

Cosc 5/4735
Due: January 23, 2022

Program #1
50 points

Write the following phone app. The goal is use material design and widgets. Also, refresh everyone on github and Android Studio.

PROGRAM REQUIREMENTS:

You are to write an app that displays information from the model (data) code. You are required to use the class as is, without modification. You are required to use a drawlayout with the continents listed via a NavigationView widget. As you select the different continent, then the main display will show a list of countries for the selected continent. You will also use the FAB to add a new country to the continent that is currently showing. If you the user clicks on the country name, then is will show a Toast or Snackbar with the country name.

In the main display, you must use a RecyclerView (you can embed it in default fragments if you want to, but you are working harder than necessary). I would suggest using a cardview with recyclerview, if you have not used it before, but it is not required.

Lastly, you will be required to use a ViewModel to hold the data. This is where the CountryData will be declared, not in the MainActivity (or fragments).

Notes:

0. CountryData.java is to be included in your project and used as provided. You can add the package information, which is required by studio.
1. Required widgets: drawlayout, NavigationView (used by the drawlayout), recyclerView, FAB (Floating Action button). Everything else is up to you.
2. You do not need to use any fragments to complete this assignment. You can put all of it in the main activity. fragments are fully optional and make this project more complex.
3. Use a viewmodel to hold the CountryData variable. I would suggest, but not required it also use the livedata, especially if you have never used them. When the user clicks a continent in the NavigationView, it will change a value in the viewModel that will then kick start (via observers) the change to the recyclerView.
4. When you add a new country to a continent, it will show again, when you click that continent. You can use dialogfragment or "inline dialog", which could add data to the modelview (assuming liveData) which would, of course, update the recyclerview via the observers.
5. You may find the following example code useful: supportdesigndemo, livedatademo, androidviewmodeldemo, modelviewrecyclerviewdemo, dialogdemo.

TURN IN and GRADING:

Soft copy:

1. Use this link to create your repo: https://classroom.github.com/a/4_0lp_5H
 - a. Note, there are necessary files in the repo, so create it first to get the files.
2. Upload your project to your repo.
3. Edit the readme.md file, add the following:
 - a. Course number 5735 or 4735
 - b. Name
 - c. How to run the program.

- d. Which phone/emulator to run on including special information like android version (ie v4.4) and screen size.
 - Or if you are using the borrowed a phone: pixel 4a, etc.
4. Lastly ensure everything has uploaded to the GitHub website and not just the local repo.

Code will be graded on correctness, comments, and coding style.