

Functional & Performance Testing Template

Model Performance Test

Date	19/05/2025 – 30/06/2025
Team ID	LTVIP2025TMID31711
Project Name	HealthAI: Intelligent Healthcare Assistant Using IBM Granite
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 (e.g., symptoms)	Enter valid symptoms like “fever and rash” and invalid ones like numbers or blank text	Valid inputs accepted, invalid inputs prompt warnings	Valid inputs accepted, invalid inputs cleared with error	✓ Pass
FT-02	Number Input Validation (e.g., height, weight)	Enter values in and outside valid range (e.g., negative or blank height/weight)	Accepts correct values, shows errors for invalid inputs	Accepts valid numbers, rejects invalid ones with alerts	✓ Pass
FT-03	AI Response Generation	Enter profile and symptoms, then click “Check Symptoms” or “Generate Treatment Plan”	Generates relevant diagnosis and suggestions	Watsonx responded with correct diagnosis and suggestions	✓ Pass
FT-04	API Connection Check	Verify if IBM Watsonx model responds using the correct API key	API responds with AI-generated text	Watsonx model connected and returned results successfully	✓ Pass
PT-01	Response Time Test	Use stopwatch/timer to measure response time from submission to output	Response under 3 seconds	Average response ~2.3 seconds	✓ Pass
PT-02	API Speed Test (Concurrency)	Trigger multiple API calls simultaneously (e.g., 3 users)	Model responds without major delay	Slight delay under load, still within 4 seconds	✓ Pass
PT-03	File Upload Load Test (not used)	Upload multiple PDFs and observe performance (if applicable)	Should not crash or slow down	✗ Not applicable – No file upload feature in HealthAI	N/A