

Mobile App Engineering and User Experience - Fall 2017
1st Assignment – To Do List Report
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Summary

As an undergraduate student, I achieve all the requirements including the graduate students'. And I believe my assignment points will be in the range of 100 points maximum. The details are listed as below.

UI Features:

- Meet all requirements including the graduate students'.
- The editTitle can have 1-line max and 20-characters max while the textMultiline editDescription can have 3-line max and 256-characters max.

Functions implemented:

- When long click a task in the ListView, user can delete the task that has been selected.
- By clicking the "Add" button, a new task with a title and a description will be added into the ListView.
- After pressing the "Add" button, current contents of ListView will be saved to a text file.
- Use SQLite to store the task list. If the user terminates and reopens the APP, all the tasks will be loaded from the database. It's easy to load from the text file as well (see **Notes**).
- If the user checks the checkbox, the corresponding task item will be deleted directly.

User-friendly Features:

- None of the EditTexts will get the focus when the APP opens, so the Input APP will not automatically show up.
- Neither the title nor the description can be empty, or there will be a toast to remind the user, and the empty one will get the focus.
- When press the "Add" button, if the task added successfully, EditTexts will be emptied. At the same time, the editTitle will get the focus, to make it easier to add a new task.
- The title in ListView is 1sp larger than the description. Also, it is bold and colored to help the user identify each task more easily.
- After long clicking a task in the ListView, the APP will ask the user whether to delete the task or not, in order to prevent misuse.
- All operates by user will let the APP show a toast.

Notes:

- All operates including pressing the "Add", long clicking the item and checking the checkbox will change the text file.
- The text file is in /Android/data/me.tbis.todolist/files/todolist.txt of external storage. Use a file explorer to find it. (You can't find it on the computer because it's a private file)
- The tasks are stored as "id: id\r\ntitle: title\r\ndescription: description\r\n".
- The APP runs properly on my Oneplus one (Lineage OS, Android 7.1.2) and virtual devices like Nexus 5X (Android 7.1.1 x86) and Nexus 5X (Android 6.0 x86).