

Your Task: Write an Intelligent Text Translator

Please write a translator for translating strings between two or more languages. Your result are the code files that can be compiled and the compiled application itself. Here are the requirements and acceptance criteria:

General:

- The target platform is iOS - The programming language is Swift - It is allowed to add 3rd party libraries

Functionality:

- The application should have a single page as a user interface - this page contains a textbox (beside other controls) where the user can enter a string in the source language
- when the user hits enter, the application uses web services to determine of which language the entered text is and searches for the English translations of the entered string
- The application shows the translation of the entered text on the same page - The UI of the application has a half transparent gradient background or an image background

Technical:

- The application has to be developed by using object orientation - The application should be tested automatically, at least the core functionality - The project is divided in meaningful parts (think of reusing of parts, maybe for other platform) - The UI should be scalable and fits to different screen resolutions

Nice-To-Haves (pick in the order you want):

- let the user select the target language
- Colorize the background of the textbox in orange when the word was not found
- Colorize the background of the textbox green when the word was found
- The textbox should do a horizontal 360 degrees turn when hitting enter
- Give the user a nice experience and make the app asynchronous
- Be faster than the user, make conclusions while typing (auto-completion of words)
- Start the search in background while typing

Bonus:

- show similar words to the entered word in the same language and sort them by relevance