

# Project Design – Proposed Solution

**Team ID:** LTVIP2026TMIDS84504

**Project Name:** TransLingua: AI-Powered Multi-Language Translator

**Maximum Marks:** 2 Marks

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## 1. Problem Statement

How can we simplify and speed up translation between multiple languages with high accuracy using artificial intelligence?

Traditional translation methods are slow, require skilled translators, and often lack consistency, leading to communication barriers and misunderstandings.

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## 2. Idea / Solution Description

**TransLingua** is an AI-powered web-based translation system that allows users to enter text, automatically detect the source language, and translate it into a selected target language in real time.

The system uses advanced AI translation models with a simple and user-friendly interface to deliver fast and accurate results.

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## 3. Novelty / Uniqueness

- Automatic language detection
  - AI-based context-aware translation
  - Lightweight and easy-to-use web application
  - Supports future language expansion
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## 4. Social Impact / Customer Satisfaction

TransLingua reduces language barriers and promotes inclusive communication.

It supports education, global collaboration, and access to information while improving communication efficiency and user satisfaction.

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## 5. Business Model (Revenue Model)

- Free version for students and personal use
- Subscription or licensing for advanced features
- API access and enterprise integration services

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## **6. Scalability of the Solution**

The system can scale from local deployment to cloud hosting.

It supports adding new languages, improving AI models, and integrating with third-party platforms for future growth.