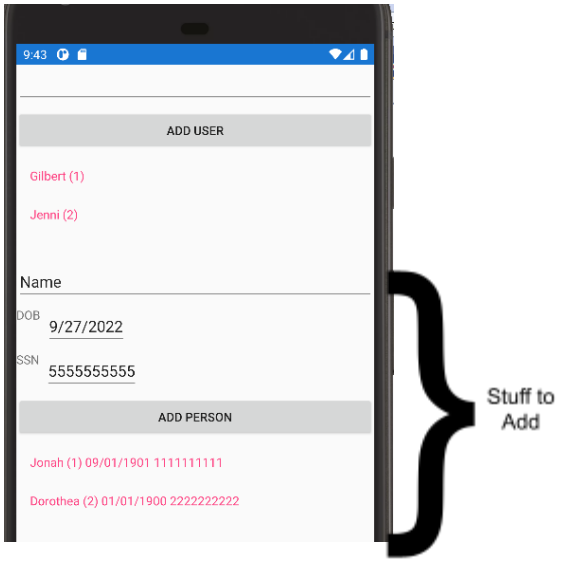
CSE 382
Exercise - SQLite

Use the project `DBIntro` that you completed in the "SQLite: first steps in C#" document as the starting point for this exercise.

For submission: Push `DBIntro` to Git and submit a video demonstrating your completed project. In your video start with your app looking like the one shown. Follow the steps below to demonstrate your program. **Answer the questions (bold items) during your video**.

- Add a new class named `Person`, which should include the following fields:
  - Id (int), Name (String), DOB (DateTime), and SSN (String)
  - Ensure that attributes on the class and properties so that the tables are correctly created.
  - Consider which fields should be AutoIncrement, Unique, etc.
  - Make sure that you define a ToString method that includes all the Person's information.
  - During the video, display the attributes that you placed on the Person fields.
- Modify the GUI (see figure)
  - Put controls for Name, DOB, and SSN on the GUI to allow the user to add a Person to the DB
  - Display the `Person` data in a ListView:
- Test your code
  - Verify that new `Person`s were correctly, and persistently, inserted into your DB.
  - **Were the entries in the `User` table preserved when a new Table was added? Or, were the `User` entries deleted?**
- Run the app and add at least 3 individuals to the table.
  - Close the app.
  - Rerun the app.
  - Add a new Person and verify that the DB still holds the 3 Persons previously inserted.
- Now, add a new field to the Person table:
  - Add a new integer field - Income - to the Person class.
  - Add GUI elements that allow the user to enter the Person's income. Add Income to the ToString() method's output string. This is not shown in the image to the right.
  - Rerun.
  - **When you added the Income field after several records were created, what was the value of Income for the records that were previously added?**



- **Some questions to answer at the end of the video (you do not have to demonstrate how you arrived at the answers to these questions):**

- **If you were to rename Income to Income2 in the Person class, are the values of Income carried over into Income2?**

Some possibly useful things that can be done in your C# code (in case you want to clear out your DB):

- `File.Delete(fname);`
  - removes the DB from the Sandbox
- `conn.DeleteAll<User>();`
  - removes all rows from the table User.
- `conn.Execute("DELETE FROM User");`
  - removes all rows from the table User.