

Overview

This app's purpose is to give you more experience working with SQLite database and managing multiple views.

Design and Functionality

Write an app similar to the RecordStore app we built together in class in Notes and Slides 5. Menus and SQLite Database. The app you will develop for this assignment will store and manipulate a contacts list that stores a contact's first name, last name, their email address and phone number with area code.

You will store your contacts in an SQLite database. You will need to add functionality to add, update and delete a contact. When the user opens the app, you should show a scrollable list of all the contacts in the list on the first screen with all four fields showing (it is NOT necessary to show the database item's id number).

Also, on the first screen, you need to provide a search capability by email. If a match is found, it should show the contact's first and last names. Think of the best way to have the search capability on the first screen along with the scrollable list of contacts. Do not worry about a search capability based on phone number.

Finally, the search capability should include an autocomplete feature so that, as the user types an email address, a drop-down list can suggest possible matching emails retrieved from the database. This will involve implementing an `AutoCompleteTextView` widget.

Requirements/Notes

1. The code that is submitted must be thoroughly documented. All variables, objects, widgets and file names – both xml and Java – must have descriptive and appropriate names. Any submission that does not have enough documentation or documentation that is unclear will lose lots of points.
2. Note that you will store the phone number's 10 digits as an integer of the Java type `long` in the database. You will display it with hyphens in the form 123-456-7890, (123) 456-7890 or 123.456.7890.
3. If you choose to do so, you may force portrait orientation only.

What to Turn In

Document any Java classes as described in *322 & 522 Android Coding and Documentation Guidelines* and zip any apps separately.

Attach your zipped file(s) to your assignment submission on Blackboard.