

Lab Assignment #4 – Developing a Student Recruitment App

Due Date: Week 9

Purpose: The purpose of this lab assignment is to:

- Develop Android Apps using Data and Storage API

References: Textbook, ppt slides and Android tutorials (<http://developer.android.com/guide/topics/data/data-storage.html>,
<http://developer.android.com/guide/topics/data/data-storage.html#db>)
This material provides the necessary information that you need to complete the exercises.

Be sure to read the following general instructions carefully:

- This assignment **may be completed in pairs** following **pair programming** rules: <http://www.extremeprogramming.org/rules/pair.html>.
- You will have to **demonstrate your solution in a scheduled lab session** and upload the solution on e-Centennial through the **drop box** link.

Description and instructions

Centennial college is asked you to develop a "**Student Recruitment**" android app for an online student recruitment process. This app should include the following functionalities:

1. Main activity with two login options one for students and other one for college admin staff.
2. Students' and Admin staffs' username will be stored in Shared Preferences after successful login.
3. Create another activity that allows students to register for a program.
4. Students can see the registration information (Student personal information, program and payment information) once their registration is successful.
5. Admin staffs can view all the student's registrations.
6. Students can change the program for a certain period after the registration.
7. Staff can update the recruitment status "In-Process" into "Admission Granted".
8. Provide a friendly and easy to navigate UI with the use images and image buttons.

Create a SQLite database with following tables (Student, Admin, Program and Payment) and fields using SQLite classes (see the week-6 student database test example). You are free to add any missing appropriate fields in the following tables.

Student	Admin	Program	Payment
studentId userName password firstName lastName address city postalCode	employeeId userName password firstName lastName	programtCode programName tuitionFee Duration Semester	studentId programCode totalAmount amountPaid balance paymentDate status

Assessment Rubrics:

Functionalities: All working, proper naming of activities, variables, and methods. Provide comments. Provide explanation when asked during the demonstration of the app.	60% (Demonstration 10%)
SQLite Database design and implementation with tables, fields and values.	20%
UI friendliness (proper layout, controls, styles, themes, images)	10%
Use of appropriate resource files and Innovative features	10%
Total	100%

Android Apps - project Naming rules:

You must name your Android Studio application according to the following rule:

COMP304-001_Assignment4

Submission rules:

Submit your applications as **zip files** that are named according to the following rule:

Student1Name_ Student2Name_AssignmentNumber.zip

Example: **John_Smith_Assignment4.zip**

Academic honesty (Plagiarism and cheating)

All students must follow the academic honesty policies regarding Plagiarism and cheating on assignments, Quizzes or Tests. Centennial college's Academic Policy will be strictly enforced. To support academic honesty at Centennial College, all academic work submitted by students may be reviewed for authenticity and originality, with utilizing software tools.

For more details, please visit the Academic Honesty site on

<https://www.centennialcollege.ca/mycentennial/your-support/academic-support/student-academic-advising/academic-honesty/>