# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 21 February 2025 |
| Team ID | LTVIP2025TMID32102 |
| Project Name | SmartzSDLC – AI-Enhanced Software Development Lifecycle |
| 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 | Enter both valid (textual) and invalid (non-textual or empty) prompts | Valid prompts accepted, invalid prompts rejected | As expected | Pass |
| **FT-02** | Number Input Validation) | Enter various inputs for length control (e.g., “Max words = 100”) | Accepts values within limits, error messages for invalid ones | Working correctly | Pass |
| **FT-03** | Content Generation -Code | Enter a valid prompt like “create a calculator in Python” and click Generate | AI generates appropriate code | Output correct | Pass |
| **FT-04** | API Connection Check | Check connection to IBM Watsonx & LangChain | Successful connection & response | Connection stable | Pass |
| **PT-01** | Response Time Test | Time code generation after submitting a prompt | Response within 3 seconds | Avg. 2.7 seconds | Pass |
| **PT-02** | API Speed Test | Submit multiple requests in parallel (e.g., using browser tabs) | API remains responsive without major delay | Slight delay at 5+ requests | Need refinement |
| **PT-03** | File Upload Load Test (e.g., PDFs) | Upload 3–5 PDFs with different structures | System should process all without crash | Processed all, slow for >5 MB | Need refinement |