

LAB211 Assignment

Type:
Code:
LOC:
Slot(s):

Short Assignment
J1.S.P0022
150
2

Title

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

Background

N/A

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:

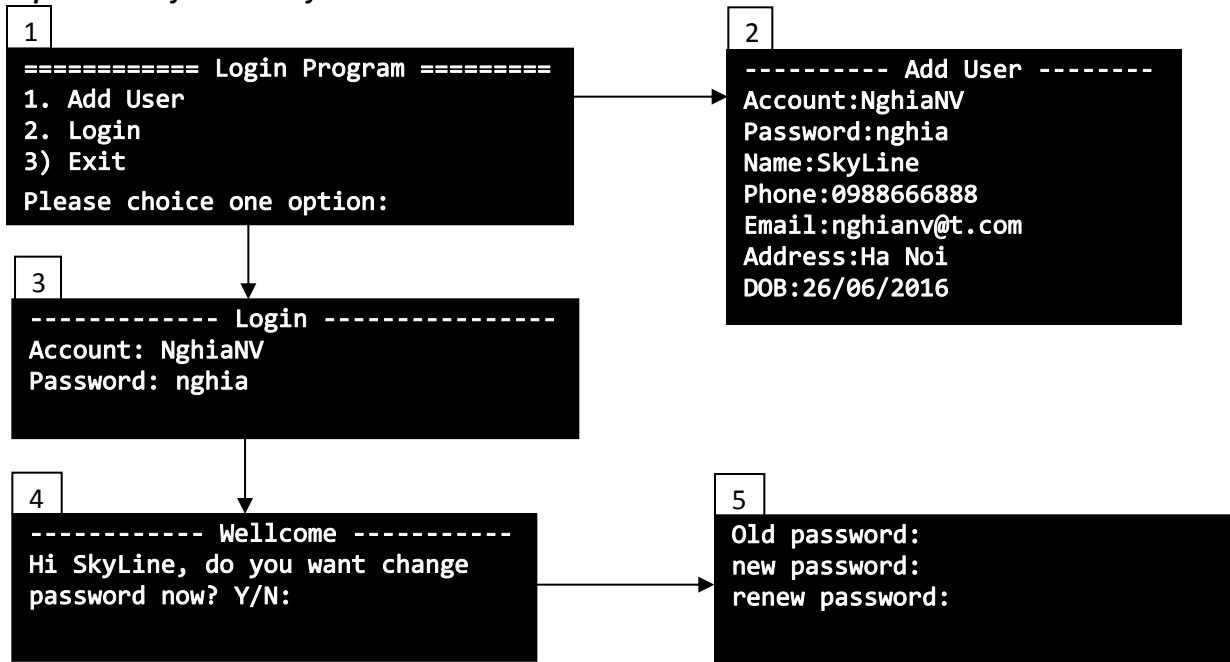
Function 1: Display a menu and ask users to select an option.

- 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.