**Component: Task Manger**

**Module Name: Translator**

**Author: Edwin Constancia**

**Reviewers: Pratham Choksi**

|  |  |  |
| --- | --- | --- |
| Inputs | Process | Outputs |
| Language | The English word is translated to the language the user wants. | Translated word in chosen language |
| Word |  |
|  |  |

**Inputs:**

**Language:**

The Language the user wants to translate by English word inputted

**Word:**

A word in English from given test cases that will be translated into the language inputted.

**Process Description**

The English word inputted is translated into the Language it was chosen to be translated to. It looks up the translation from the specific language text file through the text broker and returns the translation of the corresponding English word if found. If not found it goes into the error file.

**Outputs**

Specific Language Translation of English word

**APIs/Objects:**

**\*Needs changes**

**Pseudocode:**

Define language as args[0]

Define word as args[1]

Define text file you want the textbroker to look through when u call textbroker through servicebroker as language + .txt

Define Proc1

Define PROc 2

String Parameter equals the tb and wanted textFile and word

call the textBroker through the serviceBroker and insert parameter

Proc 1 runs textbroker file to see what is being inputted

execute execution command and transfer control over to that process

store output and error stream

use buffered reader objects to print out output and error from external process

proc 1 terminates

IF when checked, there are errors returned from the textBroker:

Proc2 will execute the error handling

execute execution command and transfer control over to that process

store output and error stream

use buffered reader objects to print out output and error from external process

**IF "error" is found then we will call error message handle to print out correct message according to 805**

Proc2 will execute the error handling of 805

execute execution command and transfer control over to that process

store output and error stream

use buffered reader objects to print out output and error from external process

**IF "error" is found then we will call error message handle to print out correct message according to 813**

Proc2 will execute the error handling of 805

execute execution command and transfer control over to that process

store output and error stream

use buffered reader objects to print out output and error from external process

**Output of the error message specific error message**

Proc 1 Runtime will return translation of word.   
 **ELSE print out the translation of the word.**

**Before Actual Code Pseudocode:**

\*Available Languages TextFile<- args[1] Lanaguge user puts <- args[0]

Define string chosenLanguage from args[0]

Define string text file from args[1]

Process textbroker file to look up which Language the user would want to translate to

If the string made from args[0] does not match with any of the available Language text file

Process firstProc executes a message file with 805 message

Waits for firstProc termination

Else

ScanFile of the Selected Language text file

While readine

scan every line and split each line according to “, “

String word will contain the translation language (word we want to look up)

String translatedWord will contain translation word in wanted language

If string word is not found in file

Process secondProc executes error message in Language with argument 813

Waits for secondProc termination

Else

Return translated word