COMP 3617

Assignment 3

Due Date:

4/8/2016

@11:59PM

Assignment Details

* The assignment is to enhance **Assignment 2** (**Tasks Android Application) with the ability to persist the tasks information. You can either use SQLite capability or use a cloud provider like Firebase to store the data in the cloud.**
* The purpose of this assignment is for you to understand and implement SQLite functionality (or equivalent cloud provider functionality) for persisting data, explore Fragment API, implement Settings capability using Preferences/Shared Preferences API.
* Set the Package name to be “**com.comp3617.assignment3**” and Application name to be your “**first\_last name**”. Failure to do would so would prevent the assignment from being graded
* Assignments must be done individually and there should be no sharing of work amongst students. If you are found in violation of this, you will receive a “0” for the assignment and will be reported to BCIT
* **Since this is the last assignment no extensions will be given**
* When you create the Android Application in Android Studio follow the exact instructions shown below (as you did in your assignment 1) with regard to naming the Application and Package. This is required to enable me to identify whose submission it is and also keep the number of assignment apps installed on my emulator to a small number.
* If there are any technical details missing, try to make realistic assumptions and build on them

# To Hand In:

* Assignments must be zipped (.zip extension) up and uploaded to the drop box folder for the Assignment 3. Do not use any other compression utility other than plain zip
* Provide any special instructions, if you happen to have for your app, when you upload your assignment
* Assignment Zip files should be named as follows: FirstNameLastName.zip (Just zip up the Android Studio project for your app and this should follow the naming convention if you have followed the instructions)
* When you upload the zip file to drop box, add a comment stating how many hours you spent working on this assignment

# Requirements

* Provide SQLite based storage capability for the app – design the table structure to suit your persistence requirements. You can definitely explore a cloud provider for the same functionality if you would like to (20)
* You are encouraged to go beyond what has been asked for in terms of functionality in the app, but at minimum you should satisfy the minimum feature requirement of persisting the tasks using the SQLite functionality or a cloud provider
* Make use of Android Resource files everywhere possible and avoid using literal strings/dimensions in the application
* Make use of Action Bar to navigate around in the app (5)
* Provides a Settings Activity to allow the user to store app specific settings (like adding a reminder by default for a due date, email functionality etc). Based on this setting, you would need to perform some extra actions like setting the reminder, enabling email button etc (10)
* Display confirmation dialog before deleting the task – use fragments to display the dialog (5)
* Display the date picker using a Fragment (Hint: The slides have sample code for this) (5)
* Explore the Share Action capability in the action bar that would let you incorporate share functionality in your app for sharing a task via different share providers (SMS, Email, Facebook etc). (5)