Code Sappire

REAL TIME LANGUAGE TRANSLATION FOR VIDEO CALLS

OUR TEAM :

SHAISHAV SURATI
DITI PATEL
KAVYA KOTHARI
AADITYA CHAMPANERI
ZAKARIYA MANSURI
SMIT SOLANKI

PROBLEM STATEMENT

If there are problems with a language barrier there communicate with another person. If I want to share with another country, then I can’t understand their local language.

TECHNOLOGIES USED:

Eleven Labs Whisper

Speech recognition and translation model for real time language translation

Eleven Labs Voice AI

Generates natural and life like voice that speaks out translated text almost simultaneously

EXISTING TECHNOLOGIES AND THEIR LIMITATIONS :

Skype Translator

Less accurate due to complex accents => miscommunication

Google meet's live caption

Used only for live captions , not accurate for complex language translation

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Zoom language Interpretation

Limited availability & higher cost.

Unique Selling Proposition

- Unlike existing technologies that focus on text based translation
- We will provide natural life like voice translations for effective & interactive communication

How will we build?

- Develop environment + frameworks, libraries
- Integrate whisper's speech recognition
- Implement video call functionality
- Use Voice AI to generate voice output for translated text and play it
- Test our application to ensure accuracy
- Optimize app's performance and user experience
- Deploy the app on server / cloud platform

REAL LIFE USE CASES

Multilingual Business Meetings

Language Exchange Programs

Virtual Language Education

Cross cultural Collaboration

Global Customer Support Teams.

International Virtual Events

Market Size

The market for real-time language translation for video calls is expected to grow significantly in the coming years. The global video conferencing market is projected to reach $19.1 billion by 2027, and the language translation software market is projected to reach $44.8 billion by 2031. The combination of these two trends is creating a strong demand for real-time language translation for video calls. The key factors driving the growth of this market include the increasing globalization of businesses, the rise of remote work, and the development of new technologies such as artificial intelligence and machine learning. The market for real-time language translation for video calls is still in its early stages, but it is expected to grow rapidly in the coming years. Some of the key players in this market include Google Translate, Microsoft Translator, and iTranslate

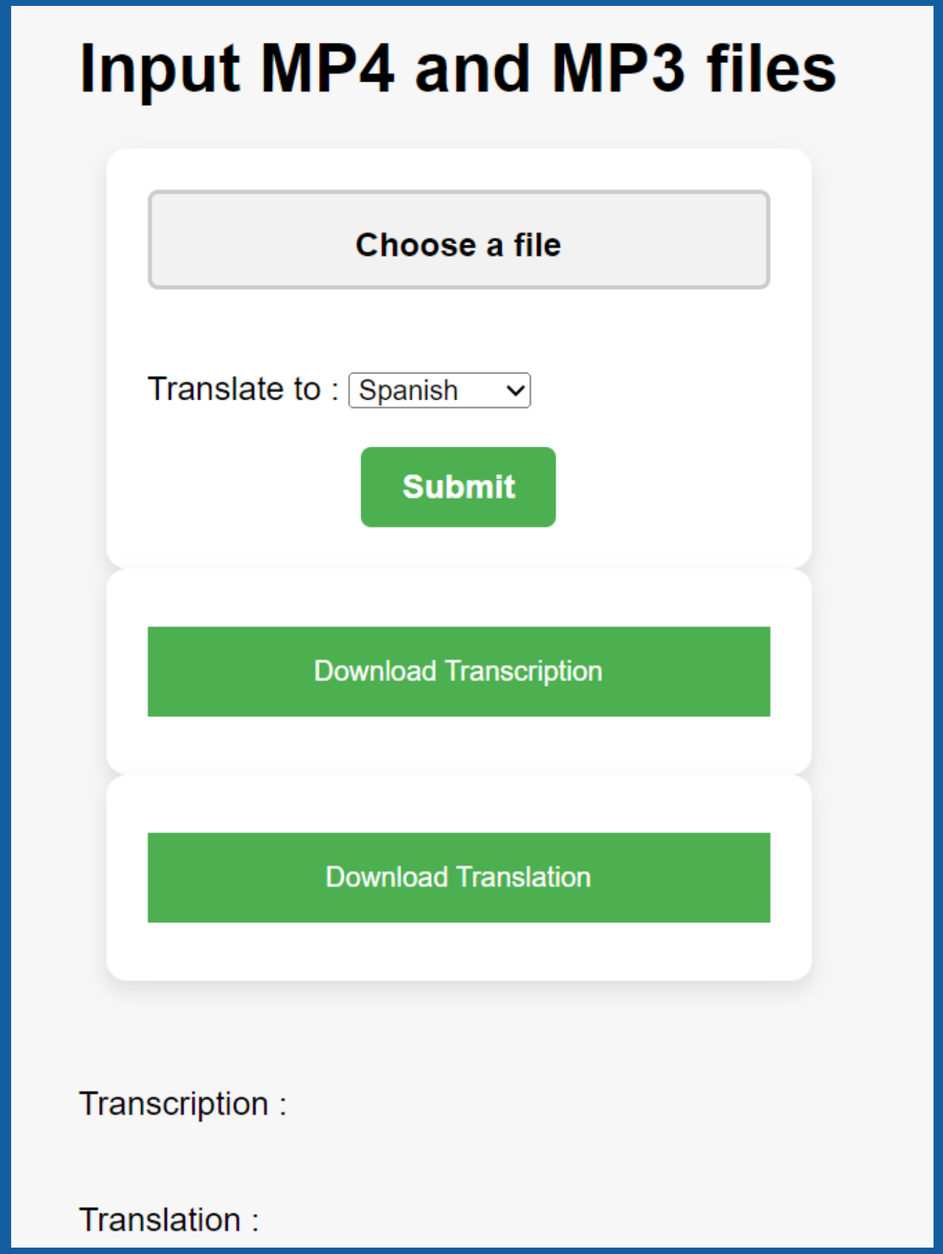
Revenue Model

Real-time language translation services can generate revenue through different methods:

1. Subscription fees: This is the most common way these services earn money. Users pay a regular fee (monthly or yearly) to access and use the translation service.
2. Per-minute fees: Some services charge users based on the time they spend using the translation service. They pay a fee for each minute they utilize the service, often determined by the number of words translated.
3. Freemium model: This approach offers a basic version of the service for free, but with limited features. Users can then opt for a premium version that offers more advanced features or additional language support, for which they need to pay.
4. Advertising: While less common, some services may incorporate advertising as a revenue stream. Businesses with a substantial user base may opt to show advertisements within the service to generate income.
5. Integration fees: As real-time language translation services are integrated with other software applications, businesses may be charged a fee to enable this integration with their existing systems.

NEXT PLAN:

The current stage is that we can translate script based on the next plan is real-time integration and works with Google meet, Zoom, MSTeams, and other video-based applications.


Input MP4 and MP3 files
Choose a file
Translate to : Spanish
Submit
Download Transcription
Download Translation
Transcription :
Translation :

Demo

Choose a file

Translate to : Spanish

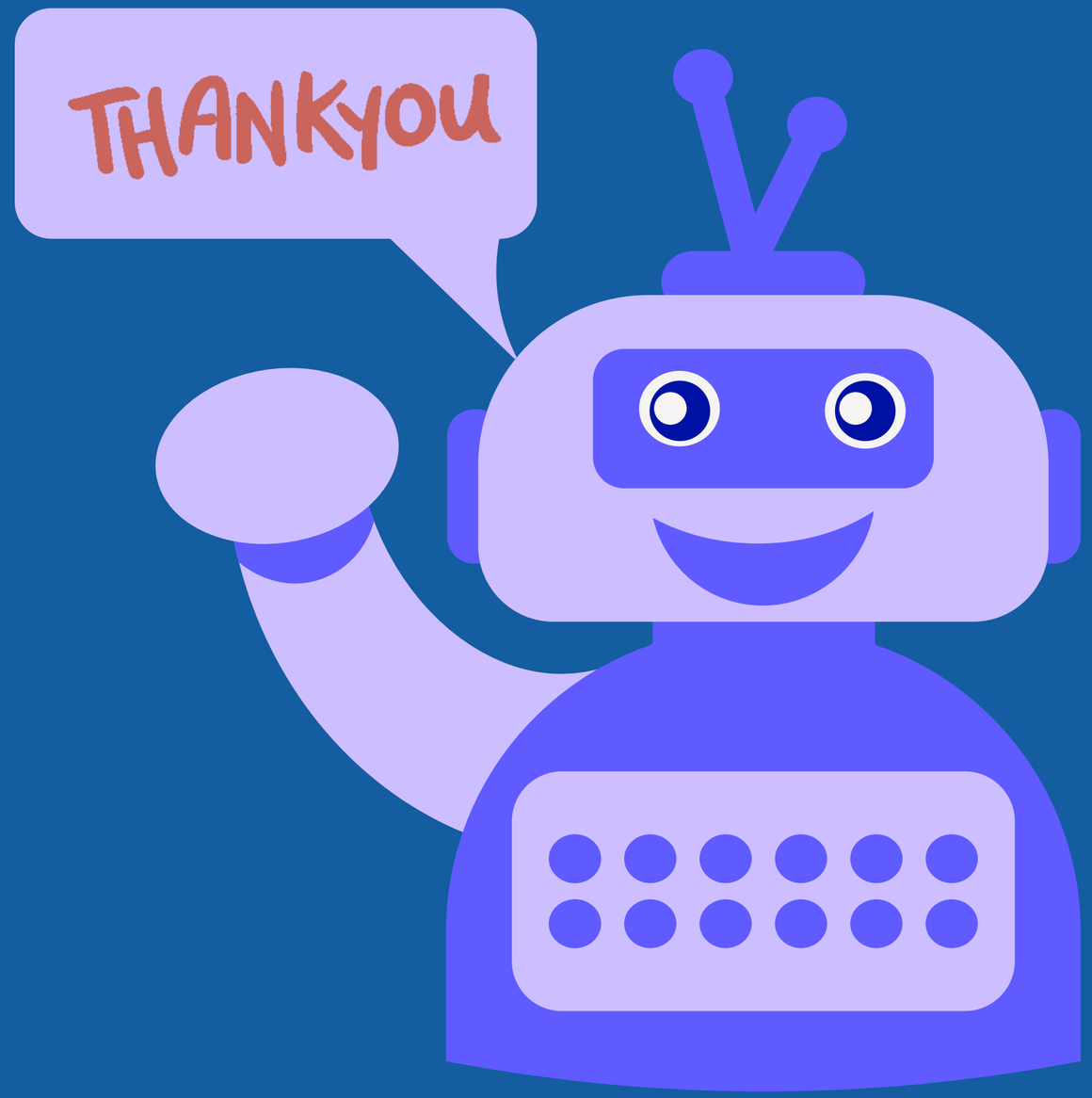
Submit

Download Transcription

Download Translation

Transcription : they still smell of old buildings it takes he to bring out the order I call Deep research help in just a solved paper please find with him because my ood is be hard cross bun

Translation : वे अभी भी पुरानी इमारतों की बदबू आ रही है..... उसे बाहर लाने के लिए..... मैं सिर्फ एक खाली कागज में गहरी अनुसंधान मदद कहते हैं...


THANKYOU