CSC 214 ASSIGNMENT 06

The goal of this assignment is to practice with ListView, RecyclerView, ViewPager, and DialogFragment.

Assignment Instructions

1. Create a `model` package under your main application package to contain your model. The model should contain a class of your own design that will be used in a list. The item should represent real world objects that have at least 3 attributes (such as a name, a number, a date, or other data). Some examples may be songs, books, movies, videogames, comics, or any item that might make sense displaying in a list. Each item should contain a "description" attribute that is meant to be several sentences of text (too much to display in a list). In addition, your model should contain a class that manages your items and can create and return a list of your items. The list should contain at least 20 items. Refer to the `mobappdev.lecture12.model` package in the Lecture 12 project on github for examples.

2. Create a `ListFragment` that contains a `ListView` and uses your model to create and display a list of your items. The onCreate method in your ListFragment will need to create and set a `ListAdapter` used to make custom views to represent the items in your model The views in the list should **not** contain the long description of each item. You may use an `ArrayAdapter` and the default `TextView` that is returned by the `getView(int pos, View view, ViewGroup parent)` method. Finally, whenever the user taps an item in your list, show a `DialogFragment` that displays detailed information about the item, including the full description.

3. Create a new `RecyclerView` that displays the same items as the `ListFragment` in part 2. Make sure that the `RecyclerView` is visually distinct from the `ListView` created in part 2 (e.g. change the background color or layout of the views displaying list items). Tapping an item in the `RecyclerView`'s list should also display a `DialogFragment` with detailed information about the item. Add an entry to your README that briefly explains the advantages of using a `RecyclerView` rather than a `ListView`.

4. Create a main activity that, by default, displays the `ListFragment` created in step 2. Use a ViewPager to allow the user to swipe from the `ListFragment` to the `RecyclerView` and back again.

HAND IN

Before handing in, create two additional files in your lab directory:

1. Create a README that contains the following:
    a. Your contact information, TA name, and assignment number.
    b. A brief (one paragraph at most) description of the assignment.
2. Create a directory titled "SampleOutput." This directory should contain:
    a. A file called "logs.txt" that contains examples any relevant logs generated by your application. Remember to use LogCat filters to show *only* your log messages before copying them into the file.
    b. Screenshots (in PNG or JPG format) taken from an Android Virtual Device that show examples of your application's user interface.
3. Name your file using your last name and the assignment number. For example: "stjacques_assignment01.zip". This makes it easier for the TAs to organize when grading multiple students.

Hand in by uploading the compressed (i.e. "zipped") folder containing your Android Studio project and the required additional files to Blackboard. Remember that **late submissions are not accepted**.