

Android Lab Assignment #5

Simple Contact Book

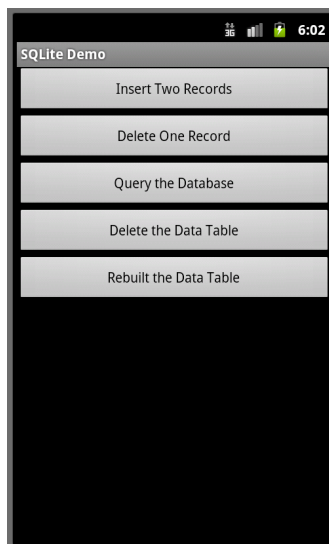
Introduction

By adopting some basic concepts of the storage solutions in the Android system, some more complex application can be built in the Android system with storage content, such as note and contact book. For single application storage, shared preference can be used to store setting, configuration, username, password etc. Intent storage and external storage can be used for the file format storage. Also, SQL can be implemented within SQLite inside the Android system and almost all the skills and experience from SQL development can be capable with SQLite.

Deadline: Feb 28. 11:59 p.m.

Assignment

1. Please design a simple contact book with operation of adding, delete and query contact item.
2. The UI is depending on you. You can either show a dynamic changing contacts list or you can hide the list leaving some buttons.
3. You can refer to the examples of the storage system, which includes shared references, internal storage, SQLite etc. You can learn the details on how the SQLite is operating such as building a new database table, adding/deleting records and check the database status.
4. Write a report about your work. In the report, please give the details on the process of your work, and use some diagrams or pseudo-code to present your program structure. Screenshots are necessary to show how your contact book works in the report. You can put your code as the appendix.
5. You can also refer to some instructions on the Android develop materials of **ContentProvider** to learn how to exchange the data between applications.



Hint:

1. Try to learn some basic SQL commands to help you build the SQL database in Android system.
2. The SQLite Demo provided by the course's example code gives some basic operation of the SQLite database. The simple contact book can be built with the SQL demo.
3. However, since the operation status is shown as title in the original demo program, some more activities should be added to implement more complex user interface (Don't just copy and paste!)