# **Functional & Performance Testing**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID30148 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |

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 inputs accepted, error messages shown 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** | **Valid values accepted, error shown for values out of range** | **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 correctly as per input** | **Pass** |
| **FT-04** | **API Connection Check** | **Check if API key is correct and model responds** | **API responds successfully** | **API response received with status code 200** | **Pass** |
| **PT-01** | **Response Time Test** | **Use a timer to check content generation time** | **Should be under 3 seconds** | **Average response time: 2.4 seconds** | **Pass** |
| **PT-02** | **API Speed Test** | **Send multiple API calls at the same time** | **API should not slow down** | **All responses under 3.5 seconds** | **Pass** |
| **PT-03** | **File Upload Load Test (e.g., PDFs)** | **Upload multiple PDFs and check processing** | **Should work smoothly without crashing** | **5 PDFs processed successfully without crash** | **Pass** |