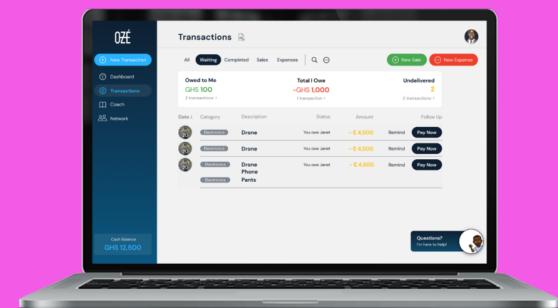


COVID-19 Country Level Statistics

A Shiny Web Application Project



Steps



1. Background with Shiny
2. App Overview
3. Aim of Project
4. Data Source and Cleaning
5. UI and Server
6. Challenges

Background

1

Undergraduate
Years

Projects

Learning
Sources

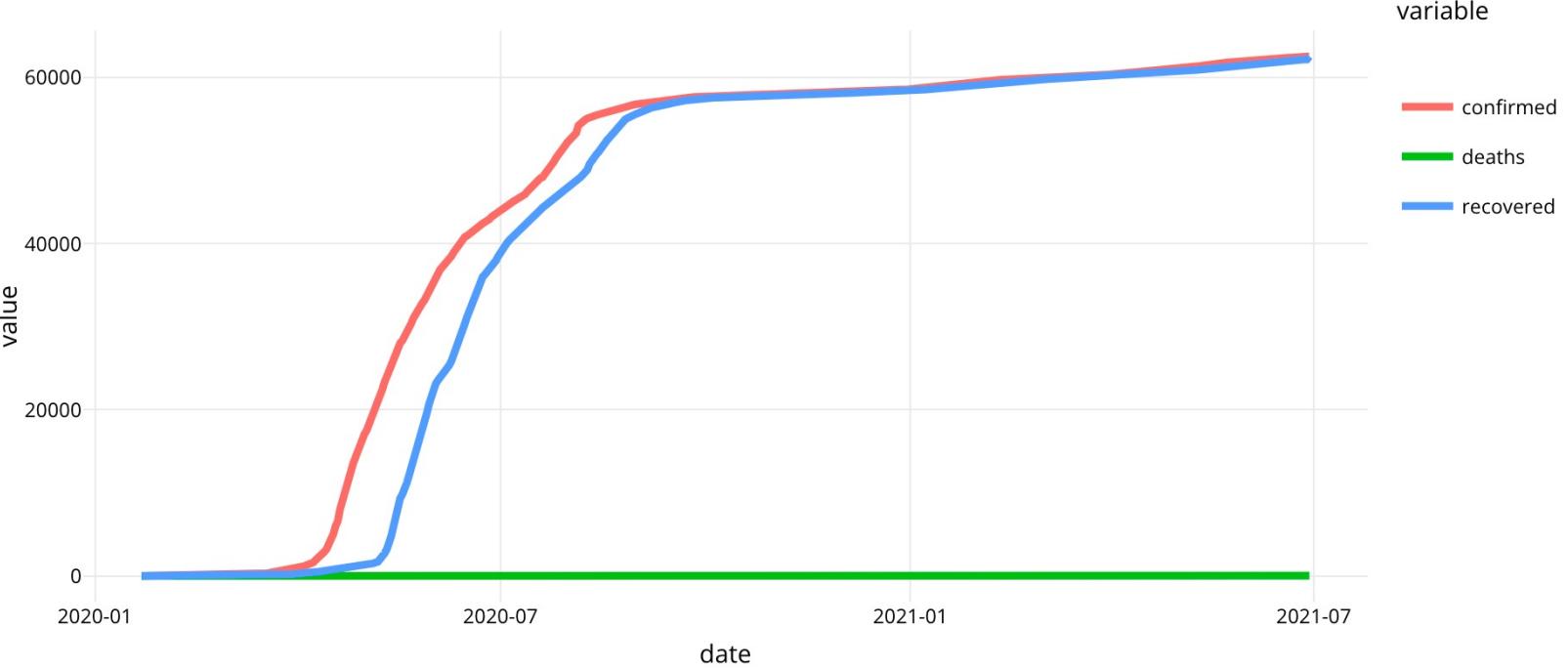
App Overview

2

COVID-19 Map w/Country-level Data

County-wide Statistics

Tabular Data



Use the widget below to reactively generate the plot elements.

Select a Country

Singapore

Observation Period

2020-01-01

to

2021-06-30

Smoother?

Plot Title

Download Plot

App Overview

2

COVID-19 Map w/Country-level Data

County-wide Statistics Tabular Data

Show 10 entries Search:

	date	country	confirmed	deaths	recovered
43	2022-01-26	Singapore	327602	850	0
40	2022-01-25	Singapore	322770	850	0
37	2022-01-24	Singapore	316774	848	0
34	2022-01-23	Singapore	313772	848	0
31	2022-01-22	Singapore	310276	847	0
28	2022-01-21	Singapore	307813	846	0
26	2022-01-20	Singapore	297549	845	0
22	2022-01-19	Singapore	296077	844	0
20	2022-01-18	Singapore	294462	843	0
18	2022-01-17	Singapore	293014	843	0

Showing 1 to 10 of 736 entries

Previous 1 2 3 4 5 ... 74 Next

Use the widget below to reactively generate the plot elements.

Select a Country

Observation Period to

Smoother?

Plot Title

Download Plot

Work with Shiny

3

Aim of Project

Data Visualization

COVID-19

Data Source for Project

Centre for Systems Science and Engineering (CSSE) at Johns Hopkins University

Time Series data on Deaths, Cases, Recoveries, for over 200 countries

	date	country	variable	value
180140	2022-01-07	Monaco	deaths	4
181366	2022-01-07	Dominica	deaths	47
237378	2022-01-07	New Zealand	deaths	51
255803	2022-01-07	Sao Tome and Principe	deaths	62
219690	2022-01-07	Liechtenstein	deaths	71
185788	2022-01-07	Eritrea	deaths	80
253592	2022-01-07	Saint Vincent and the Grenadines	deaths	84
162204	2022-01-07	Brunei	deaths	98
168837	2022-01-07	Central African Republic	deaths	101
255066	2022-01-07	San Marino	deaths	103
148201	2022-01-07	Antigua and Barbuda	deaths	119

4

Data Cleaning

4



Reading and Manipulating



Wide Data to Long Format



Tidyverse

Packages and Processes

Shiny,
shinythemes,
plotly,
dplyr

3 Files Used in
Project

UI and Server

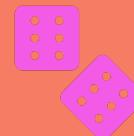
Drawbacks & Improvements



Plotly



Server Building



Data Cleaning and
Manipulating



Bug