

Home Task: Multilingual Translator with Auto-Detection

Objective

Build a web application that uses an LLM (or a translation API) to **detect the language of the input automatically** and provide translations into multiple target languages.

Base Requirements

- **Tech Stack**

1. Frontend: ReactJS (or similar)
2. Backend: Python (FastAPI), Node.js, Java or .NET

- **Functionality**

1. User pastes or types text in *any language*.
2. Backend detects the source language (via LLM or language-detection library).
3. Provide translations into at least 3 target languages (e.g., English, Spanish, French).
4. Display original + translations in a clean UI.
5. Allow user to **copy translation** with one click.

Bonus (Recommended) Features

- **Dynamic Target Selection:** User can select which languages they want to see.
- **Tone Control:** Let the user pick a tone for translations (formal / informal).
- **Streaming Output:** Show translations progressively as they arrive.
- **Pronunciation Aid:** Add an option to read aloud translations (using TTS API).
- **Caching:** If the same text is translated again, serve result from cache.




Example

Input (German):

Guten Morgen, wie geht es dir?

Detected Language: German 

Translations:

- English : *Good morning, how are you?*
- Spanish : *Buenos días, ¿cómo estás?*
- French : *Bonjour, comment ça va ?*

Submission Guidelines

- GitHub repo or downloadable archive.
- README with:
 - Setup/run instructions.
 - How language detection + translation are implemented.
 - Any caching/streaming strategy used.

Este ejercicio evalúa:

- **Procesamiento multilingüe.**
- **Integración con APIs externas.**
- **UX internacionalizada.**