Functional & Performance Testing Template

Model Performance Test

Date	17 February 2026
Team ID	LTVIP2026TMIDS78778
Project Name	Gemini Historical Artifact Description System
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 (Artifact Name)	Enter valid artifact names and invalid inputs (empty, special characters only)	Valid inputs accepted, error message for invalid/empty inputs	System accepted valid names and showed validation message for invalid inputs	Pass
FT-02	Number Input Validation (Word Count)	Enter numbers within range (100–1000) and outside range (negative, very high)	Accept valid values, show error for out-of-range values	System restricted invalid values and accepted valid range	Pass
FT-03	Content Generation	Provide artifact name and word count, click "Generate"	Correct structured description generated based on input	Description generated with sections (Origin, Period, Significance, Facts)	Pass
FT-04	API Connection Check	Verify API key and trigger generation request	API responds successfully and returns AI-generated output	API responded successfully without errors	Pass
FT-05	Image Upload Validation	Upload valid image (JPG/PNG) and invalid file type	Accept valid image formats, reject unsupported files	Valid images processed, unsupported formats rejected	Pass
FT-06	Regenerate Function	Click regenerate button after first output	New AI-generated response should be displayed	New variation of description generated	Pass

Performance Testing

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
PT-01	Response Time Test	Measure time taken after clicking "Generate"	Response time should be under 3 seconds	Average response time: 2.4 seconds	Pass

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
PT-02	API Speed Test	Send multiple API requests simultaneously	API should respond without major delay or failure	Minor delay observed but no failure	Pass
PT-03	File Upload Load Test	Upload multiple images one after another	System should process without crashing	Images processed smoothly	Pass
PT-04	Concurrent Users Test	Simulate multiple users accessing system	System should remain stable	System handled concurrent requests without crash	Pass
PT-05	Stress Test	Provide large word count (1000+) repeatedly	System should respond without breakdown	Performance slightly slower but stable	Pass