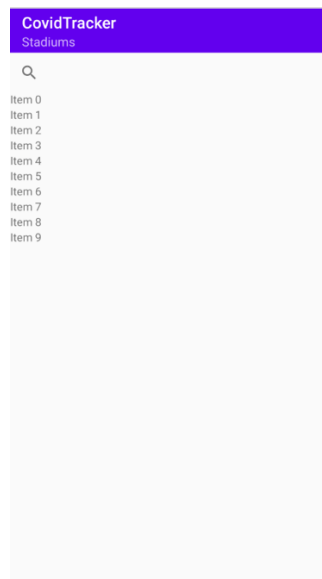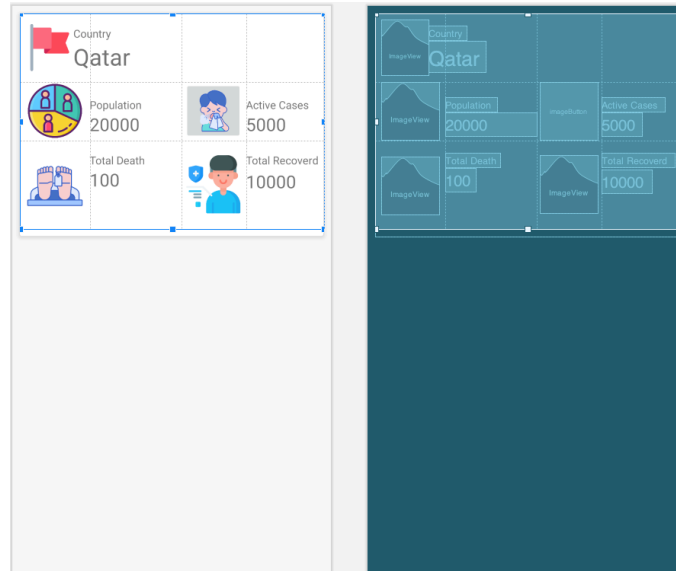# CMPS 312 Mobile Application Development
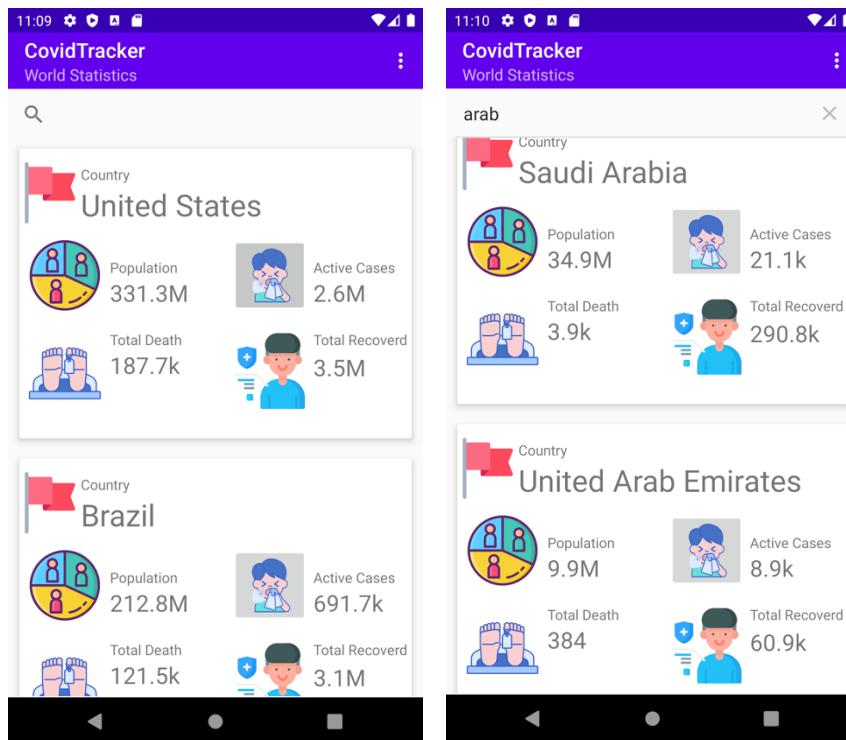# In-Lab Assessment 2

1. Sync Lab GitHub repo and copy **Assessment2** folder into your repository.
2. Open the project ***CovidTracker App*** in Android Studio.
   The project has the following folders and files:
   a. **layout**: the activity layout
   b. **drawables:** images needed for this app.
   c. **assets:** has **covid-stats.json**
3. Create **CovidStats** data class to hold covid stats data as described in the json file.
4. Create object named **CovidStatRepository** which has a single property **covidStats** of type list. Add an **initCovidStats**(context:Context) function to read and parse the data from covid-stats.json provided under the assets folder. The data should be loaded into **covidStats** list.
5. Open **activity_main.xml** layout file and add a **RecyclerView** and set its id to **covidStatsRv**.
6. The activity layout design should look as shown below. [hint: you can use 'Set sample data' to load some test data to **RecyclerView**]

7. Create **list_item_covidstat.xml**l layout resource file that has the following design. This layout will hold the data that

8. Create **CovidStatsAdapter** class to provide the **CovidStatsViewHolder** and to display it in a covidStats details.

9. Modify the **MainActivity** to connect the **covidStatsRv** with the **CovidAdapter** and set the RecyclerView adapter and the layout manager to use a Linear Layout.

10. Modify the main_activity layout to add a SearchView. Implement the search to filter the covidStats based on the country name entered in the search box.

11. Add a **Toolbar** with 4 menu options to allow the user to sort data using country, active cases , population and total death. See images below