



University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)
FACULTY OF INFORMATION TECHNOLOGY

Mobile Application Development Spring 2021

Section C, D, and R1(SE)

Assignment No.	03
Submission Deadline	<i>Sunday June 27, 2021 11:59 pm</i>
Instruction(s)	<p><i>You need to submit a zip file containing following:</i></p> <ol style="list-style-type: none"><i>1. Kotlin folder: containing all kotlin files</i><i>2. Layout Folder: containing all Xml files of layout</i><i>3. Drawable folder (optional): it contains all other images, icons if you use in your project</i><i>4. Screenshots Folder: it contains screen shots of mobile screen with all possible outputs (Each screen) e.g. while testing your application, you have to take screen shot of each test case.</i> <p><i>No Extension in deadline</i></p>

Description:

Objective of this assignment is to get hands on practice with SQLite database and RecyclerView. You have to design a student database using SQLite database and display data using RecyclerView when user wants to display data. You need to design an android application with multiple screens as following:

Screen 01: Home screen

Home screen displays options for the following:

- 1. Add New Student*
- 2. Search Student*
- 3. Delete Student*
- 4. Display All Students*

You can use a simple Listview to show these options or use buttons for each option.

Add New Student: when user choose this option, a new screen appears, where user have to enter student's details including Reg. no, Name, Age, CGPA, No. of subjects and address. Finally, user presses a 'SAVE RECORD' button and student data is saved. In case of an error, a relevant message is displayed

Search Student: when user choose this option, a new screen appears, where user have to enter student's Reg. no. or student name to search record(s). When user presses 'Search' button, relevant student(s) is/are displayed on screen using a simple Listview. Application should be able to search by reg. no OR student name.

Delete Student: when user choose this option, a new screen appears, where user have to enter student's Reg. no to delete record. When user presses 'Delete' button, relevant student is deleted from database if student exists in database.

Display All Student: when user choose this option, all the records saved in database are displayed on a new screen using well designed RecyclerView. You should use a general circular image/Avatar with each record when displayed on RecyclerView.

Best of Luck ☺