User Acceptance Testing (UAT) Template

Date 19 July 2025

Team ID : LTVIP2025TMID33417

Project Name : Personalized Learning with Generative AI and LMS Integration

Project Overview:

Project Name Personalized Learning with Generative AI and LMS Integration

Project Description This project integrates Generative AI into Learning Management Systems (LMS) to create personalized learning content, quizzes, and summaries for learners. The system adapts in real-time to each learner's needs, improving engagement, retention, and educator efficiency.

Project Version 1.0.0

Date 16 july 2025

*Testing Scope:*

User login and profile setup in LMS

Generative AI-based content generation (lessons, quizzes, summaries)

Real-time learning path adaptation based on user interaction

Quiz and content recommendation accuracy

Dashboard for educators to monitor learner progress

API integration with LMS platforms

*User Story Example:*

As a learner, I want to receive personalized content based on my progress.

As a learner, I want quizzes to adapt to my skill level.

As an educator, I want to track learner engagement and AI-generated suggestions.

*Testing Environment:*

URL/Location http://localhost:9000/learning\_ai or /home/user/learning\_ai\_app

Credentials (if required) learner1 / learner123<br>admin / admin123

*Test Cases:*

Test Case ID Test Scenario Test Steps Expected Result Actual Result Pass/Fail

TC-001 Generate personalized lesson Login, Select topic "Algebra", Click "Generate Lesson" AI generates lesson tailored to learner's level Lesson generated as expected Pass

TC-002 Generate adaptive quiz Login, Select "Practice Quiz", Click "Generate Quiz" Quiz with adaptive difficulty generated Quiz generated correctly Pass

TC-003 Submit invalid input Login, Upload invalid content file (unsupported format), Submit Error message shown Error message displayed Pass

TC-004 View educator dashboard Login as educator, Open "Learner Analytics" Dashboard displays real-time learner progress and AI suggestions Data displayed correctly Pass

TC-005 Learning path update Complete lesson, Skip quiz intentionally Learning path adapts with remedial content Adaptive content suggested Pass

*Bug Tracking:*

Bug ID Bug Description Steps to Reproduce Severity Status Additional Feedback

BG-001 Quiz generator occasionally repeats same questions Generate multiple quizzes rapidly Medium Open Needs content variation improvements

BG-002 Learner dashboard slow to update progress Complete lesson, Check dashboard immediately Low In Progress Optimize data sync frequency

BG-003 Incorrect language detected for multilingual user Select "Spanish", generate content, gets English output High Open Check language model configuration

Sign-off:

Tester Name QA Tester 2

Date 27 June 2025

Signature [Signed Electronically]

Notes:

Test both positive and negative scenarios.

Collect feedback for future enhancements.

Ensure all bugs are tracked with severity, status, and reproduction steps.

Obtain sign-off from project manager and product owner before deployment.