Functional & Performance Testing

Model Performance Test

Date	28 June 2025
Team ID	LTVIP2025TMID35907
Project Name	Sustainable Smart City Assistant using IBM Granite LLM
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., topic, job title)	Enter valid and invalid text in input fields	Valid inputs accepted, errors for invalid inputs	As expected	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	As expected	Pass
FT-03	Content Generation (e.g., blog, resume, design idea)	Provide complete inputs and click "Generate"	Correct content is generated based on input	Content generated accurately	Pass
FT-04	API Connection Check	Check if API key is correct and model responds	API responds successfully	API connected and returned response	Pass
PT-01	Response Time Test	Use a timer to check content generation time	Should be under 3 seconds	2.4 seconds	Pass
PT-02	API Speed Test	Send multiple API calls at the same time	API should not slow down	No noticeable delay	Pass
PT-03	File Upload Load Test (e.g., PDFs)	Upload multiple PDFs and check processing	Should work smoothly without crashing	All files processed successfully	Pass