# **Functional & Performance Testing Template**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 21 February 2025 |
| Team ID | LTVIP2025TMID60012 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| Maximum Marks | 4 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 | Valid text inputs (symptoms, conditions) accepted; errors shown for empty or irrelevant fields. | 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 | Accepted values within allowed ranges (e.g., age, BP levels); out-of-range inputs flagged with error. | Pass |
| **FT-03** | Content Generation (e.g., blog, resume, design idea) | Provide complete inputs and click "Generate" | Correct content is generated based on input | Health content and treatment plans generated accurately based on inputs. | Pass |
| **FT-04** | API Connection Check | Check if API key is correct and model responds | API responds successfully | API key validation successful; Watson model responded correctly. | Pass |
| **PT-01** | Response Time Test | Use a timer to check content generation time | Should be under 3 seconds | Average response time: 2.1 seconds. | Pass |
| **PT-02** | API Speed Test | Send multiple API calls at the same time | API should not slow down | Handled multiple API requests (up to 20 concurrent) with minimal latency. | Pass |
| **PT-03** | File Upload Load Test (e.g., PDFs) | Upload multiple PDFs and check processing | Should work smoothly without crashing | Multiple PDF uploads tested (3-5 files); processed correctly without issues. | Pass |