

IPO Charts - Team 13

Component: Task Manager

Module Name: Language Translation

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Inputs	Process	Outputs
English phrase	each word is searched in the file for its equivalent	Trnaslated word
Language code		

Inputs:

The user will input an English phrase into the program. The program will search through a file matching the phrase inputted.

Process Description

The user will input two strings, an English phrase and a language code that they want to translate to. The program will take each phrase and find it in the text file, matching the English word to the translated word. The translated word is outputted.

Outputs

The program will output the phrase in the desired language.

If no phrase is found within the file, the program will print an error message.

APIs/Objects:

Scanner objects

File

Properties

InputStream

Pseudocode:

1. Main
 - a. Check if arguments contain at least two parameters
 - b. If it's true, then retrieve the first argument as the language code and the second word as the word to translate
 - c. Call getTranslation function and pass in the two parameters
 - d. Output the translated message
 - e. End main
2. getTranslation(translated word, languageCode)
 - a. Create Properties object
 - b. Open translation properties file as an input stream

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- c. Load properties from the input stream into Properties
- d. Retrieve file name corresponding to the language code from the Properties object
- e. If file name is null, print error message and return empty string
- f. Open file as a scanner
- g. Read each line in the file
- h. Split line into two parts using a comma
- i. The first part is the English word which will be lowercase and trimmed
- j. Second part is trimmed
- k. If the first part is equal to the second part, return the value
- l. Repeat until end of file
- m. If the word isn't found, return a String saying that the translation wasn't found