

Functional & Performance Testing Template

Model Performance Test

Date	18 February 2026
Team ID	LTVIP2026TMIDS66241
Project Name	Civil Engineering Insight studio
Maximum Marks	3 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	Enter valid and invalid text in description field	Valid text accepted, system handles empty input properly	System accepts valid text and handles empty input without error	Pass
FT-02	Image Format Validation	Upload JPG, PNG and unsupported file types	JPG/PNG accepted, unsupported formats rejected	Only valid formats accepted	Pass
FT-03	Image-Based Structure Analysis	Upload image and click “Describe Structure”	AI generates structured civil engineering analysis	Structured analysis generated correctly	Pass
FT-04	API Connection Check	Run system with valid API key	Gemini API responds successfully and generates output	API response received successfully	Pass
PT-01	Response Time Test	Measure time taken to generate output after clicking button	Response generated within acceptable time (3–5 seconds)	Average response time	Pass

				within limit	
PT-02	Multiple Request Test	Send multiple image analysis requests sequentially	System handles multiple requests without failure	System stable under repeated requests	Pass
PT-03	Image Upload Load Test	Upload large-size images and test processing	Upload multiple PDFs and check processing	Should work smoothly without crashing	Pass