakeholders.

## 9. Risks and Mitigation

- Changing requirements: Maintain traceability and communicate impact early.  
- Short timelines: Prioritize critical test cases using risk-based testing.  
- Test environment issues: Maintain backup environments and detailed setup documentation.