Assignment 2   Report

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Part1:

1. The **ListView** widget is used to implement a scrollable list view of contacts.

2. Rewrite the adapter named **CheckBoxCursorAdapter** extends from **SimpleCursorAdapter**. Add a checkbox variable and a new function return checked list. The delete button get the checked list and delete items in the database.

3. Set an onitem click listener on the **ListView**. Then start the activity **Contact_profile** and transform the "name" on the item to this activity. Read the information of this person from database and display it on the screen.

4. This program access the database via class **MyDatabaseHelper** extends **SQLiteOpenHelper**. In addition, the class **databaseManager** is use for operation.

5. Set an onclick listener on the "add" button and start the activity **Contact_details**.

6. Two **EditText** widgets are used to input name and phone number. A **ListView** widget with **CheckBoxCursorAdapter** is used to store the relationship to database "relationship" table. **Addperson** button could write the name and phone in the "**contacts_list**" table and relationships in the "**relationship**" table.

7. **ListView** of relationship access the data from "**relationship**" table. Select all the row when one of the name is in this row and show another name.

8. Set an onitem click listener for relationship **ListView** in activity **Contact_profile**. In the function, start a new activity and read the data from the database for the new item via name.

9. When storing the relationship of two person via name1 and name2. One relationship will have two rows. While read the relationship from table, both person in this relationship could have one row for themself.

Part2:

1. Create a new fragment "**contact_list_fragment**". It contains the same functions as **Contact_list** activity.

2. When the orientation changed. The information in the **EditText** would not disappear. For the **Contact_profile** activity, it can still get name and display the whole information on the screen.

3. Set onitem click listener on **ListView** and start **Contact_profile** on the right and **contact_list_fragment** on the left.

4. Set onclick listener on **add** button and start **Contact_details** on the right and **contact_list_fragment** on the left.

5. The functions in the fragment are the same as functions in the activity in Part1, so the delete button and relationship list are also the same as portrait view.

6. While design the landscape layout, use "**weight**" to modify the occupation of left fragment and right fragment.

7. While clicking the contact name in the relationship **ListView**. It would record the name of item and start a new **Contact_profile** activity with selected name. This **Contact_profile** would show on the right of landscape view.