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**Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 13/06/2025 |
| Team ID | LTVIP2025TMID31478 |
| Project Name | SUSTAINABLE SMART CITY ASSISTANT USING IBM GRANITE LLM |

**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; invalid inputs show error message** | **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** | **Correct behavior observed for both valid and invalid ranges** | **pass** |
| **FT-03** | **Content Generation (e.g., blog, resume, design idea)** | **Provide complete inputs and click "Generate"** | **Correct content is generated based on input** | **Generated content is relevant and matches input data** | **pass** |
| **FT-04** | **API Connection Check** | **Check if API key is correct and model responds** | **API responds successfully** | **API response received successfully with correct output** | **pass** |
| **PT-01** | **Response Time Test** | **Use a timer to check content generation time** | **Should be under 3 seconds** | **Average response time was 2.4 seconds** | **pass** |
| **PT-02** | **API Speed Test** | **Send multiple API calls at the same time** | **API should not slow down** | **Handled concurrent requests without noticeable delay** | **pass** |
| **PT-03** | **File Upload Load Test (e.g., PDFs)** | **Upload multiple PDFs and check processing** | **Should work smoothly without crashing** | |  | | --- | | **PDFs uploaded and processed without issues** |  |  | | --- | | **Pass** | | **pass** |