Test Plan:

1. Objective

The objective of this test plan is to ensure the functionality, usability, performance, security, and reliability of the www.vwo.com website. The goal is to identify and fix defects before the website goes live to ensure an optimal user experience.

2. Scope

The test plan covers end-to-end testing of www.vwo.com, including the login process, dashboard functionalities, A/B testing capabilities, heatmaps, user journey tracking, and integrations. The focus will be on functional, usability, performance, security, and cross-browser testing.

3. Inclusions

- Functional Testing (Login, Dashboard, A/B Testing, Reports, Integrations)
- UI/UX Testing
- Performance Testing
- Security Testing
- Compatibility Testing (Browser, Device, OS)
- API Testing
- Regression Testing
- Accessibility Testing
- User Role-Based Testing

4. Test Environments

The website will be tested on the following environments:

- **Operating Systems**: Windows, macOS, Linux
- **Browsers**: Chrome, Firefox, Edge, Safari
- **Devices**: Desktop, Tablet, Mobile (Android & iOS)
- **Network Conditions**: Low Bandwidth, High Latency, Offline Mode Testing

5. Defect Reporting Procedure

- Defects will be logged in **JIRA**.

- Each defect will include a **Title, Description, Steps to Reproduce, Expected vs. Actual Result, Severity, and Priority**.
- The status of defects will be tracked (New, Assigned, In Progress, Fixed, Retested, Closed).
- Defects will be communicated in daily stand-up meetings.

6. Test Strategy

a) Functional Testing

- Verify user authentication, dashboard elements, and core functionalities such as A/B testing setup, heatmaps, and reports.

b) Performance Testing

- Load testing to measure how the site performs under high traffic.
- Stress testing to determine website behavior under extreme conditions.

c) Security Testing

- Verify data encryption, authentication, and authorization.
- Check for SQL injection, cross-site scripting (XSS), and data leaks.

d) Compatibility Testing

- Test across multiple browsers and devices to ensure UI consistency.

e) Regression Testing

- Retest core functionalities after every release or update.

f) Accessibility Testing

- Ensure compliance with **WCAG 2.1** accessibility guidelines.

7.Test Schedule

Task	Start Date	End Date
Test Planning	01/03/2025	01/03/2025
Test Case Design	02/03/2025	05/03/2025
Test Environment Setup	06/03/2025	08/03/2025
Test Execution	09/03/2025	12/03/2025
Defect Reporting & Retesting	13/03/2025	16/03/2025
Test Closure	17/03/2025	19/03/2025

8. Test Deliverables

- Test Plan Document
- Test Cases & Test Scripts
- Test Data
- Defect Reports
- Test Execution Reports
- Final Test Summary Report

9. Test Execution

- Test cases will be executed manually and automated where applicable.
- Daily test progress will be reported.
- Major defects will be prioritized for immediate fixes.

10. Test Closure

- Ensure all high-priority defects are fixed and retested.
- Perform final regression testing.
- Prepare a **Test Closure Report**, summarizing test coverage, defect statistics, and overall quality assessment.
- Obtain final approval before deployment.

11. Tools

- **Test Management**: JIRA, TestRail
- **Automation**: Selenium, Cypress
- **Performance Testing**: JMeter, LoadRunner
- **Security Testing**: Burp Suite, OWASP ZAP
- **Browser Compatibility**: BrowserStack, LambdaTest

12. Risks and Mitigations

Risk	Mitigation
Tight deadlines	Prioritize test cases based on risk and impact.
Frequent changes in requirements	Maintain close collaboration with stakeholders and adapt testing accordingly.
Cross-browser inconsistencies	Perform compatibility testing on all supported browsers.
Performance degradation under high traffic	Conduct thorough load and stress testing.
Security vulnerabilities	Perform regular security audits and penetration testing.

13. Approvals

- **Prepared by:** [Moumita Dasgupta]
- **Reviewed by:** [Lead/Manager Name]
- **Approved by:** [Project Manager/Stakeholder]