Functional & Performance Testing Template

Model Performance Test

Date	21 February 2025
Team ID	LTVIP2025TMID29410
Project Name	Smart SDLC using Generative AI on IBM Cloud
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., topic, job title)	Enter valid and invalid text in input fields	Valid inputs accepted, errors for invalid inputs	Valid inputs accepted; Invalid inputs display contextual error like "Please enter valid module name"	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	System accepts 100–1000 word limits; shows error for <50 or >5000	Pass
FT-03	Content Generation (e.g., blog, resume, design idea)	Provide complete inputs and click "Generate"	Correct content is generated based on input	Generated test cases and code match the provided SDLC context	Pass
FT-04	API Connection Check	Check if API key is correct and model responds	API responds successfully	API key verified; status 200 received with response in <2s	Pass
PT-01	Response Time Test	Use a timer to check content generation time	Should be under 3 seconds	Avg response time = 2.3s	Pass
PT-02	API Speed Test	Send multiple API calls at the same time	API should not slow down	10 parallel calls handled, no timeout, consistent speed	Pass

| PT-03 | File Upload Load Test (e.g., PDFs) | Upload multiple PDFs and check processing | Should work smoothly without crashing | 10 files uploaded in <8s; no UI lag or backend crash | Pass |