

# LAB211 Assignment

Type:	Short Assignment
Code:	J1.S.P0072
LOC:	150
Slot(s):	2

## Title

Write a login function uses MD5 encryption for passwords (separate from FPT Webmail software Project).

## Background

NA

## Program Specifications

Write a login function uses MD5 encryption for passwords.

Username include the following information:

- Username(String), Password(String), Name(String), Phone(String), Email(String), Address(String), Date Of Birth(Date)
- Phone number must be 10 or 11 number
- Email is in correct format.
- Check date of birth (DOB) properly formatted date format according to dd/MM/yyyy

Write a login function use this information, to sign program then displays greeting “Hello + Username”,

### **Function details:**

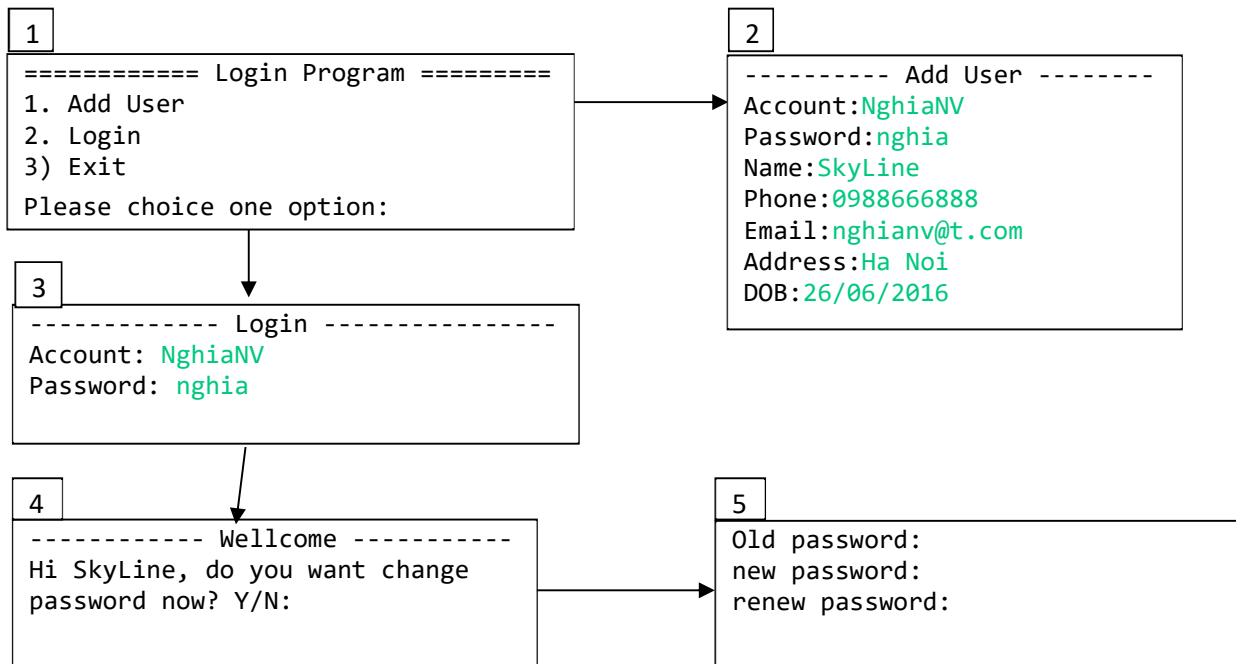
**Function 1:** Display a menu and ask users to select an option.

- 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 account
  - Add Account information (Username, Password, Name, Phone, Email Address, Date Of Birth) .
  - Check data is valid with the following conditions:
    - Username cannot null, empty or already exist in DB.
    - Password cannot null, empty.
    - Phone number must be 10 or 11 number.
    - Email is valid format.
    - Date of birth is valid format dd/MM/yyyy.
  - Password use the MD5 encryption function.
  - Add account in to program.
  - Return the menu.
- Option 2: Login
  - Prompt users to input a username and password.
  - Access to DB search account.
  - If information correct, display the greeting.
  - If information is incorrect reported login fail.
  - Return to the main screen.
- Option 3: Exit the program.

### **Expectation of User interface:**



## Guidelines

### Student must implement methods

- addAccount
- login

### in startup code.

### Function 1: addAccount

- implement function: public int addAccount(String username, String password, String name, String phone, String email, String address, String dob) throws Exception
  - Input:
    - account: account information.
  - Return value:
    - id account.
    - List Exception

### Function 2: Login

- implement function: public Boolean login(String username, String password)
  - Input:
    - account: account information.
  - Return value: login status.