# **Functional & Performance Testing Template**

**Model Performance Test**

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

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| **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 |  |  |