**Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 16 jun 2025 |
| Team ID | LTVIP2025TMID32673 |
| Project Name | Sustainable Smart City Assistant AI by using IBM granite LLM |
| Maximum 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** | Text Input Validation (e.g., topic, job title) | Enter valid and invalid text in input fields | Valid inputs accepted, errors for invalid inputs | Valid inputs accepted, errors for invalid | 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 | Accepts valid values, error for invalid | Pass |
| **FT-03** | Content Generation (e.g., blog, resume, design idea) | Provide complete inputs and click "Generate" | Correct content is generated based on input | Correct sustainability suggestions are shown | Pass |
| **FT-04** | Colab Connection Check | Check if ngork link is correct and model responds | /chat responds successfully | connects successfully with valid key | Pass |
| **PT-01** | Response Time Test | Use a timer to check content generation time | Should be under 3 seconds | Average response time 2.5 seconds | Pass |
| **PT-02** | Speed Test | Send multiple calls at the same time | stable,should not slow down | Consistent performance across requests | Pass |
| **PT-03** | File Upload Load Test (e.g., PDFs) | Upload multiple PDFs and check processing | Should work smoothly without crashing | Handled up to 50 files without lag | Pass |