

Functional & Performance Testing Template

Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID32116
Project Name	EduTutor AI: Personalized Learning with Generative AI and LMS Integration
Maximum Marks	

Test Scenarios & Results

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Text Input Validation (Quiz Topic, Name fields)	Enter valid and invalid text into registration and quiz topic fields	Valid inputs accepted, errors shown for invalid inputs	Valid text accepted, appropriate error messages for invalid inputs	Pass
FT-02	Number Input Validation (Word count, MCQ options)	Enter numbers within and beyond valid range in quiz settings	Accepts valid values, shows error for out-of-range values	Correct validation behavior observed	Pass
FT-03	Quiz Content Generation (Granite AI model)	Provide valid topic, select question count and difficulty, then generate quiz	Correct quiz generated as per input parameters	AI-generated quizzes accurately matched inputs	Pass
FT-04	AI API Connection Check (Granite/Watsonx)	Verify API key setup and test quiz generation call	API responds successfully	API keys valid and AI responses received as expected	Pass
PT-01	AI Quiz Response Time Test	Measure time from quiz submission to AI response	Response time under 3 seconds	Average response time: 2.3 seconds	Pass

PT-02	Concurrent API Requests Test	Send multiple quiz generation API calls simultaneously (e.g., 10–15 requests)	API should not slow down, handle requests concurrently	Stable response time, no failures under 15 concurrent calls	Pass
PT-03	Real-Time Analytics Load Test (Dashboard updates)	Submit multiple quiz results at once and check educator dashboard updates	Should reflect results without lag, no dashboard crashes	Dashboard updated instantly with accurate results	Pass