**TEST\_PLAN**

Project Name : Masai School

URL Link : <https://www.masaischool.com/>

## **1. Introduction**

The purpose of this test plan is to define the testing strategy for the Masai School website. It ensures that the website meets functional and non-functional requirements, is free from critical defects, and provides an optimal user experience.

## **2. Objectives**

* Validate the core functionality of the website.
* Ensure compatibility across different browsers and devices.
* Verify the performance and security aspects.
* Identify and report defects to improve the website quality.
* Ensure smooth navigation and accessibility.

## **3. Scope**

* Homepage, Courses, Admissions, Contact Us, and Blog pages.
* User registration and login functionality.
* Course application process.
* Payment gateway integration (if applicable).
* Responsiveness on desktop, tablet, and mobile devices.
* Compatibility testing across Chrome, Firefox, Edge, and Safari.

## **4. Testable Features**

* User authentication (sign-up, login, logout, password reset).
* Course browsing and enrollment process.
* Navigation and link verification.
* Content correctness (text, images, videos).
* Form validations and error handling.
* Responsiveness and UI consistency.
* Performance (loading speed, uptime, stress testing).
* Security (SQL Injection, XSS, user data protection).

## **5. Testing Approach**

* **Functional Testing:** Validate core features and workflows.
* **UI/UX Testing:** Check layout, design, and user experience.
* **Compatibility Testing:** Verify across browsers and devices.
* **Performance Testing:** Measure page load speed and response time.
* **Security Testing:** Identify vulnerabilities in user data handling.
* **Regression Testing:** Ensure fixes do not break existing functionality.
* **Automation Testing:** Selenium with Page Object Model (POM) for automated UI testing.

## **6. Roles/Responsibilities**

* **QA Engineers:** Test execution, defect reporting, and automation.
* **Developers:** Fixing defects and implementing improvements.
* **Project Manager:** Test plan approval and resource allocation.
* **Product Owner:** Define feature requirements and acceptance criteria.

## **7. Test Schedule**

* Test Case Preparation: 2 weeks
* Functional Testing: 3 weeks
* Performance & Security Testing: 1 week
* Regression Testing: 1 week
* Test Completion & Reporting: 1 week

## **8. Test Deliverables**

* Test Plan Document
* Test Cases
* Test Scripts (for automated testing)
* Defect Report
* Test Execution Report
* Final Test Summary Report

## **9. Entry & Exit Criteria**

### **Entry Criteria:**

* Requirements finalized and approved.
* Development phase completed for testable modules.
* Test environment setup ready.
* Test cases prepared and reviewed.

### **Exit Criteria:**

* All high and critical defects fixed and verified.
* Test execution completed with 95% pass rate.
* Performance and security benchmarks met.
* Stakeholder approval received.

## **10. Tools**

* **Test Management:** Jira, TestRail
* **Automation:** Selenium WebDriver with Java (POM framework)
* **Performance Testing:** JMeter
* **Bug Tracking:** Jira, Bugzilla
* **Browser Testing:** BrowserStack, LambdaTest

## **11. Risks and Mitigation Plans**

| **Risk** | **Mitigation Strategy** |
| --- | --- |
| Changing website requirements | Regular sync-up with stakeholders |
| Delayed bug fixes | Prioritize critical defects and follow-up with developers |
| Inconsistent test environment | Use stable test environments and backups |
| Third-party integration issues | Conduct API testing and collaborate with vendors |

## **12. Approvals**

Masai will send different types of documents for Client Approval like below:

● **Test Plan**

● **Scenarios**

● **Scripts**

●  **Reports**

Testing will only continue to the next steps once these approvals are done.