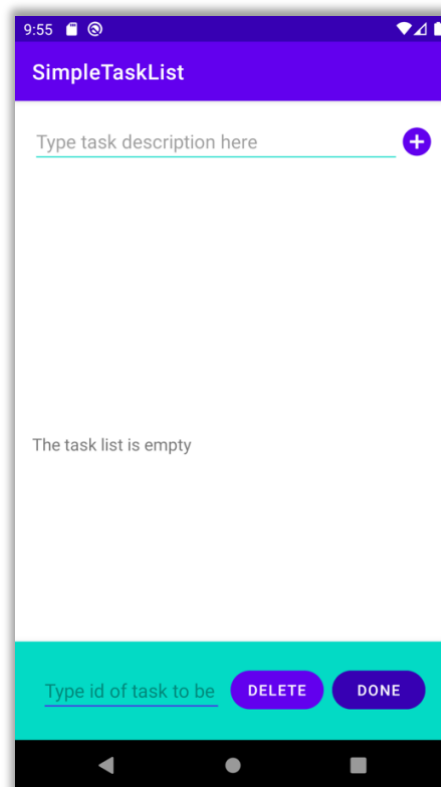


CPSC 3367 – Mobile Application Development

Assignment 02 · Max grade: 100%

Download or clone the [MVC Assignment project](#). The project provides the skeleton of a super simple to-do list app based on an MVC architecture, including the definition of the graphical user interface (GUI) layout.



Make the following changes in the java classes provide to make the GUI interactive [Further information is provided through the TODO comments in the code]:

- [5%] Define two attributes for the **Task** class: one to store the task description and a second one that indicates whether the task is done or not.
- [5%] Define **Task** class constructor and the corresponding getters and setters.
- [5%] Define **TaskList's** attributes. The class will have just one attribute to store all the tasks created by the user.
- [5%] Define **TaskList** class constructor and the corresponding getters and setters.
- [5%] Add the definition of a **TaskList** member(attribute) to the **MainActivity**. Initialize the new member.

- Create a new method called "**onAddBtnClicked**" in **MainActivity** class to add a new task to the task list using the description provided through the text field on the top of the screen by tapping the "+" on the right.
 - **[10%]** Define a new method called "**add**" in **TaskList** class that, given a task description, creates a new task and adds it to the task list.
 - **[20%]** Define a new method called "**toString**" in **TaskList** class that provides a formatted string with all the tasks in the task list.
- Create a new method called "**onDeleteBtnClicked**" in **MainActivity** class to delete a task from the task list. The method will be invoked every time the user taps the DELETE button.
 - **[10%]** Define a new method called "**delete**" in **TaskList** class that, given a task id, deletes the corresponding task from the task list.
 - **[15%]** Use the pertinent methods from the **TaskList** class to implement **onDeleteBtnClicked** method's body in **MainActivity** class.
- Create a new method called "**onDoneBtnClicked**" in **MainActivity** class to mark a task as done. The method will be invoked every time the user taps the DONE button.
 - **[10%]** Define a new method called "**markDone**" in **TaskList** that, given a task id, marks the corresponding task as done.
 - **[10%]** Use the pertinent methods from the **TaskList** class to implement **onDoneBtnClicked** method's body in **MainActivity** class.