Homework 4: RecyclerView

Due Friday, 6/19 @9:00am

Submission Requirement: Same as the previous homework.

Look and Feel (20 points): The quality of your UI will be evaluated in this homework.

Task: RecyclerView (80 points): Please load the movie data into a RecyclerView. Each row of the RecyclerView should contain at least the following information: the image of movie, title, description, rating, and a CheckBox. You can design your own layout. There should be three buttons above the RecyclerView (see Figure 1). You need to implement the following functionalities:

a) (20) Get the RecyclerView to work; each row should be a CardView. The movie data should be loaded from a json file (images can still be loaded from the drawable resource folder). I will not provide the json file to you, because you already have all the movie data in your database; you should be able to create a json file on your own using your php code. Store the json file in the "asset" folder of your project (you may need to create the asset folder first, if it does not exist).

b) (5) When the CheckBox is clicked, its status will be toggled. However, when the row is clicked, the CheckBox will not be toggled; this is different from the previous homework.

c) (5) When the "Select All" button is clicked, all the CheckBoxes will be checked. When the "Clear All" button is clicked, all the CheckBoxes will be unchecked.

d) (5) When the "Delete" button is clicked, all the selected movies will be deleted from the list. Users should be able to see the animation effect.

e) (10) When a list item is long clicked, that item will be duplicated and placed right below the current item (i.e., a new movie item with duplicated content will appear). Users should be able to see the animation effect.

f) (10) When the phone's orientation changes, the selected movies should stay selected.

g) (10) The movies with 8.0 rating and above should have a different layout than those below 8.0. For example, for the above-8.0 movies, the image is placed on the left, but for the below-8.0 movies, the image will be placed on the right. Their layout files should be different (Figure 1 does not show such a difference).

h) (15) When a list item is clicked, a new fragment containing the details of the movie will be loaded (see Figure 2 for example).
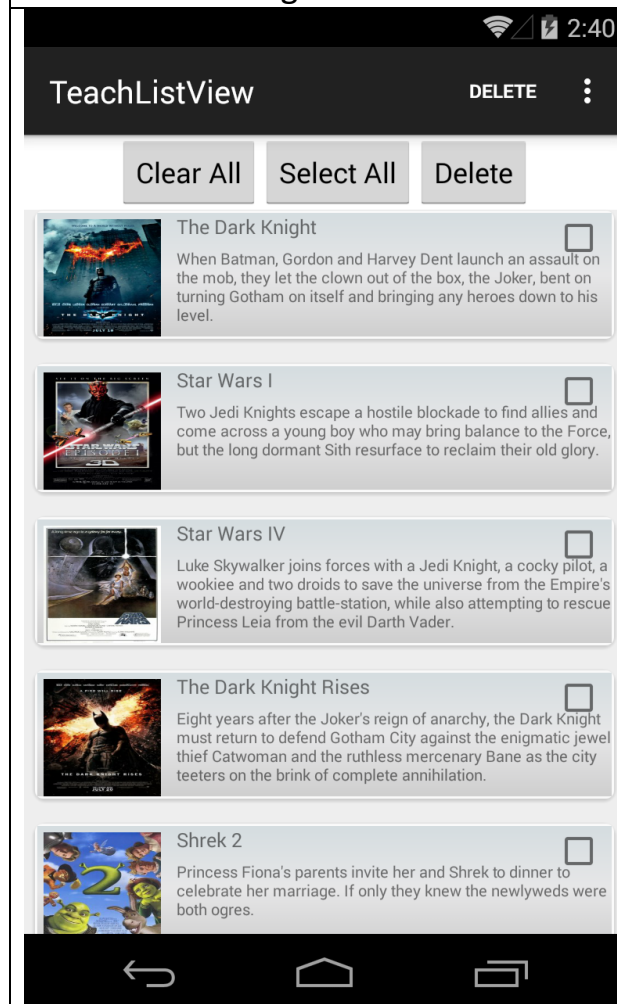
Figure 1	Figure 2