# Functional & Performance Testing Template

## Model Performance Test

Date: 26 June 2025

Team ID: LTVIP2025TMID32032

Project Name: Sustainable Smart City Assistant Using IBM Granite LLM

Maximum Marks: 2 Marks

## Test Scenarios & Results

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| Test Case ID | Scenario (What to test) | Test Steps (How to test) | Expected Result | Actual Result | Pass/Fail |
| FT-01 | Policy Document Upload | Upload correct and corrupted city policy documents (.txt, .csv) | Valid files parsed; errors shown for invalid files | System extracted valid text, rejected invalid files | Pass |
| FT-02 | Policy Summarization | Upload policy documents and trigger summarization | Accurate summary generated using IBM Granite LLM | Summary generated successfully | Pass |
| FT-03 | Eco Tips Generator | Enter topic keywords (e.g., "Plastic", "Solar") | Returns relevant eco-friendly tips using Granite LLM | Relevant eco tips generated based on keywords | Pass |
| FT-04 | Chat Assistant AI Connection | Provide chat prompt related to sustainability | AI response generated within 4 seconds using Granite-13b-instruct | AI-generated response delivered within 3 seconds | Pass |
| PT-01 | KPI Forecasting Response Time | Upload KPI dataset and record time for forecast output | Forecast output generated within 5 seconds | Avg. time observed: 3.8 seconds | Pass |
| PT-02 | Concurrent User Test | Multiple users submit feedback and interact with assistant simultaneously | Application handles requests without crashing or delay | Zero crashes; system handled concurrent requests efficiently | Pass |