# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID36168 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| 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., symptom description) | 1.Enter valid symptoms (e.g., “fever, cough”).  2. Enter invalid input (emoji, long special characters).  3. Submit. | Valid accepted; invalid shows error message. | Valid: accepted. Emoji input: error displayed. | Pass |
| **FT-02** | |  | | --- | |  | | Number Input Validation (e.g., age, weight) | | 1.Enter numbers within valid range.  2. Enter out-of-range or non-numeric values.  3. Submit. | Valid numbers accepted; invalid shows error message. | 29 accepted, "-5" & "abc" trigger error messages. | Pass |
| **FT-03** | |  | | --- | |  | | Disease Identification Generation | | 1.Enter symptom details.  2. Click “Submit”.  3. View AI-generated diseases and next steps. | Suggests 3 likely diseases with guidance. | ICD-like suggestions with 3 conditions + steps. | Pass |
| **FT-04** | Home Remedy Generation | 1.Input condition (e.g., “flu”).  2. Click “Get Remedies”.  3. View output. | Returns 3–5 relevant home remedies with instructions. | 4 remedies with clear instructions provided. | Pass |
| **FT-05** | Wellness Advice Generation | 1.Input age, gender, lifestyle.  2. Click “Get Advice”.  3. Review generated tips. | Outputs 3–5 personalized wellness tips. | 5 actionable tips related to exercise and diet. | Pass |
| **FT-06** | Reminder Creation & Display | 1.Input reminder title & date/time.  2. Click “Add Reminder”.  3. Click “Show All Reminders”. | Newly added reminder displayed in the list. | Reminder added and listed correctly. | Pass |
| **FT-07** | API Connection & Key Validation | 1.Launch app with valid/invalid HF token.  2. Trigger model generation.  3. Observe response. | Valid token ➝ successful; invalid ➝ error message. | Valid: works. Invalid: shows clear error pop-up. | Pass |
| **PT-01** | Response Time Test | 1.Click "Generate" (any tab).  2. Measure time to display results. | Completion 3 seconds. | Avg. 2.5s across 10 tests. |  |
| **PT-02** | API Speed Test / Concurrency | 1.Simultaneously trigger 5–10 generate calls.  2. Monitor API throughput. | Handles concurrent calls without degradation. | |  | | --- | |  | | 10 calls simultaneously: avg. 3s; < 5s limit. | | Pass |
| **PT-03** | |  | | --- | |  | | File Upload Load Test | | Upload multiple PDFs and check processing | Should work smoothly without crashing | All processed within 6s each; no crashes. | Pass |