PROJECT DOCUMENTATION

TEST PLAN Document

Project Name: Learning Management System (Learnfi)

Release Date: 15 June 2025

Author: Vinali.R.Samarasinghe

Owner: P.L.Darshana

Client: -

Version No: 1.0

1   Project Test Plan History

1.1   Document Location

This document is only valid on the day it was printed.
The source of the document will be found on the project's PC in location.

1.2   Review History

Date of this Review: 30/04/2025
Date of Next Review: Pending

Review Date	Previous Review Date	Summary of Changes	Changes marked
30/04/2025	-	Initial draft of test plan created	yes
Pending			

1.3   Approvals

This document requires the following approvals:
Signed approval forms are filed in the Management section of the project files.

Name	Signature	Title	Date	Version
Vinali Samarasinghe		QA Lead	30/04/2025	v1.0
Nuwan Perera		Project Manager	30/04/2025	v1.0
Tharushi Fernando		Development Lead	30/04/2025	v1.0

1.4   Distribution

This document has been distributed to:

Name	Title	Date	Version
Vinali Samarasinghe	QA Lead	30/04/2025	v1.0
Nuwan Perera	Project Manager	30/04/2025	v1.0
Tharushi Fernando	Development Lead	30/04/2025	v1.0
Dilan Jayasinghe	QA Engineer	30/04/2025	v1.0
Hashini Weerakoon	QA Engineer	30/04/2025	v1.0

2   Table of Contents

Project Test Plan

2.1   Overview

The objective of this test plan is to define the testing approach, scope, methodology, and resources required for the LearnFi website (https://learnfi.lk/). This document ensures that all functional, non-functional, performance, security, and usability aspects of the system are validated prior to deployment.

2.2   Scope

2.2.1   Inclusions

- Functional Testing: Validation of all website functionalities including registration, login, payments, and course access.
- Performance Testing: Load and stress testing to assess site responsiveness under varying traffic conditions.
- Security Testing: Verification of data encryption, authentication mechanisms, and vulnerability assessments.
- Usability Testing: Evaluation of user experience and accessibility.Compatibility Testing: Ensuring proper functionality across browsers and devices.
- UI/UX Testing: Assessment of website responsiveness across multiple devices and browsers, consistency in design, layout, and navigation

2.2.2   Test Environment

- Operating Systems: Windows, macOS, Linux, iOS, Android.
- Browsers: Chrome, Firefox, Safari, Edge.
- Devices: Desktop, Tablet, Mobile.
- Test Data: Dummy user accounts, test course purchases

2.2.3   Exclusions

- Third-party service integrations will not be tested in detail beyond API response validation.
- Manual code reviews beyond the test team's scope.

3   Purpose

This document provides a structured approach to testing the LearnFi website to ensure reliability, usability, security, and performance meet the required standards.

3.1   Test Strategy

- Manual testing methodologies.
- Black-box Testing: Focused on validating the website's functionality and UI
- Cross-Browser and Device Testing: Ensuring the website works consistently across supported browsers and devices.
- Regression testing for ongoing updates.

3.2   Test Schedule

Following is the best schedule planned for the project:

Task	Time Duration
Creating Test Plan	30/04/2025 - 01/05/2025
Test Case/Test Scenario Creation	02/05/2025 - 06/05/2025
Test Case Execution	02/05/2025 -
Bug Tracking and Reporting	02/05/2025 -
RTM Creation	10/05/2025 - 11/05/2025
Summary Reports Submission	13/05/2025

3.3   Test Deliverables

The following are to be delivered to the client:

Deliverables	Description	Target Completion Date
Test Plan	Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables, and schedule	01/05/2025
Test Scenarios and Test Cases	Test cases created for the scope defined	06/05/2025
Defect (Bug) Reports	Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis	10/05/2025
RTM Documents	Mapping of requirements to test cases to ensure complete coverage and validation of all project requirements.	11/05/2025
Summary Reports	Summary Reports	13/05/2025

3.4   Pricing

Testing costs will be determined based on team hours, automation tool costs, infrastructure, and third-party tool usage.

4   Entry and Exit Criteria

Entry Criteria:

- Requirement document approval.
- Test cases reviewed and approved.
- Test environment setup completed.

Exit Criteria:

- No critical defects remain unresolved.
- All test cases executed with at least 95% pass rate.
- Test summary report submitted and approved.

5   Acceptance Criteria

- Website functionality meets business and user requirements.
- Performance remains stable under expected traffic load.
- No critical usability issues found.
- No unresolved security vulnerabilities remain.
- Website is responsive and free from major usability issues.
- Functions properly across supported browsers and devices.

6   Suspension and Resumption Criteria

Suspension:

- Severe defects blocking further testing.
- Environment unavailability.

Resumption:

- Fixes implemented and verified.
- Test environment restored.

7   Roles and Responsibilities

Project Manager	Oversees the overall project progress, coordinates between teams, and approves final test deliverables.
QA Lead	Plans and manages the testing activities, prepares the test plan, monitors execution, and reports test progress.
Testers	Design and execute test cases, report defects, retest fixes, and ensure coverage of all requirements.

Developers	Fix reported defects, provide clarifications on functionality, and assist with environment setup if needed
Business Analyst	Provides requirement clarifications, reviews test cases, and ensures testing aligns with business needs.

8   Applicable Standards

- ISTQB Guidelines
- ISO 25010 Software Quality Standards

9   Specialist Work Quality Assurance and Audit Processes

- Peer reviews of test cases and scripts.
- Regular defect triage meetings.
- Automated reports for test coverage tracking.

10   Management Procedures

- Weekly progress updates to stakeholders.
- Continuous integration with test automation.
- Risk assessment meetings at every phase.

11   Defect Reporting Procedures

- Defects logged in a defect management tool (e.g., Jira,Google Worksheets).
- Severity and priority assigned based on impact.
- Fix verification before closure.

12   Tools

- Selenium for automation testing.
- JMeter for performance testing.
- PostMan for API testing..

13   Risk and Mitigations

Risk	Mitigation Strategy
Delayed requirements	Regular communication with stakeholders.
Environment issues	Use cloud-based test environments.
Security vulnerabilities	Regular security audits and penetration testing.

14   Approvals

Name	Role	Date
Vinali Samarasinghe	QA Lead	01/05/2025
Nuwan Perera	Project Manager	01/05/2025
Tharushi Gamage	Business Analyst	01/05/2025