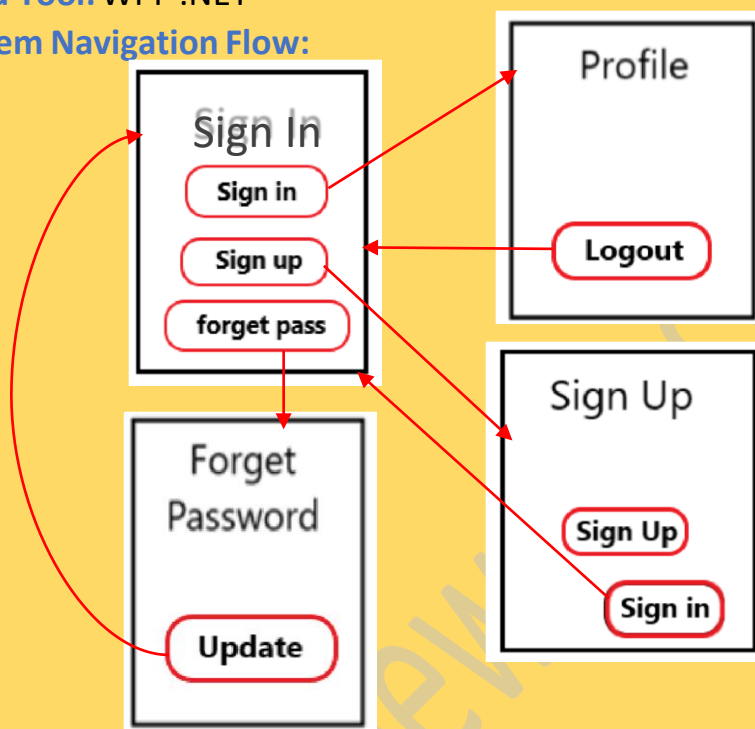


## Desktop Assessment Case-study

**System Name:** Registration & Login Desktop Application

**Used Tool:** WPF .NET

**System Navigation Flow:**



1. In the "Sign in" from, user has three options:
  - a. Click on "Sign up": user has two options: first, if has no account: user can register from "Sign up" screen.
  - b. Click on "Sign in": If the user already has an account he can login to the system.
  - c. Click on "Forget Password": If the user forget the password he can recover it from "Sign in" screen by click on "forget password" button.
2. If the user update his password in "forget password" screen, the system will redirect to the "Sign in" screen and the user is asked to input the username and new password.
3. If the user logged in successfully the system will redirect to Profile screen that shows all of user data saved in data base.

4. In the “Profile” screen, user can exit the system by click-on “logout”. Then, the system will redirect to the “Sign in” screen.

**Database:** Create only one table User that has following attributes.

- User(user\_id, Username, Password, Age, Gender, Phone number, City)
- User\_id is Auto Increment
- Age is binary “Male” or “Female” ○ Phone number size is 11.

**UI Controls:** Using following controls in XML is a must

- Label
- Textbox
- Combobox
- Button
- Radio button
- Grid
- Image

**Style Controls:** Using following style controls in XML is a must

- Font size
- Background
- Margin
- Border
- Foreground
- Font family

### **System Description:**

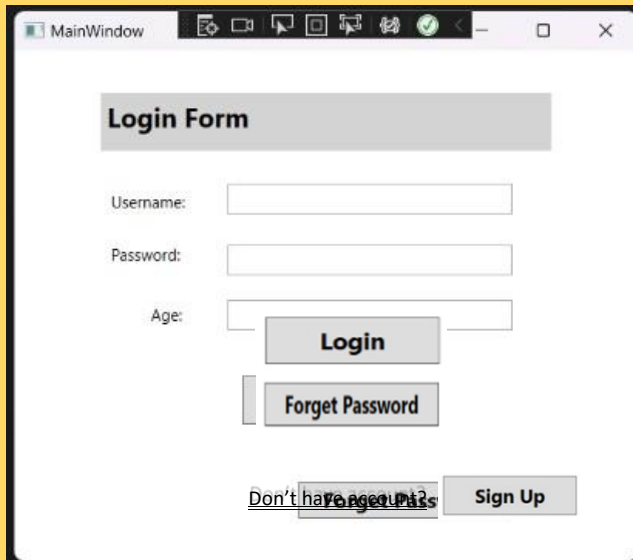
#### **1. Sign-Nn Screen:**

##### **Purpose:**

The login subsystem verifies user credentials and grants access to authorized functionalities within the application.

**Key Components:**

- Sign-in Interface: A form or screen where users enter their credentials (username and password) to access their accounts.

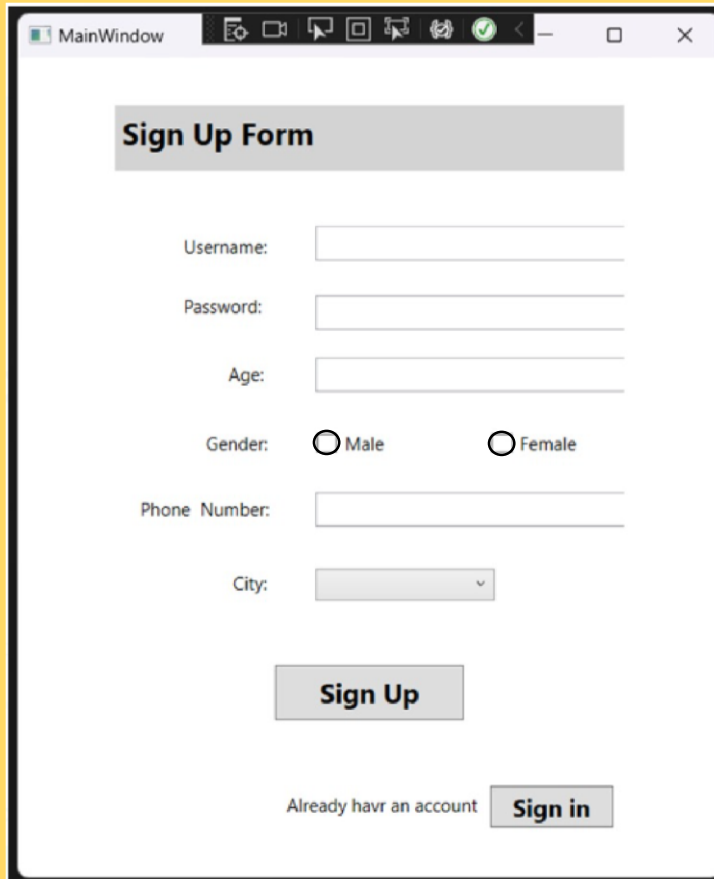
**2. Sign-Up Screen****Purpose:**

The registration subsystem enables individuals to create user accounts within the application, granting them access to its features and functionalities.

**Key Components:**

- User Registration Form: A WPF page that collects user details, such as username, password, age, gender, phone number(Unique), city.
- Input Validation: Validation mechanisms to ensure the correctness of userprovided information, preventing invalid data.
  - ❑ Password: must contain characters, numbers and special characters
  - ❑ Age: must be from 18 to 60      ○      ○
  - ❑ Phone number: must be 11 number
  - ❑ City: user can choose from at least five cities.
  - ❑ Gender: must be binary “Male” or “Female”

- Database Integration: Interaction with the database to store user account information using Entity Framework.



### 3. Forget Password Screen

**Purpose:**

A screen to update forgotten passwords through following steps:

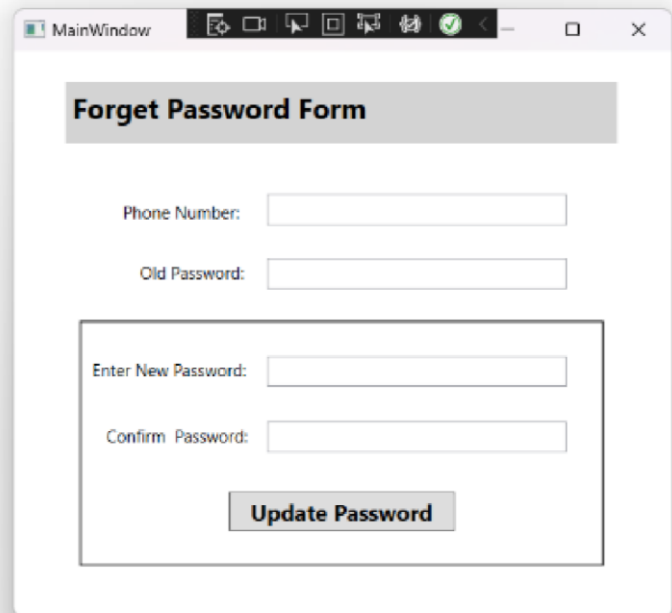
- Password Recovery:
  1. Entering phone number(Unique)

2. The system will show old password
3. The system asks user to enter a new password and confirm it by entering a new password again.

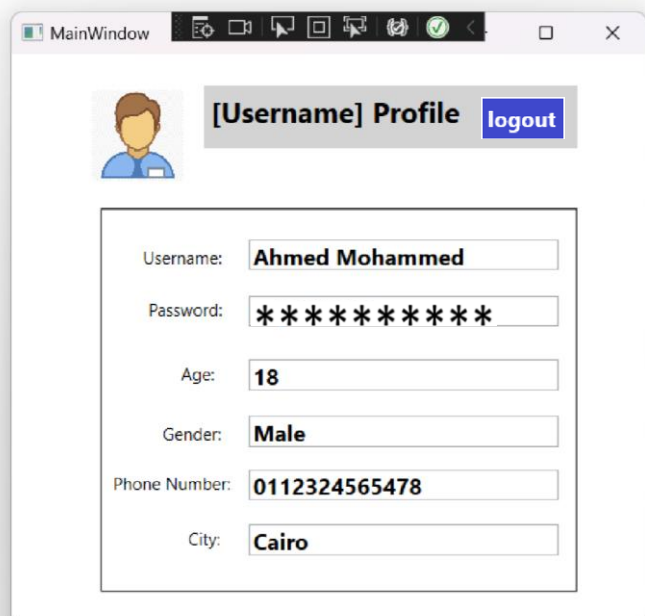
□ New password field and confirm new password field must be the same.

#### 4. Profile Screen:

- Profile Interface: Interaction with the database to retrieve user information using Entity Framework and show in the profile screen.
- Showing User profile picture is a must.
- User can logout from the system by click on “logout”.
- User information retrieved from database are:
  1. Username
  2. Password: must be masked
  3. Age
  4. Gender
  5. Phone number
  6. City



The screenshot shows a 'Forget Password Form' with the following fields: 'Phone Number:', 'Old Password:', 'Enter New Password:', and 'Confirm Password:'. There is an 'Update Password' button at the bottom.



The screenshot shows a user profile screen for 'Ahmed Mohammed'. It includes a user icon, a 'logout' button, and fields for Username, Password (masked with asterisks), Age (18), Gender (Male), Phone Number (0112324565478), and City (Cairo).

**GOOD LUCK**