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**Polytechnic University of Puerto Rico**

**Electrical and Computer Engineering & Computer Science Department**

**COE 4002-39: Capstone I / CS 4002-49: Computer Science Project I**

**SP-21 / Prof. Othoniel Rodríguez**

**USER MANUAL:**

Covid-19 Data Visualization and Analysis

|  |  |  |
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USERS MANUAL COVID-19 DATA VISUALIZATION WEB APP

The following user’s manual will guide the user through the configuration and testing of the Covid-19 Data Visualization web application. This guides explain to the user how to access all the features of the application as well how to use every feature in the application. Moreover , if a developer wants to modify the application the necessary steps for the installation of the minimum requirements will be discussed. This will also include procedure for reaching the main directories of the application and start editing the web application.

## REQUIREMENTS

For editing or adding new components to the web application is necessary to have installed the requirements mentioned in the following section. This will ensure that all the components in the application are executed correctly , preventing bugs or errors in the system.

### Developer Requirements

The minimum requirements for the configuration of the web application are the following:

* VSCode (or preferred)
* Node.js version: 14.17.0
* React.js version: 17.0.2
* Chart.js
* JavaScript

### User Requirements

The minimum requirements for the use of the application are the following browsers:

* + Google Chrome(Recommended)
  + Mozilla Firefox
  + Microsoft Edge

# 

## Administrator Guide for Configuration

### Initial Configuration and Installation

1. First open your VSCode ( or selected text editor or programming environment) and click below start on Clone Git Repository.

Graphical user interface, text, application

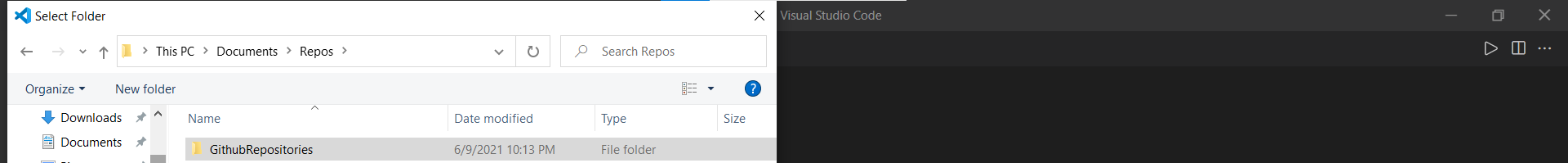
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1. Then go paste this direction for clone the application: <https://github.com/dcanalsPoly/Capstone.git> and click “Clone from URL”

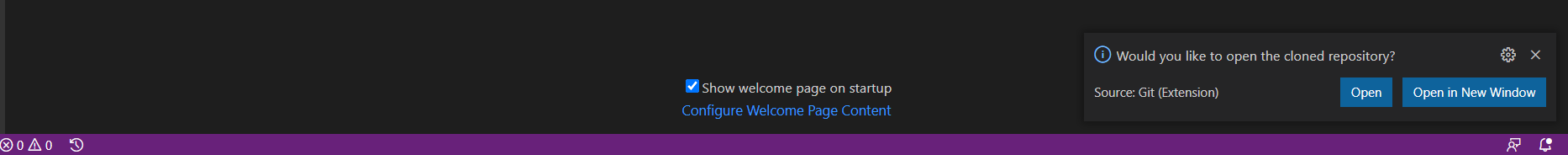
A screenshot of a computer

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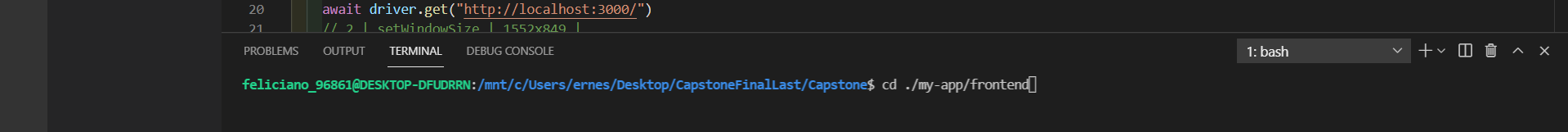
1. Create a new folder in your computer for saving the project with an arbitrary name and click on “Select Repository Location”



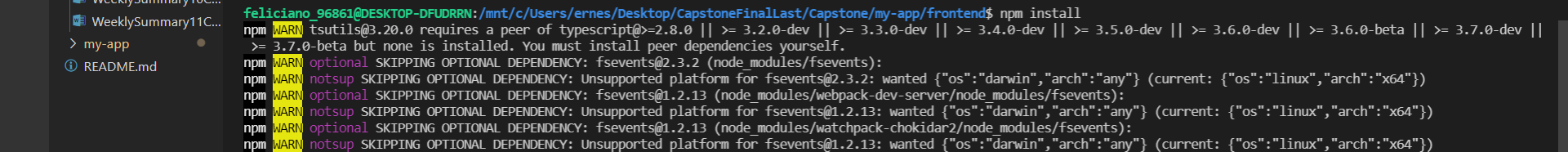
1. Then click “Open”



1. Once the application is open in the command line interface write the following command: **cd ./my-app/frontend**



1. Once in the frontend directory use the command : **npm install** . This will install all the libraries and dependencies required.



1. After this process is completed, the user can be edit the application and add new components in the directories of frontend and backend. Were the files of CSS , HTML , JS and Json are available.
2. For starting the application and verify the changes use the command : **npm start**

## User Guide : Navigation and use of the Web Application

### Navigation:

1. Open your browser in the following IP address : [**http://18.118.13.131**](http://18.118.13.131)
2. Go to the drop-down list at the right of the web page and click the down arrow and select a country.

Graphical user interface

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1. Once a Country is selected view the “Totals Up to Last Week” and the “Totals Up To date” for that country at the top left.

Graphical user interface, application

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1. Scroll down the webpage and view the 4 plots available for the selected country.

Chart

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1. Go to the desired plot and decide the view of the plot by clicking on “” and select linear graph or bar graph ( the default is line graph).

A picture containing application

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1. Go to the desired plot and decide the user view by clicking the “” and select between Deuteranopia and Tritanopia.

Diagram

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1. Move through the application using the Navigation bar at the top and go to different sections by clicking on the names.



### Countries Summary Table :

1. To view numeric information, scroll down to the table “Summary of Totals” and view the different statistics for each country presented.

Graphical user interface, application

Description automatically generated

1. The table can be sorted by country by going to the column table country and click on the arrow .

Graphical user interface, application

Description automatically generated

1. One click will change the names of the countries displayed from A to Z and another click will change it to Z to A

Graphical user interface, application

Description automatically generated

1. Sort the column Confirmed in Ascending order by clicking the arrow next to “Confirmed” title this will change from descending order to ascending order the cases.

Graphical user interface, application

Description automatically generated with medium confidence

1. Sort the column Deaths in Ascending order by clicking the arrow next to “Deaths” title this will change from descending order to ascending order the number of deaths.

Graphical user interface, application

Description automatically generated

1. Sort the column Recovered in Ascending order by clicking the arrow next to “Recovered” title this will change from descending order to ascending order the recovered people.

Graphical user interface, application

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### Report an Error :

1. To report an error scroll down to the bottom of the web page or go to the navbar and click “Report”.

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1. Once in the report section select the type of error by clicking the dropdown list that has per default “ Data error” and select the error type.

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1. Next complete some information about the error that was found. Click on the white box to enable the cursor and start writing.

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1. Click the submit button at the end of the page and it will send the error.

Rectangle

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