Functional & Performance Testing

Model Performance Test

Date	22 June 2025
Team ID	LTVIP2025TMID31087
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
Maximum Marks	

Test Scenarios & Results:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
FT-01	Text Input Validation (e.g., item, habits, issue)	Enter valid and invalid text into input fields	Valid inputs accepted; errors shown for invalid ones	Input fields validated correctly	Pass
FT-02	File Upload Validation (CSV files)	Upload supported and unsupported file types	Accepts CSV files; rejects others with error message	Error messages for unsupported files	Pass
FT-03	AI Response Generation	Enter prompts (eco tips, summaries, etc.) and observe responses	Relevant, meaningful AI-generated output	Contextaware output from model	Pass
FT-04	Feedback Logging Function	Submit feedback through the UI and check if it is saved in Excel	Entry logged with timestamp and category	Excel file created and updated	Pass

PT-01	Response Time Test	Use a timer to measure output generation time	Output should be generated in under 3 seconds	Avg. response time = 2.4 seconds	Pass
PT-02	Concurrent Input Load Test	Simultaneously submit multiple inputs	All inputs handled smoothly	No lag or crash observed	Pass
			without system hang		
PT-03	Load Test for Large CSV Files	Upload large CSVs with utility usage data	File should upload and process without crashing	Smooth handling of large data	Pass