**PROJECT DOCUMENTATION**

**TEST PLAN**

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Author: K.D.S.T jayawardhana

Owner: P.L.Darshana

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**Learning Management System (Learnfi)**

**Project Test Plan Date: 19th Mar 2025**

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 the location.

**1.2 Review History**

**Date of this Review: Pending**

**Date of Next Review: Pending**

| **Review Date** | **Previous Review Date** | **Summary of Changes** | **Changes marked** |
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**1.3 Approvals**

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

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**1.4 Distribution**

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**Project Test Plan**

**2.1 Overview**

Outlining the manual testing methodology, scope, strategy, and resources needed for the Learnfi LMS platform is the aim of this test plan. Before the system is deployed, this paper outlines the testing procedure to make sure it satisfies functional, performance, security, and usability requirements.

**2.2 Scope**

The testing process covers functionalities outlined in the System Requirements Specification (SRS) for Public User (Student).

**2.2.1 Inclusions**

* User authentication (sign-up, login, logout, password reset, and email verification).
* Course search, filtering, and enrollment.
* Purchase history tracking.
* Viewing and managing profile information.
* Contacting platform support.

**2.2.2 Test Environment**

* Operating Systems: Windows, macOS, Linux.
* Browsers: Chrome, Firefox, Edge, Safari.
* Devices: Desktop, tablet, and mobile.
* **Test Data**: Sample student accounts, course listings, and payment transactions.

**2.2.3 Exclusions**

* Admin and instructor features.
* services provided by third parties that Learnfi has no control over.
* Testing UI/UX design goes beyond routine usability evaluations.

**3 Purpose**

This document provides a structured approach to **manual testing** for Learnfi LMS, ensuring that student-related features work as expected.

**3.1 Test Strategy**

* **Functional Testing**: Validate workflows for student users.
* **Exploratory Testing**: Identify unexpected issues.
* **Security Testing**: Ensure authentication and access control security.
* **Usability Testing**: Confirm intuitive navigation and ease of use.

**3.2 Test Schedule**

Following is the best schedule planned for the project:

| **Task** | **Time Duration** |
| --- | --- |
| Creating Test Plan | 1 week |
| Test Case/Test Scenario Creation | 2 week |
| Test Case Execution | 2 Days |
| Bug Tracking and Reporting | 3 Days |
| RTM Creation | 1Day |
| Summary Reports Submission | 1 Day |

**3.3 Test Deliverables**

**The following are to be delivered to the client:**

| **Deliverables** | **Description** | **Target Completion Date** |
| --- | --- | --- |
| Test Plan | Comprehensive scope document and testing approach | **19.03.2025** |
| Test Scenarios and Test Cases | Test cases, both functional and non-functional, for the general public (students) | **08.04.2025** |
| Defect (Bug) Reports | Bug reports that include logs and screenshots | **08.04.2525** |
| RTM Documents | Linking requirements and test cases | **08.04.2025** |
| Summary Reports | Summary of test completion and bug fixes | **13.04.2025** |

**3.4 Pricing**

**4 Entry and Exit Criteria**

**Entry Criteria:**

* approved requirements paper for the system.
* Features pertaining to students have been developed and completed.
* Configuring the test environment.
* Accessibility of necessary test data.

**Exit Criteria:**

* All critical test cases executed.
* No high-priority defects remain unresolved.
* Test reports reviewed and approved.

**5 Acceptance Criteria**

**6 Suspension and Resumption Criteria**

Suspension:

* Critical defects blocking further testing.
* Unavailable test environment.

Resumption:

* Fixes implemented and verified.
* Test environment restored.

**7 Roles and Responsibilities**

| **QA Lead** | Oversees the test plan execution |
| --- | --- |
| **Test Engineers** | Execute test cases and report defects |
| **Developers** | Fix identified defects |
| **Project Manager** | Ensure overall project timeline adherence |

**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**

**11 Defect Reporting Procedures**

**12 Tools**

* Google Sheets for test case management.
* Jira for bug tracking.

**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**