

Functional & Performance Testing Template

Model Performance Test

Date	21 February 2025
Team ID	LTVIP2025TMID29266
Project Name	Sustainable Smart City Assistant using IBM Granite LLM
Maximum Marks	

Test Scenarios & Results

Test Case ID	Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
FT-01	Text Input Validation	Enter valid and invalid prompts into the Gradio UI	Valid prompts accepted; invalid ones give clear errors	Validated correctly, errors shown for invalid entries	Pass
FT-02	Prompt Format Handling	Enter short, long, and malformed prompts	Model handles gracefully or gives feedback	Managed well, LLM responded or asked for clarification	Pass
FT-03	Policy Summarization Generation	Input a government policy PDF/text and click summarize	Accurate and concise summary returned	Summaries matched expected key points	Pass
FT-04	API Connection Check	Trigger backend calls to IBM Granite LLM API	Successful response received from LLM	Connected and responded within limits	Pass

PT-01	Response Time Test	Use stopwatch to measure summary generation time	Under 3 seconds	~2.7 seconds on average	Pass
PT-02	API Load Handling	Send 3-5 rapid inputs in sequence	No slowdown or timeout in responses	No lag observed , handled well	Pass
PT-03	Multiple Feature Usage	Use chatbot + summarizer + eco tips in one session	Smooth multitasking, no crash or error	Worked seamlessly during demo	Pass