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",
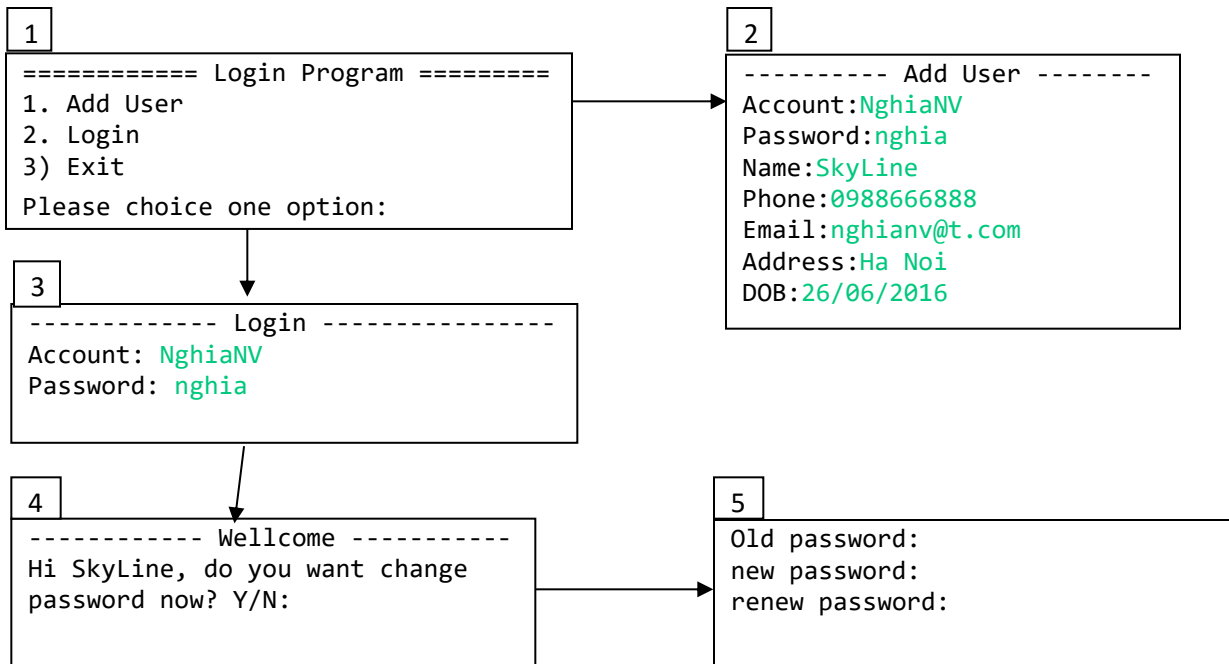
Function details:

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:

```
┌─1─┐
│   ============ Login Program =========
│   1. Add User
│   2. Login
│   3) Exit
│
│   Please choice one option:
└───────────────────────────────────────

┌─2─┐
│   ---------- Add User --------
│   Account:NghiaNV
│   Password:nghia
│   Name:SkyLine
│   Phone:0988666888
│   Email:nghianv@t.com
│   Address:Ha Noi
│   DOB:26/06/2016
└───────────────────────────────────────

┌─3─┐
│   ------------- Login ----------------
│   Account: NghiaNV
│   Password: nghia
└───────────────────────────────────────

┌─4─┐
│   ------------ Wellcome -----------
│   Hi SkyLine, do you want change
│   password now? Y/N:
└───────────────────────────────────────

┌─5─┐
│   Old password:
│   new password:
│   renew password:
└───────────────────────────────────────
```

Guidelines

Student must implement methods
- addAccount

- login

 in startup code.

Function 1: addAccount
- o 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
  - o implement function: public Boolean login(String username, String password)

  - Input:

    - account: account information.

  - Return value: login status.