



ToDo Project - I

Assignment

ACADGILD

ToDo Android App

Assignment – ToDo App.

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1. Introduction

This project will test your skills on android basic topics covered till now in the class.

2. Objective

This project will help you to master the following concepts:

- activity
- intent
- menu
- dialogs
- database

3. Prerequisites

Not applicable.

4. Associated Data Files

<https://s3.amazonaws.com/acadgildsite/course/android/project/ToDo+--+Assets.zip>

5. Problem Statement

5.1 What need to be implemented?

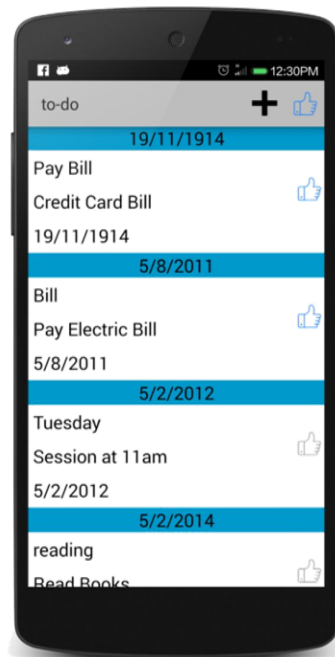
5.1.1 TO-DO Database : Create table with following entries.

```
KEY_ID ---> INTEGER PRIMARY KEY
KEY_TITLE ---> TEXT
KEY_DESCRIPTION ---> TEXT
KEY_DATE ----> TEXT
KEY_STATUS ----> INTEGER
```

Here KEY_STATUS will store value 0 by default whenever new task will be created marking the new task as incomplete.

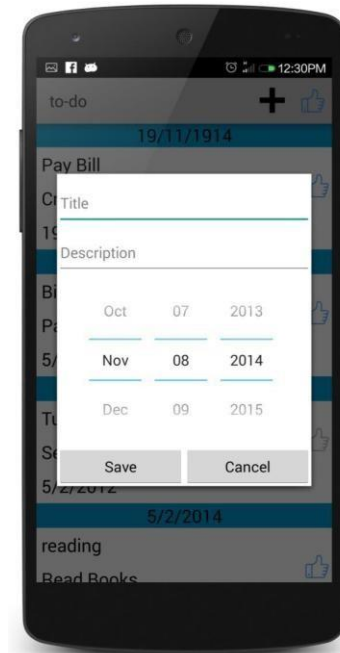
5.1.2 TO-DO List screen

- a. Activity should extend the AppCompatActivity class.
- b. The layout should have a ListView in the XML and the same XML page should be set as the content View in the onCreate() method.
- c. Each list item will have 3 TextViews and an ImageView.
 - I. TextView 1: For the Title of the To-Do Task.
 - II. TextView 3: Description of the To-Do Task.
 - III. TextView 2: Timestamp or due date of the To-Do task.
- d. The entire list item should be sorted in ascending order based on the due date of each task.



5.1.3 Create options menu and dialog

- a) Two menu items has to be created and these items have to be placed on the ActionBar.
- b) Upon click on the Add item (plus icon) a dialog should pop-up asking for the details from the user.



- c) The above dialog should contain two EditTexts, a DatePicker and two Buttons.
- d) The EditTexts should at least have a minimum characters entered (Validation has to be taken care).
- e) Upon click on save button the details has to be saved to the database.
- f) Upon clicking on the list item, an AlertDialog box should be popped out with the pre-populated values of the list item clicked.
- g) If the changes are made to the list item and the same has to be reflected in the ListView with the database.
- h) Upon the Long click on the List Item, items have to be marked as the completed task "1" i.e. if in database the KEY_STATUS for that particular task is marked as zero and vice versa.
- i) Upon the click of second menu item a new Activity has to be displayed which will be having a task list of only completed tasks.
- j) In the completed task list activity you should be able to delete the task on long press.

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6. Expected Output

Not applicable.

7. Approximate Time to Complete Task

18 to 22 hours