**Due for CIS600 students: 2/17, 10% penalty by Monday after due, and 20% penalty by Tuesday. (No late submission will not be accepted after Tuesday)**

**Due for CIS400 students: 2/20, 10% penalty by Tuesday after due, and 20% penalty by Wednesday. (No late submission will not be accepted after Wednesday)**

**Look and Feel (15 points):** The quality of your UI will be evaluated in this homework.

**Task 0: Front-page Activity (5 points).** You can reuse the one built from the last homework. You need to build an Activity (called front page), which loads a **front-page Fragment.**Inside this Fragment, you need to have the following buttons (you can 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. You need to change the orientation of your device to check whether it works properly.
* A button for Task 1: when it is clicked, the corresponding **Activity** will come up (same operation with the menu on the Action Bar or App Bar).

**Task 1 (80):** 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 **four buttons** above the RecyclerView. You need to implement the following functionalities:

1. (20) Get the RecyclerView to work; each row should be a CardView.
2. (5) When the CheckBox is clicked, its status will be toggled. However, when the row is clicked, the CheckBox will not be toggled.
3. (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.
4. (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.
5. (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.
6. (10) When a list item is clicked, a Fragment will be loaded into the current activity, displaying the details of the selected movie.
7. (5) When the phone’s orientation changes, the selected movies should stay selected.
8. (10) When the "**Sort**" button is clicked, all movies will be sorted by the year (the most recent movie should be the top of the list). The top 5 movies and the bottom 5 movies should have different layouts from other middle movies (There should be 3 layouts for each group).
9. (5) Try an Item animation from wasabeef library <https://github.com/wasabeef/recyclerview-animators>
10. (5) Try an adapter animation from wasabeef library