

# Homework 4: RecyclerView

Due Friday, 2/13 @11:40am

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

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

**Task 1 RecyclerView (80 points):** Please load the movie data that we provide to you 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.
- 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) (5) When a list item is clicked, a Toast message will display the name of the selected movie.
- g) (10) When the phone's orientation changes, the selected movies should stay selected.
- h) (20) 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).

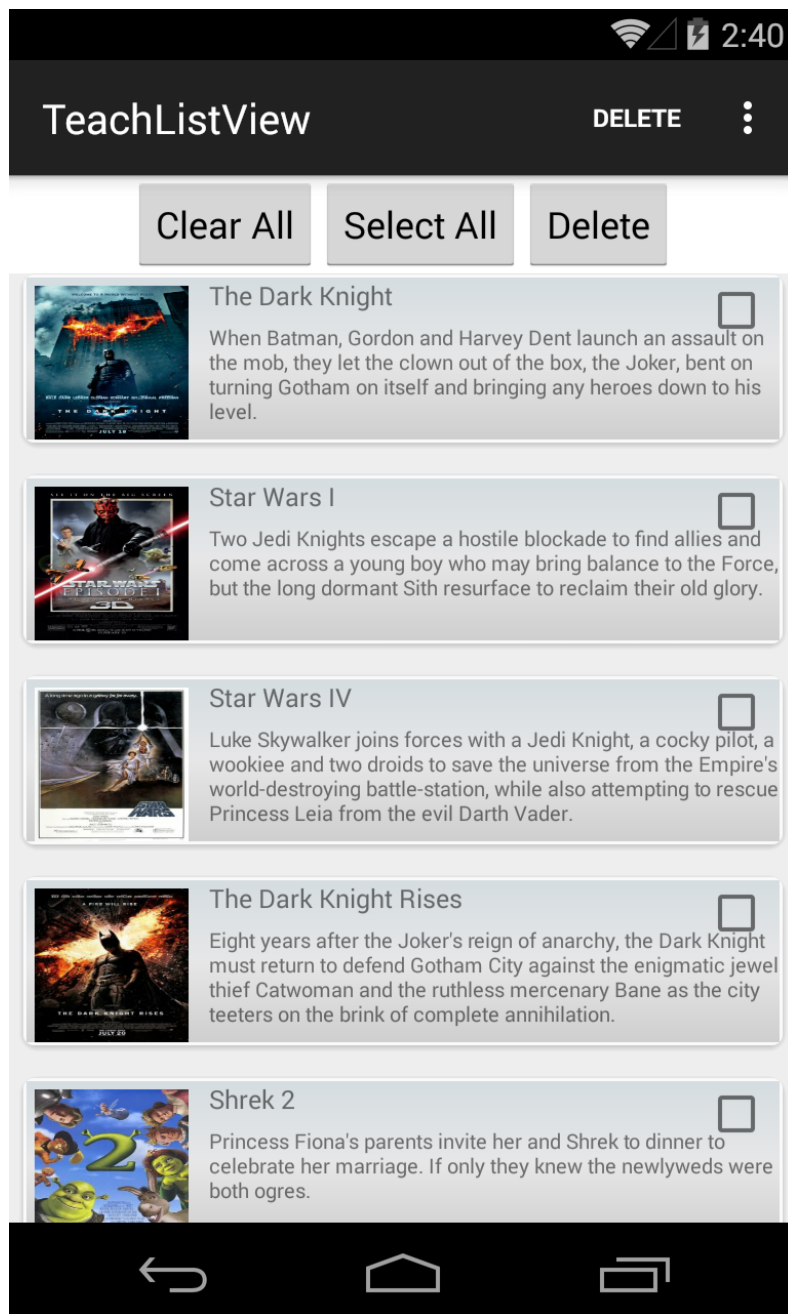


Figure 1