Project Design Phase
Proposed Solution

Date	18 February 2026
Team ID	LTVIP2026TMIDS65753
Project Name	TransLingua – AI-Powered Multi-Language Translator
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Many individuals face communication difficulties due to language barriers. Existing translation tools may be slow, inaccurate, or complex to use.
2	Idea / Solution Description	Develop a web-based AI-powered language translation application using Streamlit and Google Gemini Generative AI to provide fast and accurate translations.
3	Novelty / Uniqueness	Integration of Generative AI for real-time translation with a lightweight and user-friendly web interface. Secure API key management is implemented.
4	Social Impact / Customer Satisfaction	Helps students, professionals, and travelers communicate effectively, improving accessibility and reducing language-based barriers.
5	Business Model (Revenue Model)	Freemium model – Free basic translation with potential premium features such as advanced language support or API access.
6	Scalability of the Solution	The system can be expanded to support more languages, voice translation, cloud deployment, and mobile applications.