[**Homework#8**](https://bb-csuohio.blackboard.com/webapps/assignment/uploadAssignment?content_id=_6362376_1&course_id=_168060_1&group_id=&mode=view)

Contact management app version 3:

* Based on contact management app version 2, please use SQLite database to store the collected contact information.
* By using SQLite to store the contacts, your app now can store the contacts persistently, i.e., even if you close your app and restart it, all the contacts will not be lost, and they should still show in the ListView.

Solution:

UI control on the screen of the first activity so that you can go to the scond activity:

In layout: activity\_first.xml, I added a button “Add Contact” so that upon a mouse click, the screen will go to the Second Activity where details can be added.

<Button  
 android:id="@+id/buttonAdd"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="32dp"  
 android:text="Add Contact"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />

UI control on the screen of the second activity in layout activity\_second.xml, I have added 3 text input fields, where name, phone number and email address details can be entered and also a button “Submit” to save contents in first activity page.

Below code is for input field of name and I have done similarly for other 2 fields:

<EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="48dp"  
 android:ems="10"  
 android:hint="name"  
 android:inputType="textPersonName"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />

Here is the code for submit button,

<Button  
 android:id="@+id/buttonSubmit"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:text="submit"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextTextEmailAddress" />

Code for ListView:

<ListView  
 android:id="@+id/listView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 android:padding="16dp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/buttonAdd" />

Code for viewing each contact details in Third Activity or new screen:

<TextView  
 android:id="@+id/nameTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />

Also linked everything to SQLite database so that data entered can be retrieved even after apploication is restarted.

NOTE: View iteration starts after one count, that is after entering first contact details, data is saved but not displayed, and after adding second contact data first contact is displayed. Am not sure of the reason but other than this output is all good.

Screenshots:

A black cell phone with a white screen

Description automatically generatedA screen shot of a phone

Description automatically generated

A screen shot of a phone

Description automatically generatedA close-up of a cell phone

Description automatically generated

Adding Contact details

A screenshot of a cell phone

Description automatically generatedA screen shot of a cell phone

Description automatically generated

List View and Contact Details View

A black cell phone with a white screen

Description automatically generatedA screenshot of a cell phone

Description automatically generated

After restarting and adding contact previously saved contacts will also be visible