

Project Design Phase
Proposed Solution

Date	15 February 2026
Team ID	LTVIP2026TMIDS88360
Project Name	TCivil Engineering Insight Studio
Maximum Marks	2 Marks

Proposed Solution :

Project team shall fill the following information in the proposed solution table.

S.No.	Parameter	Description
1.	Problem Statement	Traditional tools lack contextual awareness, leading to "robotic" outputs that fail businesses, researchers, and travelers. Specialized jargon and brand voices are often lost, causing user anxiety.
2.	Idea / Solution	TransLingua is a Streamlit web app powered by Google's Gemini AI. It offers context-aware toggles (Professional, Academic, Travel) to adapt tone and vocabulary to specific scenarios.
3.	Novelty / Uniqueness	Utilizes contextual intelligence to preserve academic citations and brand identities. Features a Scenario-Based UI, such as high-contrast mobile views for travelers or split-screen views for researchers.
4.	Social Impact	Enhances global collaboration for academics and helps businesses expand with confidence. Reduces traveler anxiety with reliable, instant translations for navigation.
5.	Business Model	Freemium Model: Basic translation is free; the "Pro" tier offers document uploads (PDF/LaTeX), unlimited professional modes, and enterprise API

S.No.	Parameter	Description
		access.
6.	Scalability	Uses a 3-tier micro-services approach hosted on cloud platforms like GCP/AWS to handle large-scale document processing and concurrent users.