

LAB211 Assignment

Type:
Code:
LOC:
Slot(s):

Short Assignment
J1.S.P0073
100
2

Title

Program to manage expense, name Handy Expense

Background

(Project detached from TTS)

Program Specifications

Write a file processing program using to manage expense, named Handy Expense

Display menu:

1. Add an expense
2. Display all expenses
3. Remove an expense
4. Exit

Selection of users:

1. If the user chooses 1, add an expense. Each expense includes ID (int), date (String), number (double), content (String). Which ID is increased automatically (i.e. expense ID = last expense ID + 1), the first expense ID: 1.

2. If the user chooses 2, The program displays a list of data as follows:

ID	Date	Amount of money	Content
1	11-Apr-2009	100	Tuition fee
2	20-Apr-2009	250	Rent house
3	30-Apr-2009	200	Food
Total: 550			

3. If the user chooses 3, prompt user to input the ID program expenses should be deleted, if nonexistent ID, display a message: "Delete an expense fail".

4. If the user chooses 4, exit program.

Function details:

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

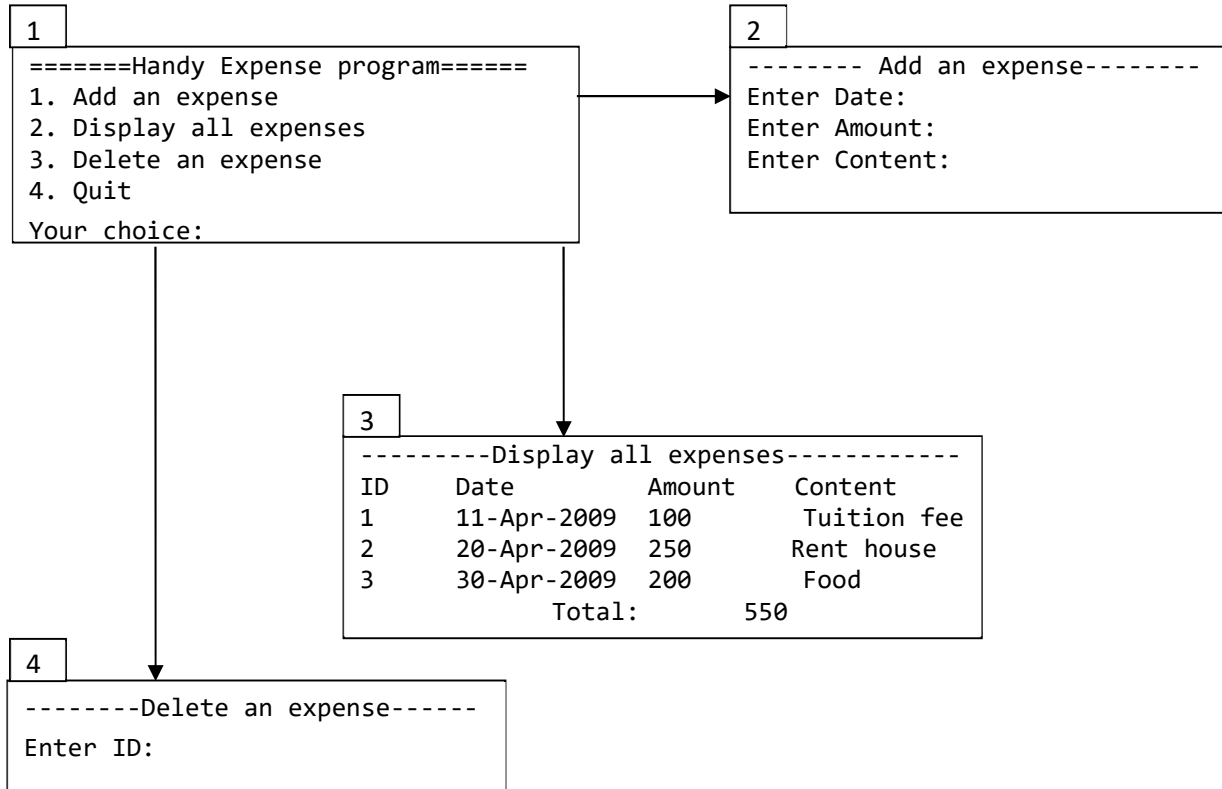
- Users run the program. The program prompts users to select an option.
- Users select an option, perform **Function 2**.

Function 2: Perform function based on the selected option.

- Option 1: Add an expense
 - Prompt users input information of the expense (ID, Date, Quantity, Content)
 - ID auto increase, ID = ID Max + 1 in the next time.
- Option 2: Display all expenses
 - Display the list of the expenses and total all the inputted expense amount
- Option 3: Delete an expense
 - Prompt users input expense ID of the expense they want to delete.

- If ID does not exist, display on the screen: "Delete an expense fail"
- If ID existed, delete and display on the screen : "Delete an expense successful"
- Option 4: Exit program.

Expectation of User interface:



Guidelines

Student implement methods

addExpense
displayAll
deleteExpense

in startup code.

Example:

Function 1: Add the expense.

- Implement function: public boolean addExpense(List<Expense> list, Date date, double amount, String content)
 - Input:
 - list: list of all expense.
 - date: date/month/year.
 - amount: amount of money.
 - content: Content.
 - Return values: Add expense status.

Function 2: Display list of expenses.

- Implement function: public void displayAll(List<Expense> list)
 - Input:
 - list: list of all expenses
 - Return values: void.

Function 3: Delete an expense

- Implement function: public boolean deleteExpense(List<Expense> list, Expense exp)
 - Input:
 - list: list all the expense.
 - Exp: The expense that users want to delete.
 - Return values: Delete the expense status.