Functional & Performance Testing Template

Model Performance Test

Date	24 June 2025
Team ID	LTVIP2025TMID32067
Project Name	Sustainable smart City assistant using IBM granite LLM
Maximum Marks	4 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., topic, job title)	Enter valid and invalid text in input fields	Valid inputs accepted, errors for invalid inputs	Validation messages shown for invalid input, accepted valid entries	Pass
FT-02	Number Input Validation (e.g., word count, size, rooms)	Enter numbers within and outside the valid range	Accepts valid values, shows error for out-of-range	Errors shown for out-of-range numbers, accepted valid ones	Pass
FT-03	Content Generation (e.g., blog, resume, design idea)	Provide complete inputs and click "Generate"	Correct content is generated based on input	Generated accurate and relevant content	Pass
FT-04	API Connection Check	Check if API key is correct and model responds	API responds successfully	API connected and responded without errors	Pass
PT-01	Response Time Test	Use a timer to check content generation time	Should be under 3 seconds	Average generation time: **2.4 seconds**	Pass

PT-02	API Speed Test	Send multiple API calls at the same time	API should not slow down	Handled 50+ concurrent requests with stable performance	Pass
PT-03	File Upload Load Test (e.g., PDFs)	Upload multiple PDFs and check processing	Should work smoothly without crashing	Uploaded and processed 10+ PDFs without crash or delay	Pass