

LAB211 Assignment

Type:
Code:
LOC:
Slot(s):

Short Assignment
J1.S.P0076
100
2

Title

Building module csv file format

Background

NA

Program Specifications

Customer provides a CSV file include fields: ID, Name, Email, Phone, Address.

- "Name" field requires each word separated by a whitespace and the first character of word is uppercase.
- "Address" field requires each work separated by a whitespace.

However, the CSV file had 2 errors in "Name" and "Address" fields.

Example:

Name: Nguyen van a correct format must be Nguyen Van A

Address: Cau Giay - Ha Noi - Viet Nam Correct format must be: Cau Giay - Ha Noi - Viet Nam

Develop a program to standardize CSV file with menus:

1. Import CSV
 2. Format Address
 3. Format Name
 4. Export CSV.
 5. Exit
- When the user chooses 1:
 - o Require the user input the path of the csv file.
 - o Check this file exists or not.
 - When the user chooses 2 :
 - o Remove redundant whitespace of address fields.
 - When the user chooses 3:
 - o Remove redundant whitespace of name fields and change the first character of words to uppercase.
 - When the user chooses 4:
 - o Require to enter a file name and then export a file with format follow the format which user chose.
 - When the user chooses 5: Finish the program.

Function details:

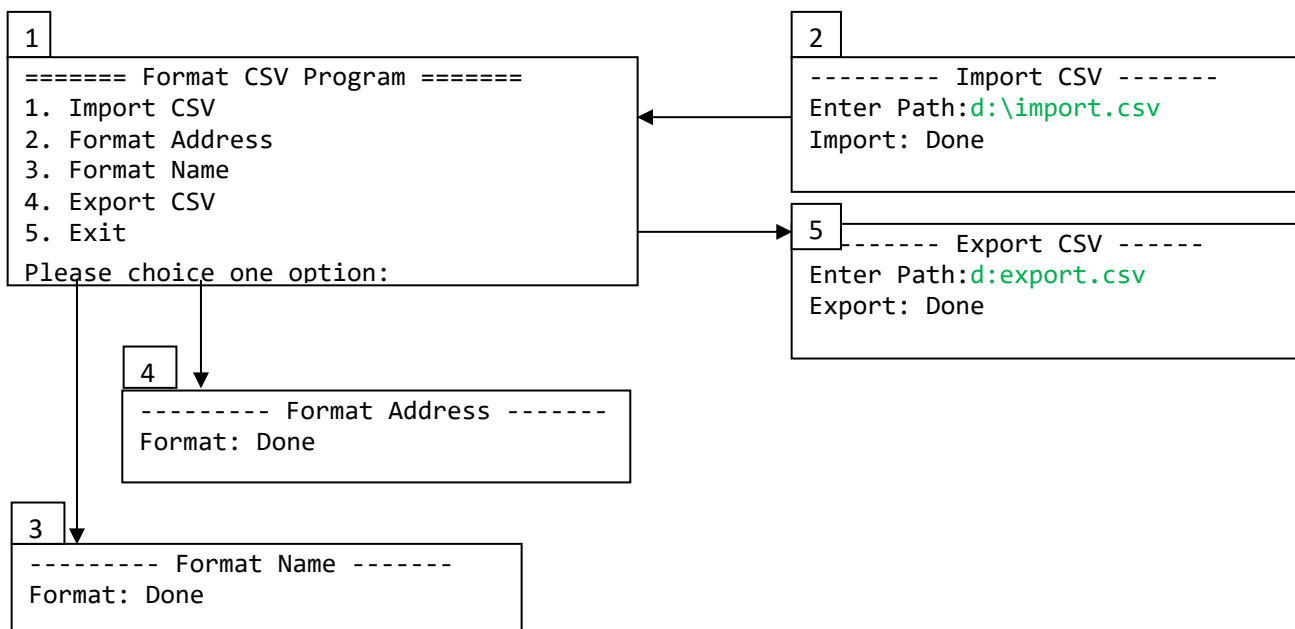
Function 1: Display a menu and ask users to select an option.

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

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

- Option 1: Import CSV
 - Enter file's path.
 - Check file exist or not.
- Option 2: Check Address format
 - Remove redundant whitespace of address fields.
- Option 3: Check Name format.
 - Remove redundant whitespace and change the first character of words to upper cases character.
- Option 4: Export CSV
 - Enter file name.
 - Export a file with format follow the format which user chose.
- Option 5: Exit the program.

Expectation of User interface:



Guidelines

Student must implement methods

```
importCSV  
formatAddress  
formatName  
exportCSV
```

in startup code.

Use String manipulation.

File csv's format following:

ID, Name, Email, Phone, Address

1, Nguyen van a, anv@gmail.com, 0988899999, Cau Giay - Ha Noi - Viet Nam

Function 1: Import csv file.

- Implement function : void importCSV(String path) throws Exception
 - Input:
 - Path: File path.
 - The value output:
 - Set to the global variable dataCSV in class.
 - The list Exception.

Function 2: Format Address Colum.

- Implement function: void formatAddress(String dataCSV) throws Exception
 - Input:
 - dataCSV: data in file csv.
 - Output values:
 - Set to global variable dataCSV in class.
 - The list Exception.

Function 3: Format Name Colum.

- Implement function: String formatName(String dataCSV) throws Exception
 - Input:
 - dataCSV: data in file csv.
 - Output values:
 - Set to global variable dataCSV in class.

- The list Exception.

Function 4: Export CSV.

- Implement function: void exportCSV (String path) throws Exception
 - Input:
 - Path: new file's path.
 - File's information is gotten from global dataCSV in class.
 - Output values: The Exceptions list.