

IPO Chart

Component: Task

Module Name: Translator

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Reviewers:

| Inputs | Process | Outputs |
|---|--|---|
| Parameter List | Look for the word that is to be translated in the original language file, translate it to English. Go to the specified language file and find the translated word. | Translated word in the Specific language called |
| Language of the word to be translated (English) | | |
| Language the word is translated to | | |
| The word to be translated | Computer uses the service broker and the parameter list to see where to pass the code. Recognizes and passes the information using the service broker and text broker to the Translator module and back. | |

Inputs:

Service Broker code

Parameter list

Language of the word

The word to be translated

The language the word will be translated to

Process Description

Computer uses the service broker and the parameter list to see where to pass and retrieve the information.

Recognizes and passes information to the Translator module.

It does so by looking for the word that is to be translated in the original language file, translates it to English. Then goes to the specified language file and finds the translated word.

Outputs

The final output is the translated word in the specific language called.

Pseudocode:

The code reads the inputs- the parameters using the service broker. The service broker will send it to the text broker to relay and retrieve the necessary information.

IPO Chart

#Ask user what language they want to translate to- just English words for now

#Open the text files

#find the word to be translated to

#Translate the user inputted phrase using the given dictionary text files

#get the translated word

toTrans = input("What would you like to translate? ")

#looks for the language.txt

#error can't find the file

#error word not found

#Output error if word is not recognized

#Output error if the input is not a word

#output an error if it is in the incorrect Language (a language not found in the text files)

#output the translated text

At this point, the text broker will take the output and relay it to the service broker which outputs it to the user.