

LAB211 Assignment

Type:
Code:
LOC:
Slot(s):

Short Assignment
J1.S.P0058
48
1

Title

Write program dictionary.

Background

N/A

Program Specifications

Students are required to write a program called “Simple English - Vietnamese Dictionary” with the following features:

- 1) Add new word
- 2) Delete word
- 3) Search word.
- 4) Exit.

Users will use the program to add their pairs of English - Vietnamese words to the file on disk storage; search and display the Vietnamese word for inputted English word; or remove some pair of words from existing dictionary.

Function details:

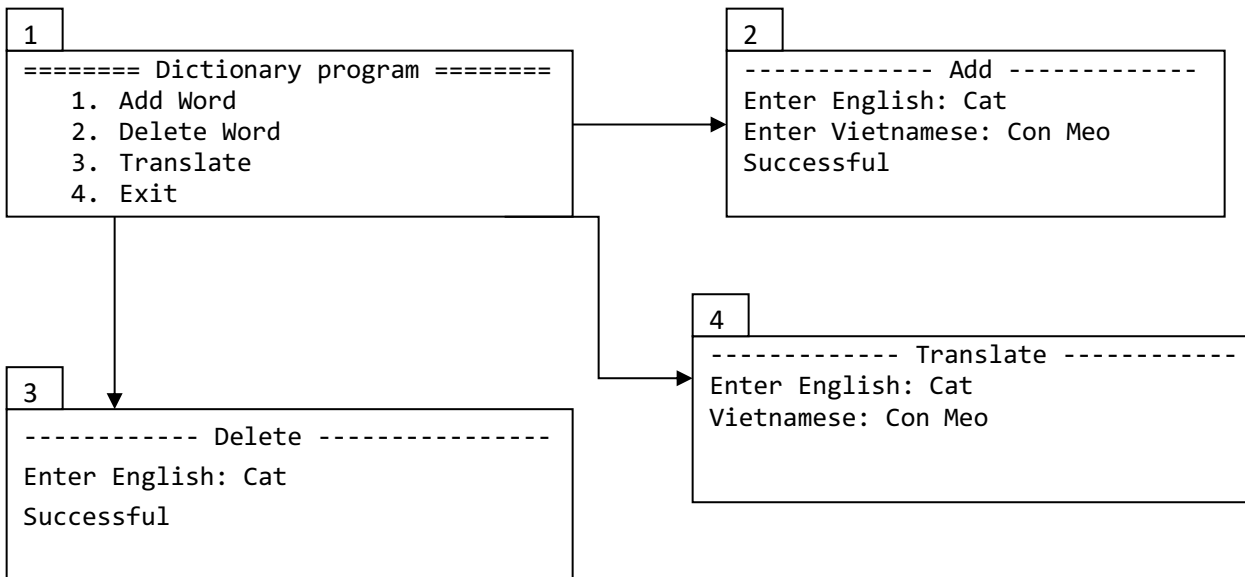
Function 1: Display a menu and ask users to select an option.

- Users run the program. The program prompts users to select an option.
- Users select an option, perform **Function 2**.

Function 2: Perform function based on the selected option...

- Option 1: Add word
 - Ask user to enter a pair of English - Vietnamese words
 - Add the pair to a dictionary (file)
 - Return to the main screen.
- Option 2: Delete word
 - Ask user to enter the English word to be removed.
 - Find and remove the related English-Vietnamese pair of words from dictionary
 - Return to the main screen.
- Option 3: Translate word
 - Ask user enter English word
 - Find the related pair and display the approximate Vietnamese word
 - Return to the main screen.
- Option 4: Exit program

Expectation of User interface:



Guidelines

Student must implement methods

- addWord
- removeWord
- translate

in startup code.

Suggestion:

- Students use the hash map to store worth a pair Eng - Vi
 - o Every turn on the program from will test has data files or not yet:
 - o If there is then load data files recorded on the type HashMap into program by loadData function ().
 - o If not, initialize HashMap is Empty.
- When **adding a keyword** to inspect keywords in the dictionary that has not:
 - o If yes, **ask the users want to update the mean of keyword.**
 - o Otherwise **put into hashmap** then overwrites the data on file with the methods updateDatabase
- Delete file a keyword:
 - o If you find it to delete and overwrite the file data by methods updateDatabase.
 - o If not found, the notification does not exist in the db key.
- Search word:
 - o If found, displays the value found in db
 - o If not found, display empty.

- **Function 1:** Add wordMust install the function: `public boolean addWord (String eng, String vi)`
 - Input:
 - eng: English mean.
 - vi: Vietnamese mean.
 - Return value: the status add word
- **Function 2:** Delete word. Must install the function `public boolean removeWord(String eng)`
 - Input: eng: English word
 - Return Value: status delete word.

Function 3: Search word.

- Must install the function: `public String translate(String eng)`
 - Input
 - eng: English word.
 - Return Value Vietnamese word