

Functional & Performance Testing Template

Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID31153
Project Name	Edu Tutor 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 (e.g., concept/topic)	Enter valid topics like "Generative AI" and invalid entries like "123##"	Valid topics are accepted; invalid inputs trigger error messages	Validated successfully	✓ Pass
FT-02	Number Input Validation (e.g., quiz count)	Enter quiz count from 1 to 10, and test invalid like -1 or 100	Accepts values 1–10; shows error for out-of-range values	Working as expected	✓ Pass
FT-03	Content Generation (concepts/quizzes)	Provide a topic and generate explanation/quiz	AI generates relevant and grammatically correct content	Accurate output generated	✓ Pass
FT-04	API Connection Check	Connect using Hugging Face API token and load IBM Granite model	Model loads and responds without authentication error	Model loaded successfully	✓ Pass
PT-01	Response Time Test	Measure time to generate content using a stopwatch	Responses should return within 3 seconds	Returned in ~2.2 seconds	✓ Pass
PT-02	API Speed Test	Trigger 5 quiz generations at once using different users	All responses returned without delay	No lag or delay noticed	✓ Pass
PT-03	File Upload Load Test (PDF processing)	Upload large and multiple PDFs for test generation	No crash or lag during PDF reading & question creates	System handled it smoothly	✓ Pass

