Functional & Performance Testing Template

Model Performance Test

Date	7 June 2025
Team ID	LTVIP2025TMID60743
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
Maximum Marks	

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., keywords, questions)	Enter both valid and invalid text inputs	Accepts valid input, shows error for invalid		
FT-02	Number Input Validation (e.g., energy units, ratings)	Enter numbers within and outside valid limits	Accepts valid numbers, shows error for wrong ones		
FT-03	Content Generation (e.g., eco-tips, sustainability info)	Enter full input and click "Generate"	Generates relevant content based on input		
FT-04	API Connection Check	Verify model connection using valid/invalid API key	API responds with correct output		
PT-01	Response Time Test	Measure time from input to output	Should generate output in under 3 seconds		
PT-02	API Speed Test	Send several requests quickly	System should handle them without delay		
PT-03	File Upload Load Test (e.g., city data PDFs)	Upload many files at once	Should process without crashing		