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PROBLEM CONTEXT

As an online learning company with thousands of alumni from over 200 countries, TechChange is truly fortunate to have a truly global reach. TechChange emphasizes network building and social learning and accomplish this through real-time interaction and active facilitation of groups of no more than 150 participants. As TechChange creates global networks of learners, one thing that is missing is the ability to connect participants that lack a shared common language.

The traditional method for translating web content for users with different language abilities is to have participants set a language preference and then use pre-translated strings and systems like gettext and others to serve the appropriate language for each participant. This is a clunky system that requires a large amount of upkeep and maintenance. With new language processing abilities and API, we would like to create a real-time translation framework for web communication.

While we understand the limitations of current translation APIs, we believe these will only continue to improve and would be a way to begin to expand access and share knowledge across contexts.

SOLUTION FUNCTIONALITIES

This solution should be implemented as a web module that can be implemented in different sites. The functionalities to be limited are as follows:

- All text on the page should be translated on the fly based on user's language preference.
- Real-time communication should be translated to each user's native language.
- User input in comments or other forms should automatically be translatable as well.
- Users should be able to select their target language dynamically
- Enable users to suggest corrections for mistranslated or imprecise translations.

We would recommend that you check out Microsoft's Translator API at <http://www.microsoft.com/translator/api.aspx> and Yandex's Translate API at <https://api.yandex.com/translate/>.