# **Functional & Performance Testing Template**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID33537 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite Model |
| Maximum 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 (Patient Query, Symptoms, Details) | Enter valid and invalid text inputs in chat and prediction forms | Valid inputs accepted, errors shown for invalid inputs | Valid inputs accepted, invalid inputs correctly rejected with error messages | Pass |
| FT-02 | Number Input Validation (Age, Weight, Word Count Limits) | Enter valid numbers and out-of-range numbers in input fields | Valid numbers accepted, out-of-range values rejected | Valid numbers accepted, invalid numbers correctly rejected with error messages | Pass |
| FT-03 | Patient Chat Response Generation | Enter a patient query and click “Send” | Accurate and relevant response from the Patient Chat System | Patient Chat System generated correct and relevant responses based on input | Pass |
| FT-04 | Disease Prediction Accuracy | Input symptoms and trigger disease prediction | Correct disease(s) predicted based on symptoms provided | Disease Prediction system provided accurate and expected predictions | Pass |
| FT-05 | Treatment Plan Generation | Enter disease details and click “Generate Treatment Plan” | Proper treatment plan generated according to the disease | Treatment Plan generated successfully based on disease input | Pass |
| FT-06 | Health Analytics Dashboard Data Load | Navigate to dashboard, load health statistics | Dashboard loads with correct and updated analytics data | Dashboard displayed updated health analytics correctly | Pass |
| FT-07 | API Connection with IBM Granite Model | Check API key and request/response with the IBM model | API responds successfully and generates appropriate outputs | API connection with IBM Granite Model was successful and responses were accurate | Pass |
| PT-01 | Chat Response Time Performance | Measure the time for chat response after patient submits query | Should respond within 3 seconds | Chat response time was consistently under 3 seconds | Pass |
| PT-02 | Concurrent API Request Performance | Send multiple API requests simultaneously to backend | API should handle load without significant delay | API handled multiple simultaneous requests without delay | Pass |
| PT-03 | File Upload Load Test (If PDFs or files are uploaded) | Upload multiple PDFs/files and monitor system stability | System should handle file uploads smoothly without crashing | File uploads processed smoothly without system crash or delay | Pass |