Language Translator using Google Translate APIs in Python

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Language Translator

Translation is the process of conveying a written source language text clearly, completely, accurately, and appropriately in a target language. Translation allows information to be transferred across languages, expanding accessibility of the information. The translation process involves translation, editing, and proofreading. Translation is an activity, a product, and a process. As an activity, translation is a complex act that requires close reading of a text in the source language, understanding its meaning, and creating an equivalent text in the target language. The word 'translation' also refers to the product of this activity: the final target language text that will be published or distributed.

Objectives

The goal of translation practice for non-specialists is to find the language skills of the learner, to refine their thematic and cultural knowledge and to encourage them to think and to react.

- Develop a system which is able to convert the languages.
- Provide an easy and simple tool for translation.
- Endow good experience to the user.
- Translate almost every language.
- A system that supports output as text as well as speech.

Why Translation is necessary?

Better Understanding

When you live in other country you face a lot of difficulties mainly because of language. You need them to be translated for a better understanding.

Cultural Interchange

Music, iterature, films, and various other art forms transcend global boundaries because of the way they are effectively translated to reflect local languages and sentiments

Studies

More often whenever a student studies he/she finds some difficult words which are supposed to be translated to his/her native language.

Business Deals

While dealing with the people of other countries we needs to talk to them in their language

Background of Study

Translation is one of simple and effective ways to understand another language easily. In order to understand the message from another text accurately, a translator should have knowledge both source and target language. Therefore, a deep understanding of translation will help in doing a good translation text. The translator translates not only the scientific, the technology books but also literary work. Those translation of technology, scientific and literary books prove that translation is growing more and more, and hopefully that those will be better. It is not easy to translate whether scientific or literary books. It deals with the process of rendering the message and finding the accuracy and equivalent message of Source Language (SL) into Target Language (TL). By enriching vocabulary, a translator hopes he can produce a good translation

Methodology

1 GoogleTrans & Tkinter

Googletrans is a free and unlimited python library that implemented Google Translate API and tkinter is the GUI toolkit.

2 Working

To begin with, we can input options keyword to get the list of languages and their respective code. After inputting the language code, translator will ask you to enter the text that you want to translate Translator will automatically detect the language the user has inputted. And, after that it will show you the translation of the text into that language and its speech. In order to exit the program we have to click clear in the terminal and we will exit the program sucessfully.

Modes of Language translation

Step 1: Writing

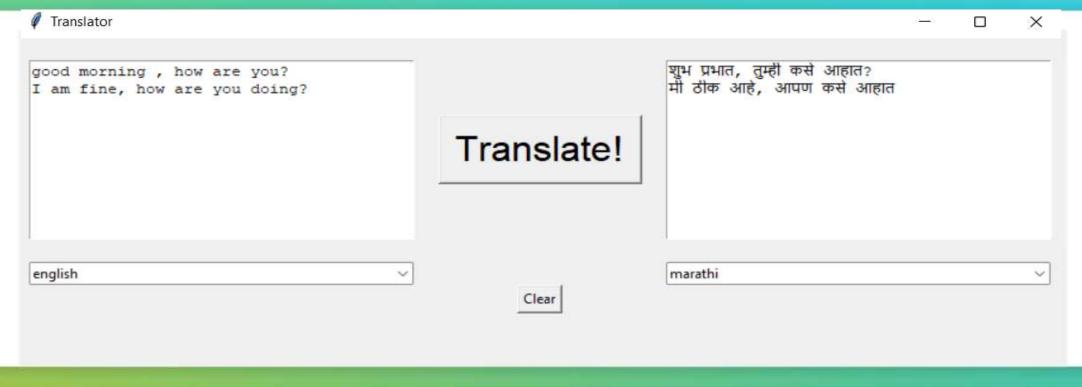First you will need to write the text you wanna to translate
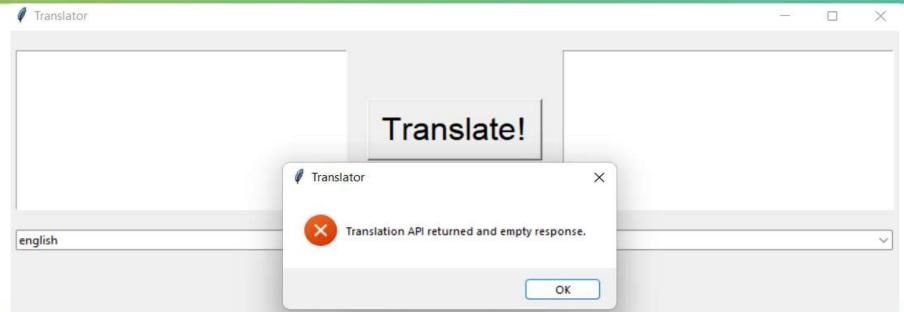

Step 2: Processing

Then the translator will translate the text to your desired language

Step 3: Output

Output will be in your translated language and its speech

Future Scope

The future of translation will cover more cultures, as the internet continues to penetrate in emerging countries worldwide. besides the top languages for translation. The software will have to provide accurate solutions to communicate with audiences who speak less known dialects.

Thank You!