

Android Development Fundamentals

Android 210 Winter 2015

Homework 4

Description

Create a task list application that persists data with a sqlite database.

Use Cases

1. The User launches the application, a blank page is presented with a TextView "Task List".
2. User clicks on Add icon on the ActionBar to go to a screen where user can create a new task, then click on OK to finish entering data and return to the main screen.
3. User clicks on Delete icon on the ActionBar to delete task(s).
3. When exiting and restarting the application, the current list of added tasks is retained. Data persistence is done via a sqlite database.

Requirements

Create a **Ice Cream Sandwich-compatible** Android application that has two screens.

Please see the wireframes on page 3. Please note this homework focuses on persisting data with sqlite db; however, there are also UI requirements that you need to follow.

Main screen displays a TextView, and a ListView below the TextView, and two menu items on the ActionBar.

- A **TextView** with text "Task List", centered horizontally with text size of 22sp.
- A **ListView** that displays a list with data from the sqlite database.
- **ActionBar:**
 - There are two menu items on the ActionBar: Add and Delete.
 - Click on **Add** menu item on ActionBar will take user to the Task Create screen to create a new task. Icon will be provided.
 - Click on **Delete** menu item on ActionBar will allow user to delete one or multiple tasks from the task list. Icon will be provided.

Task Create Screen

- User can enter task name (EditText) and task description (multiline EditText) on screen.
- Validate user data input (i.e. each field needs to be filled out) after user clicks on the OK button. Persist data in a sqlite database.

Name the application "Homework 4" and verify this is reflected on the Application title on the first screen when running.

Points

There are a maximum of **20** points for this homework.

Requirement Points (16 points)

- 0 points You didn't try.
- 5 points The application doesn't work – but you tried.
- 16 points The application works and fulfills all the requirements:
 - 4 points - UI meets the specifications.
 - 4 points - App properly creates sqlite db and uses it to persist data.
 - 4 points - App supports add task.
 - 4 points - App supports delete task(s).

Discretion Points (4 points)

- 2 point Clean, consistent code (You may have applied a style formatter)
- 2 point Useful documentation (From a few key inline notes all the way to JavaDoc quality documentation)

Delivery

Zip up the project directory into a zip file **{YOUR UW Net Id}-hw3.zip**. (For example, margam-hw3.zip.) Upload the homework zip file to catalyst homework dropbox.

Delivery Points Modifier

- 100% Homework is delivered before Monday, Mar 9, 2015 @ 5:59pm
- 0% Homework is delivered after Monday, Mar 9, 2015 @ 5:59pm
- **No late homework is accepted!**

