

## Functional & Performance Testing

### Model Performance Test

Date	21 February 2026
Team ID	LTVIP2026TMIDS88360
Project Name	Civil Engineering Insight Studio
Maximum Marks	

#### Test Scenarios & Results

Test ID	Scenario	Test Steps	Expected Result	Actual Result	Status
FT-01	Context Validation	Enter text and select "Academic" or "Business" toggles.	System applies correct contextual tone.	Context applied successfully.	Pass
FT-02	Limit Validation	Enter text exceeding the maximum Gemini API token limit.	System prompts the user to shorten the text.	Warning message displayed.	Pass
FT-03	LaTeX Integrity	Upload a document with LaTeX formulas and translate.	Content is translated; formulas remain intact.	Formulas remain unchanged.	Pass
FT-	API	Verify Gemini 1.5	API responds	Connection	Pass

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O4	Connectivity	Pro API key is valid and reachable.	with status code 200.	established.	
PT-O1	Response Speed	Measure duration from "Translate" click to output.	Standard text renders in under 3 seconds.	2.4s average.	Pass
PT-O2	Concurrent Load	Send multiple simultaneous translation requests.	System processes without significant latency.	No significant lag.	Pass
PT-O3	PDF Load Test	Upload multiple heavy research PDFs simultaneously.	Streamlit app processes without crashing.	Handled 5 files at once.	Pass