# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID30306 |
| Project Name | EduTutor AI: Personalized Learning with Generative AI and LMS Integration |
| Maximum Marks |  |

## **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** |
| **FT-01** | Student Query Input Validation | Enter various student-level questions (valid, irrelevant, blank) | Accepts relevant questions, shows error for blanks/irrelevant | Accepted valid questions; displayed error for blank/irrelevant entries | ✅ Pass |
| **FT-02** | Topic Selection Filtering | Choose academic topics from dropdown, search for invalid topics | Filters valid topics, shows “not found” for invalid ones | Filtered correct topics; displayed “Not Found” for invalid topics | ✅ Pass |
| **FT-03** | Personalized Content Generation | Input topic, grade level, learning goal, click Generate | Returns tailored tutoring material  (quiz/video/explainer) | Generated customized content including quizzes and videos as per input | ✅ Pass |
| **FT-04** | LMS Integration Check | Sync with LMS (e.g., Moodle), test login, course fetch | Successfully connects and fetches user courses | Successfully integrated with Moodle LMS; fetched user courses | ✅ Pass |
| **PT-01** | Real-Time Response Test | Measure AI’s reply time for question-answer session | Less than 2 seconds for each response | Response time consistently <2 seconds | ✅ Pass |
| **PT-02** | Scalability under Load | Simulate 100+ concurrent students using platform | Platform remains stable, no crashes | Handled 100+ users without downtime or performance drop | ✅ Pass |
| **PT-03** | File Input Handling | Upload different formats (PDF, DOCX, PPT) as input | All formats processed accurately without error | Accurately processed PDF, DOCX, and PPT files | ✅ Pass |