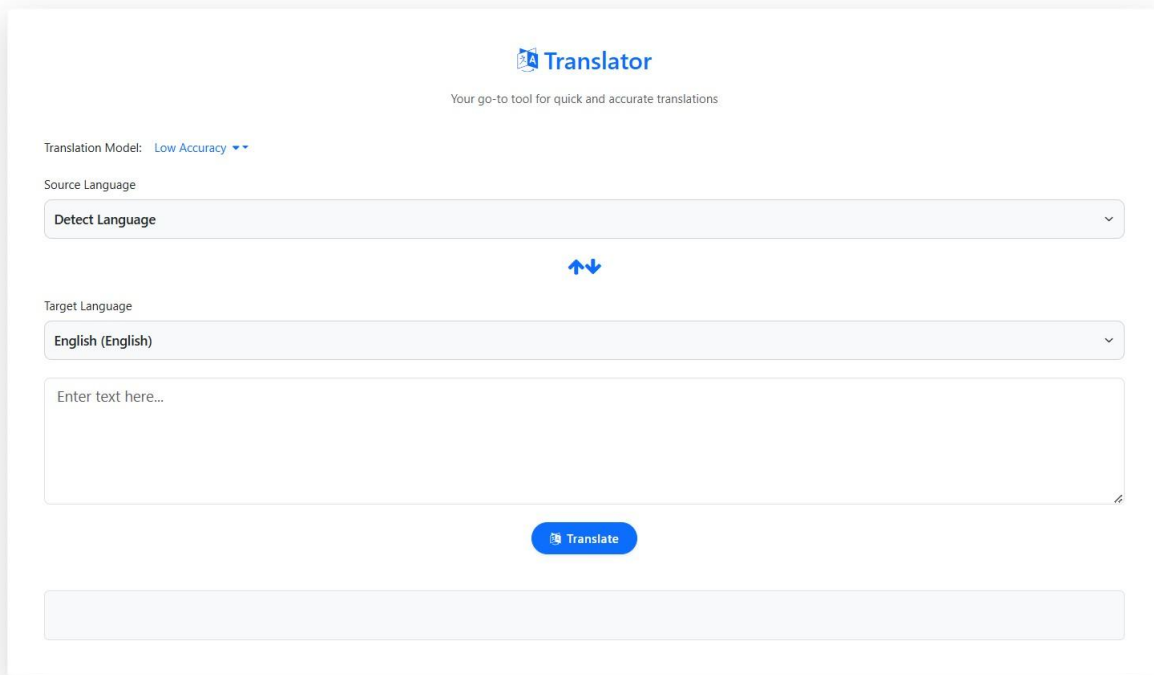# Translation App

Welcome to the Translation App! This application allows users to translate text between different languages using powerful translation APIs like Deepl API (high-accuracy) and MyMemory API (lower-accuracy). It features a clean, responsive design with easy language selection and error handling for seamless user experience.

Features

Text Translation: Easily translate text from one language to another.

- Deepl API - for high-accuracy translations.
- MyMemory API - for lower-accuracy translations.

Language Selection: Choose source and target languages from a user-friendly dropdown list.

RTL Language Support: Detects and adjusts text direction for right-to-left (RTL) languages such as Arabic and Hebrew.

Responsive Design: Fully optimized for use on various devices and screen sizes.

Error Handling: Provides error messages for invalid inputs or failed API requests.

Clean & Modern UI: Built using React.js and styled with Tailwind CSS for a responsive and visually appealing interface.

Technologies Used

- Frontend: React.js
- Styling: Tailwind CSS
- APIs: Deepl API for high-accuracy translations

  MyMemory API for lower-accuracy translations

- Proxy Service: CORS Anywhere https://cors-anywhere.herokuapp.com/ (for Deepl API requests) https://cors-anywhere.herokuapp.com/corsdemo

Live Demo

You can access the live demo of the app here:
Live Demo

Usage in This Application

In this application, I am using the **Deepl API (free version)**, which causes the CORS issue. However, by requesting temporary access through the CORS Anywhere demo page, you can use this application without encountering any issues.

Important Notes:

- Keep in mind that **CORS Anywhere's free tier has limitations**. If you experience any interruptions or issues, it's due to these restrictions.

- For a more stable experience, consider using Deepl's paid API or setting up your own proxy server.

- This CORS issue only affects the **high-accuracy model** (Deepl API), as it requires proxy access to bypass CORS.

- The **low-accuracy model** (MyMemory API) does not have a CORS issue, but it is **less reliable** in terms of transaction accuracy and has frequent issues with translations.

- To improve translation quality and accuracy, I have integrated **Deepl API** for high-accuracy translations, which has a daily limit of **500,000 words**.

This setup ensures a balance between reliable translations (Deepl) and reduced API traffic (MyMemory).

Github link: https://github.com/Dinukaawsh/translator

All you have to do is,

To resolve the **CORS issue** in the Translation App, follow these steps:

1. Visit https://cors-anywhere.herokuapp.com/corsdemo.

2. Click the button **"Request temporary access to the demo server"**.

3. A message will appear saying: **"You currently have temporary access to the demo server."** This grants you temporary access to bypass CORS restrictions.

Once you've done this, you can proceed to the Translation App and use it without any issues.

Here is explanation of CORS Issues and Proxy Usage for Deepl API

When using the **Deepl API** in the app, you may encounter **CORS (Cross-Origin Resource Sharing)** issues due to restrictions on making API requests directly from the frontend to the Deepl server. To overcome this, we use a **CORS proxy**.

What is CORS?

CORS is a security feature in browsers that prevents cross-origin requests from untrusted sources. Since the Deepl API does not allow requests from unapproved domains, your app may face CORS errors when trying to access Deepl from the frontend.

CORS Anywhere Limitations

To handle CORS issues, we use the **CORS Anywhere** proxy service. It offers temporary access for free, but there are some important limitations you should be aware of:

- **Temporary Access**: Access to the CORS Anywhere proxy is not permanent. You need to visit the [CORS Anywhere demo page](#) and request temporary access each time you first use it or if your session expires. You may also need to do this when using the application from a new device.

- **Rate Limits**: The free tier of CORS Anywhere is rate-limited and may not be suitable for production apps, especially with high traffic or frequent requests. This can lead to slower response times or temporary unavailability.

- **Security Concerns**: Relying on a third-party proxy service like CORS Anywhere may expose your app to potential security risks, and the proxy service could experience downtime or limitations.

Better Alternatives

- **Own Proxy Server**: A more reliable solution is to set up your own proxy server or backend to handle Deepl API requests. This eliminates the need to rely on third-party services and gives you full control over the requests.

- **Deepl Paid API**: Deepl's paid API offers a more stable, secure, and reliable way to access their translation services without encountering CORS issues.