

CS310 HW4: ViewModel

Using ViewModels to communicate between Activities

Due 28/04/2019 23:55

Description

In this step you are going to submit an Android Studio Project. You can use the solution for HW3 we have provided or you can use your own version of HW3 to start with. In this homework you will create a detail view and its activity for each reminder. Your project will consist of:

- Portrait and Landscape layouts for both views
- Activities for both views
- ViewModel classes for both views

The layout details are provided at the end of this document as images. Please refer to the images and the metrics below them when creating your layouts. You may use constrained and/or linear layout.

Expectations

In this homework we will be expecting an Android project, that has a **two activities** and the corresponding **layout files**. The layout files will be content for the the activities, which will populate the screen based on orientation. Hence there will be 2 layout files for each activity, one for the **portrait** mode and the other one for the **landscape** mode.

Given

You are free to use either the solution for HW3 provided by us (You can find it under SUCourse => CS310-201802 => Announcements => Assignment 3 Solution) or you can continue on your own code that you submitted for HW3.

You are given a list of events that will take place in the near future, and you wish to be reminded when time comes (hence you make the reminders app). The list is given in a text document in form of an array in the **HW3 documents**. You have to copy and use the array in your application.

Required

In this assignment you are going to create a view to show and edit the details of any reminder item. Once the user taps on any of the reminders from the recycler view, your application should show this new view with the details of the selected reminder item.

Each field in this view will be editable and once the user saves and/or clicks the back button you should update the reminder item and refresh the contents of the recycler view.

You should develop:

- ☐ Landscape layout for the recycler view
- ☐ Portrait and landscape layouts for the detail view
- ☐ Activity for the new view
- ☐ View Model classes for both activities
- ☐ Event handlers
- ☐ Share, update, save data across both views
- ☐ Detail page should gracefully handle configuration changes and system kills without losing state.
- ☐ Master (list) page should keep its state intact with configuration changes, but you are not required to handle system kills in this page.
- ☐ You should not keep multiple instances of any activity in the backstack. (e.g., when the user presses on the back button several times in a row, she should not come back to the same activity again.)

At the end of the document you can find the image for the layout.

Submission

You will have to upload a **ZIP file** of your project folder to SUCourse. Please **name your document** as SUUsername.zip.

Ex: Contents of /.../appName/

Just before zipping your project, remember to clean your project.

The deadline is **Sunday, 28th of April 2019 23:55 (11:55pm)**

Scroll to the next pages for the layouts

Title

Description

Set date

April 2019

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Item 0



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Item 1



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Item 2

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April 2019

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