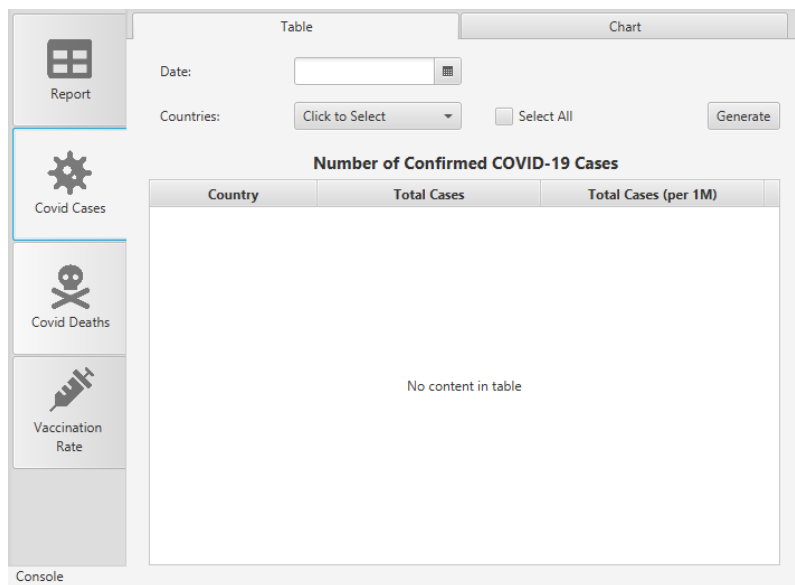Team 24
De Covid
Supplementary Document

Features beyond basic requirements
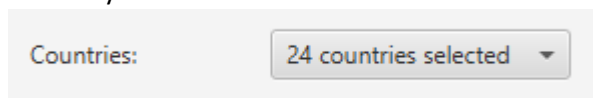
General features

Improved UI

We created a side bar with icons to increase the cognitive ease for users to find the topic that they want. These icons are easily recognizable and makes it easier than reading though text. Also in the original design, the tabs are labelled with "taskA1", etc, which makes it hard for user to know which task represent which content. However this new layout can provide more context to the user.

Country picker with dynamic text

To let user know that the system can receive their input in the country drop down list, instead of displaying a static text on the country picker, every time the drop down menu collapse, we have made a function for it to update its text. So everytime the user finish selected countries, they will we the country picker displaying the right number of countries that they have selected.

Prioritized Countires

To let the user easily find the countries that are commonly queried. We chose 9 countries that are queried frequently and put it to the top of the drop-down list. While other options are sorted in alphabetical order.
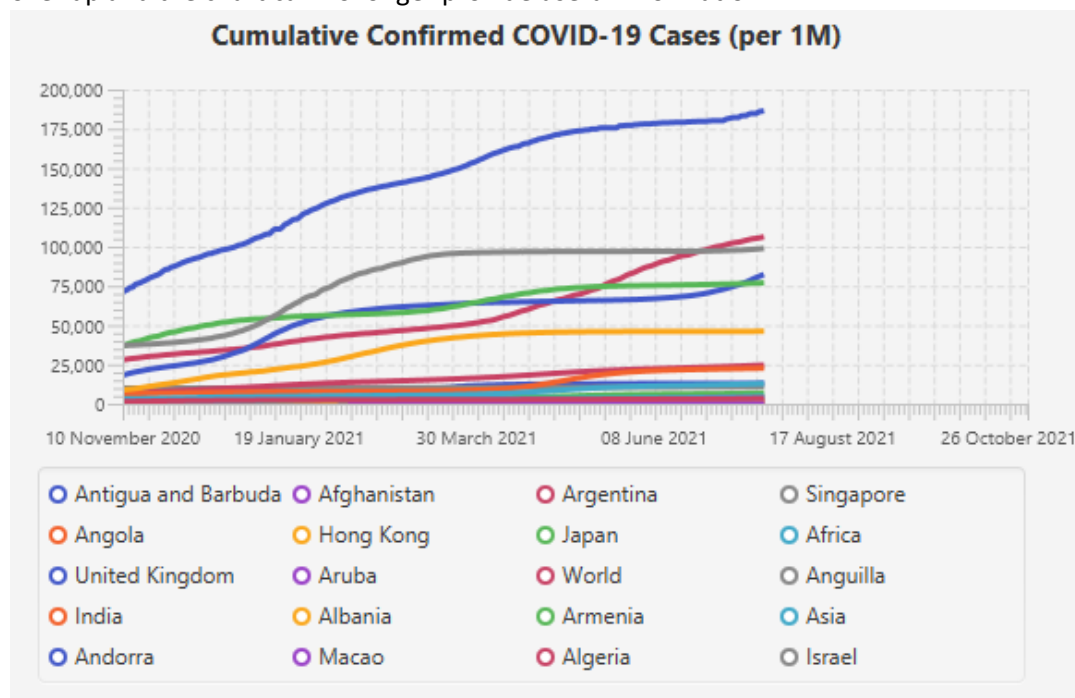
Task 1

"Select All"

We know that sometimes the user would want to inquire all countries' covid data, but clicking through over 100 checkbox would give an awful experience. Therefore we made a "select all" button. Once the button is clicked, the country picker will be disabled and the "generate" button will give a table will all countries' data.
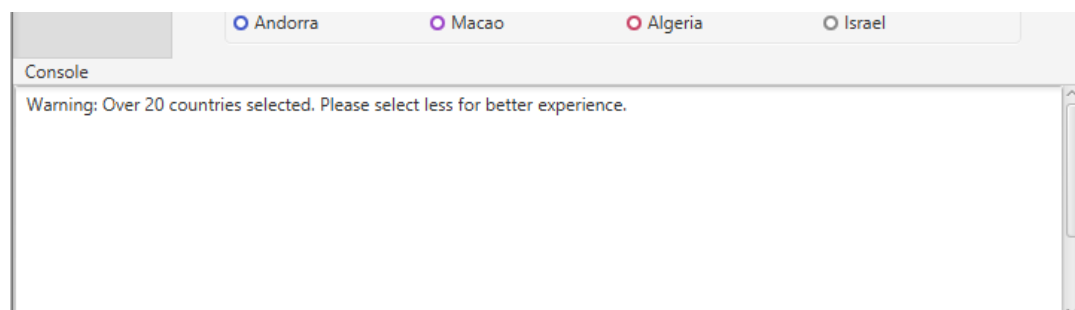
Task 2

Country selection limit

We noticed that as the number of country selected increase, the lines in line chart starts to overlap and the chart can no longer provide useful information.

To ensure the user can always enjoy a good user experience, we set a limit on the number of country that the user can select. We set the limit at 20 countries and if the number of countries exceeded that, we will give a warning message to the user for them to reduce the number of countries.

Guide in reading through source code

Packages in main/java/comp3111

1. Covid
   The Core algorithms of the software

2. covidEntity
   Objects for data parsing. As the software read through the dataset, each record in the dataset will be parse and it's data will be stored in these objects

3. tableColumns
   Objects for storing the data of a row in a table. They are used for populating table in ui.

Country selection filter

UI: implemented by a dropdown list (MenuButton)
algorithm: please see controller.java. the drop down list is initialized in initialize(), and grabbing the selected countries from the drop down list is implemented in each function that populates chart or table. (for example submitTableA())

Input validation

Please see tableInputValidate() and chartInputvalidate() in controller.java.

x-axis and y-axis label

please see initialize() in controller.java for y-axis and xAxisLabelFactory() for x-axis.