

# Homework 5: Fragment, ViewPager, and Master/Detail Flow

Due Friday, 2/20 @11:40am

**Submission Requirement:** Same as the previous homework.

**Look and Feel (15 points):** The quality of your UI will be evaluated in this homework. This homework will use the RecyclerView that you built in the previous homework, and you should feel free to remove things that are not needed for this homework (e.g. the 3 buttons at the top can be removed, because they do look ugly).

- **Note:** The look of the UI in Task 1 and 2 will only be judged using Nexus 4, so you don't need to worry about supporting phones/tablets with a larger screen (in the real world, you have to do that). The look of the UI in Task 3 will be judged using Nexus 4 and Nexus 10.

**Task 1 Front-page Activity (25 points).** Starting from this lab, we are going to use another navigation scheme to allow the TA to go to each of the tasks. In the last few assignments, we have been using the menu on the Action Bar for our navigation. In this assignment, we will use buttons. You need to build an Activity (called front page), which loads a default fragment. The fragment contains the following buttons (you decide the layout and feel free to add other decoration items):

- “About me” button: when it is clicked, your “about me” fragment will be loaded.
- A button for Each Task: when it is clicked, the Activity for each task will come up.

**Task 2 ViewPager Activity (30 points):** Create an Activity that holds a ViewPager. Each page of the ViewPager is a fragment that displays the details of a movie. Users can swipe left or right to go the previous or next movie. The details fragment should contain at least the following information: *image, title, year, director, cast, rating, and description*. You can decide your layout. This page will be used several times in this assignment and future assignments, so it is worth your time to make it look nice. You also need to implement the following:

- Add a TextView to your details fragment; when the TextView is clicked, it displays “The TextView is clicked N times”, N is the number of clicks. When the user navigates away from a movie page, and later comes back, the value N should still be kept there (can't be reset to zero). You can only use `FragmentStatePagerAdapter`. You cannot use `FragmentPagerAdapter`.

**Task 3 Master/Detail Flow Activity (30 points):** Create an Activity, which initially loads the RecyclerView fragment that you build in the previous homework. When a row is clicked, your app should behave like the following:

- On Nexus 4 (or phones with a small screen), the fragment showing the details of the movie will be loaded into the same activity, replacing the RecyclerView fragment. When the “back” button of the phone is clicked, the RecyclerView fragment will come back.
- On Nexus 10 (or tablets with a large screen), the fragment showing the details of the movie will be loaded into the same activity, but both the RecyclerView fragment and the detail fragment will be shown side by side.