# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 05 June 2025 |
| Team ID | LTVIP2025TMID35592 |
| Project Name | EduTutor AI: Personalized Learning With Generative AI And LMS Integration |
| Maximum Marks | 4 |

## **Test Scenarios & Results**

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| **Test Case ID** | **Scenario (What to test)** | **Test Steps (How to test)** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **TC-001** | **Generate personalized lesson**  **plan** | **1. Login as instructor 2. Enter topic and learner profile 3. Trigger content generation** | **System generates a tailored lesson plan matching learner profile** | **Lesson plan generated with personalized objectives and outcomes** | **✅ Pass** |
| **TC-002** | **AI-generated quiz creation** | **1. Select a module 2. Click “Auto-generate Quiz” button** | **A quiz is generated with varied question types (MCQ, short answers) linked to the module** | **Quiz created with 5 MCQs and 2 short-answer questions as expected** | **✅ Pass** |
| **TC-003** | **Content push to LMS** | **1. Choose content 2. Click “Publish to LMS” 3. Select Moodle as target** | **Content appears correctly in Moodle with proper formatting and links** | **Content pushed successfully but formatting tags not rendered correctly in LMS** | **❌ Fail** |
| **TC-004** | **Real-time student performance** **dashboard** | **1. Login as instructor 2. Navigate to analytics tab 3. View dashboard** | **Dashboard shows student engagement, progress, and performance trends** | **Engagement graph and learner scores visible; heatmap component loaded with delay** | **✅ Pass** |
| **TC-005** | **Adaptive learning recommendations based on quiz performance** | **1. Login as student 2. Take quiz 3. Submit and view recommendation** | **Platform recommends next modules or learning materials based on score and pattern** | **Recommendation generated, but lacked justification text for low score suggestion** | **❌ Fail** |
| **TC-006** | **Instructor feedback refinement loop** | **1. Review AI-generated lesson 2. Make edits and save** | **Platform updates content with instructor changes and logs feedback for AI improvement** | **Lesson updated successfully; changes visible in subsequent AI generation output** | **✅ Pass** |