# **Functional & Performance Testing**

**Model Performance Test**

| Date | 27 June 2025 |
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| Team ID | LTVIP2025TMID32062 |
| 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 |

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