# Aim

The project is to develop a piece of software to perform language translation to/from English to one or more other languages.

# Requirements

|  |  |  |
| --- | --- | --- |
| No | Requirement | status |
| 1.1 | Translate individual words to and from English to one other languages. |  |
| 1.2 | [optional] Translate individual phrases |  |
| 1.3 | output the translation time in words per second |  |
| 2 | Provide an option to load and translate a text file |  |
| 3 | Provide functions to save dictionaries to file and to load them from file. |  |
|  | Provide a menu |  |
| 4 | Provide a settings option in the menu |  |
| 5 | Provide a setting that allows users to add new words to the translation dictionary when your translator cannot find the word in the dictionary. |  |
| 6 | Provide an option to remove a word or phrase from the dictionaries. |  |
| 7 | Provide an option to display the dictionaries. | Ask iain |
| 8 | Make a jar file + JavaDoc |  |
| 9 | [optional] create a GUI |  |
| 10 | [optional] Support for translations between additional languages |  |
| 11 | [optional] Any techniques to improve the quality of the translation such as ways to handle grammar differences between the translated languages. |  |
|  | [optional] Provide an option to edit an entity in the dictionary |  |
|  | [optional] add words from an API if it doesn’t exist in the dictionary yet. |  |
|  | [optional] Detect the language of the input automatically |  |

# Class Design

## Processor

Handles all input and returns the result.

Notes

Where to catch and handle exceptions?

Do we need the MenuChoice class?

# Tasks

Create a menu

Pseudocode

translate(word,toGerman)

if

word in dictionary return dictionary[“word”]

else

connect to online dictionary API

request translation of word

add translation to dictionary

return translation