

**Polytechnic University of Puerto Rico**

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**WI-20 / Prof. Othoniel Rodriguez**

**Covid-19 Data Visualization & Analysis:**

Software Requirements Specifications (SRS)

Version 2.0

|  |  |  |
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# Introduction

In the following parts we will list every of our user stories with the member that will be working/implementing it. Then we will discuss the Client Role in Involvement with the project, which is substantial and very important for the end product. After this, the detailed user stories come up, which are a more complete version of each story, not only talking about the user acceptance tests (scenarios), but also about its workflow, data requirements and wireframe, to really get an idea of how each one will be implemented. And finally, a series of non-functional requirements that will specify some other details.

# User Stories

The following table presents the user stories that denote the functions of the application.

## Table 1: User Stories and Priority Levels

|  |  |
| --- | --- |
| Team Member | User Story |
| Ernesto | As a user I want to view a weekly summary of cases, deaths and recovered people so that I can review the data. |
| Ernesto | As a user I want to view a summary of cases , deaths and recovered people by day so that I can review the data. |
| Ernesto | As a user I want to have a view of 4 plots of each given country in the same page. |
| Ernesto | As a user I want to select from a drop-down menu different countries so I can view the data of each country |
| Ernesto | As a user I want to view the cases of recovered people, active cases, confirmed cases and number of deaths of a given country and see them as a bar plot. |
| Jose | As a user I want to hover above a graphic and highlight a specific data point on the timeline to see data for that sample. |
| Jose | As a user I want to search total deaths for a time period so that I can review the data. |
| Jose | As a user I want to search total cases for a time period so that I can review the data. |
| Jose | As a user I want to report an error in the system so that it can be fixed. |
| Jose | As a user I want to verify the references of the data showed so that I can also verify it. |
| Elias | As a user I want to enable a colorblind mode through a button of a graphic so that I can see different colors on the graph. |
| Elias | As a user I want to be able to sort the countries name in the table summary in descending and ascending order. |
| Elias | As a user I want to change the selected graphic from bar plot to a line graph so that it can be visualized differently. |
| Elias | As a user I want to change the current graphic through a button so that I can view a different graph. |
| Elias | As a user I want to be able to download/embed a given graph to another website to share the data. |
| Diego | As a user I want to sort the table of Summary Totals by Cases Confirmed , Deaths and Recovered in ascending and descending order. |
| Diego | As a user I want to be able to see points in the xy scattered plots where the information is visible as numbers. |
| Diego | As a user I want to select specific age ranges on a graph to view data for that range. |
| Diego | As a user I want click on the option of graphs in the navbar and go to the graphs section. |

# Client Role Involvement

* The client, Danilo Pérez, has provided valuable information that will be vital to this project. He worked with the team as a source of knowledge in this area, also gave a list of APIs and a small sample code on how to make the call and how to manage it. Later, he also communicated us with Elvis Nieves, the Principal Developer of Bioportal. Elvis Nieves, mentioned which endpoints are available and pending to add, like for example the vaccine data. With all this information available the user stories where created based on the available data of the APIs.

# Detailed User Stories

* The following section will present detailed information regarding the user stories available at Table 1. Also, will provide a handmade drawing of each user story with the respective user scenario.

## User Story

* As a user I want to view a weekly summary of cases , deaths and recovered people so that I can review the data

## User Acceptance Test

* **Scenario:** I want to view the summary of cases , deaths and recovered people

**Given** I am at the website Covid -19 Visualization & Analysis

**When** I go to the right and top of the webpage

**Then**  I can see the Weekly Updated Totals

## User Story Workflow

### Figure 1. Workflow for View Weekly Summary



## Data Requirements

* + A section in the web page for summary
  + The desired summary data calculated from the APIs
  + A division that clearly specifies the cases , deaths and recovered
  + A heading that establishes the title “ Weekly Updated Totals”
  + Variables that will hold the contents for each of the monthly summaries
  + A function that each months gets the data and actualizes it in the web page.

## Wireframe Template

### Figure 2. Wireframe of Weekly Summary

![A picture containing text, whiteboard

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4R7cRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA2OjAyIDEzOjM2OjUxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## User Story

* + As a user I want to report an error in the webpage so that it can be fixed

## User Acceptance Test

* **Scenario:** I want to report an error of a graph

**Given** I am at the top of the page

**When** I go to the bottom page

**And** Click the report button  
**And** Click the dropdown button

**Then** Select the error of a graph report  
**And** Describe the error in the text box  
**And** Click the report button

* **Scenario:** I want to report an error of the data of a graph

**Given** I am at the top of the page

**When** I go to the bottom page

**And** Click the report button  
**And** Click the dropdown button

**Then** Select the error of the data of a graph report  
**And** Describe the error in the text box  
**And** Click the report button

* **Scenario:** I want to report a specific error

**Given** I am at the top of the page

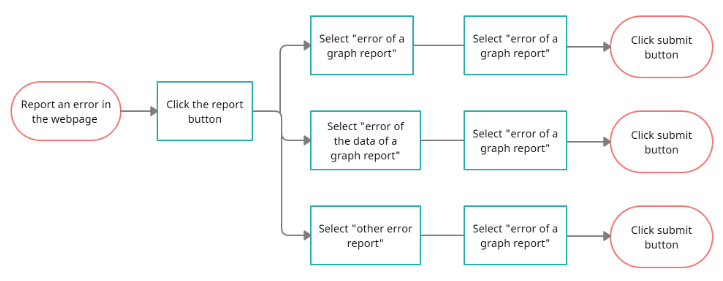
**When** I go to the bottom page

**And** Click the report button  
**And** Click the dropdown button

**Then** Select the other error report  
**And** Describe the error in the text box  
**And** Click the report button

## User Story Workflow

### Figure 3. Workflow of Error Report

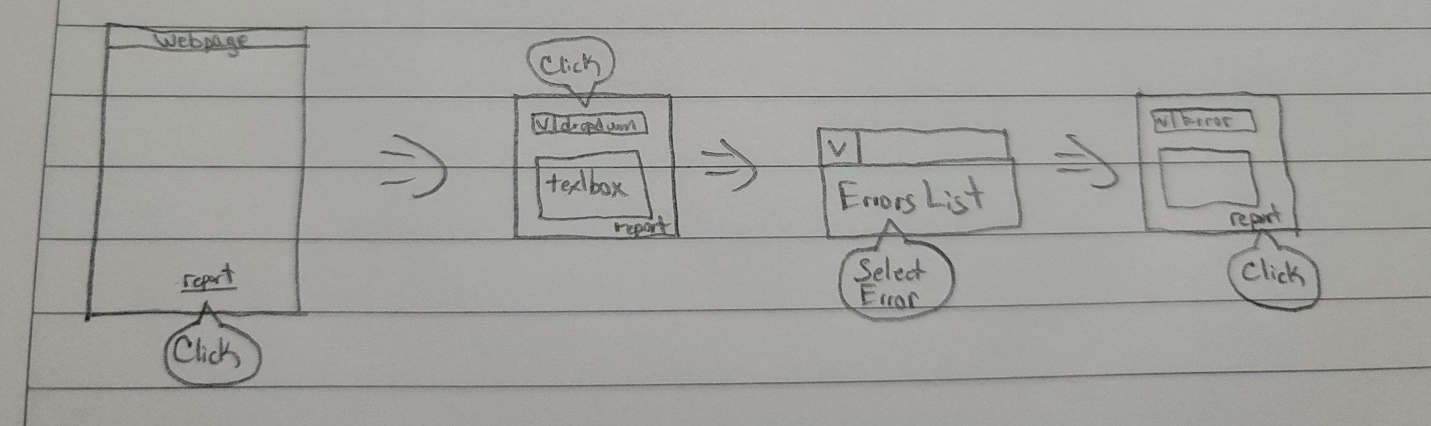


## Data Requirements

* + A report hyperlink to pop up the report form.
  + A dropdown button with three options. These will be error of a graph report, error of the data of a graph report and other error report.
  + A textbox so the user can describe the error.
  + A button so the user can submit the report.
  + A variable that will hold the strings of the text box.
  + This variable will be validated before the database to confirm that is receiving the values of the expected format.

## Wireframe Template

### Figure 4. Workflow of Error Report



## User Story

* + As a user I want to verify the references of the data showed so that I can review it

## User Acceptance Test

* **Scenario:** I want to see the references

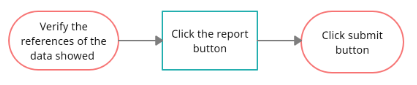
**Given** I am at the top of the page

**When** I go to the bottom page

**Then** Click the reference button

## User Story Workflow

### Figure 5. Workflow of Data References

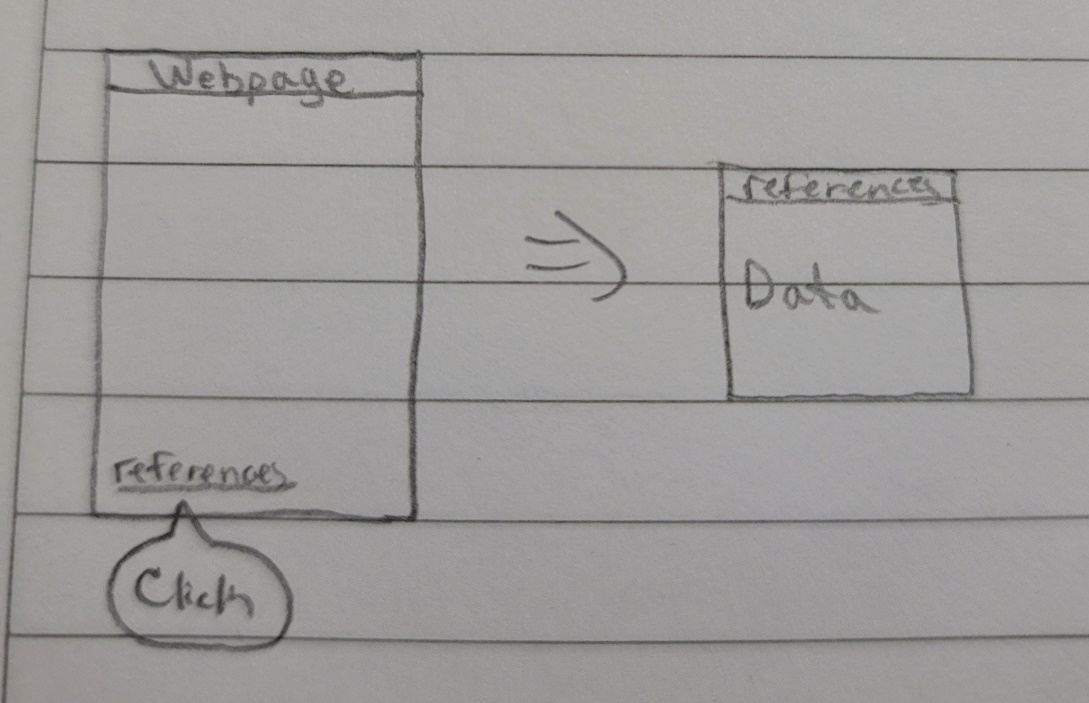


## Data Requirements

* + A reference hyperlink to pop up the reference form.
  + A form showing the references of the data.
  + Variables are not required in this case since the user will just click a hyperlink.

## Wireframe Template

### Figure 6. Wireframe of Data References



## User Story

* + As a user I want to view a summary of cases , deaths and recovered people by day so that I can review the data

## User Acceptance Test

* **Scenario:** I want to view a summary of daily cases , deaths and recovered people

**Given** I am at the top-right of the webpage

**And** I look for the Title: “ Total Daily Summary”

**Then** I should see the Daily Summary

## User Story Workflow

### Figure 7. Workflow of Daily Summary



## Data Requirements

* + A section in the web page for summary.
  + The desired summary data calculated from the APIs.
  + A division that clearly specifies the cases , deaths and recovered.
  + A heading that establishes the title “ Total Daily Summary”.
  + Variables that will hold the contents for each of the Daily Summary categories
  + A function that gathered the data for each category daily.

## Wireframe Template

### Figure 8. Wireframe of Daily Summary

![A picture containing text, whiteboard

Description automatically 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## User Story

* + As a user I want to sort the daily cases of a given country by region and visualize them as a pie chart

## User Acceptance Test

* **Scenario:** I want to visualize the daily cases of a country as a pie chart and by region

**Given** I am the graphic drop-down menu

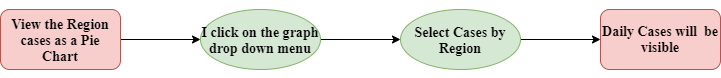
**When** I click the dropdown

**And** I look for the “ Cases by region”

**Then** I will choose the “Cases by Region”  
**And** I will be able to see the Pie chart

## User Story Workflow

### Figure 9. Workflow of Daily Cases by Region and Pie Chart

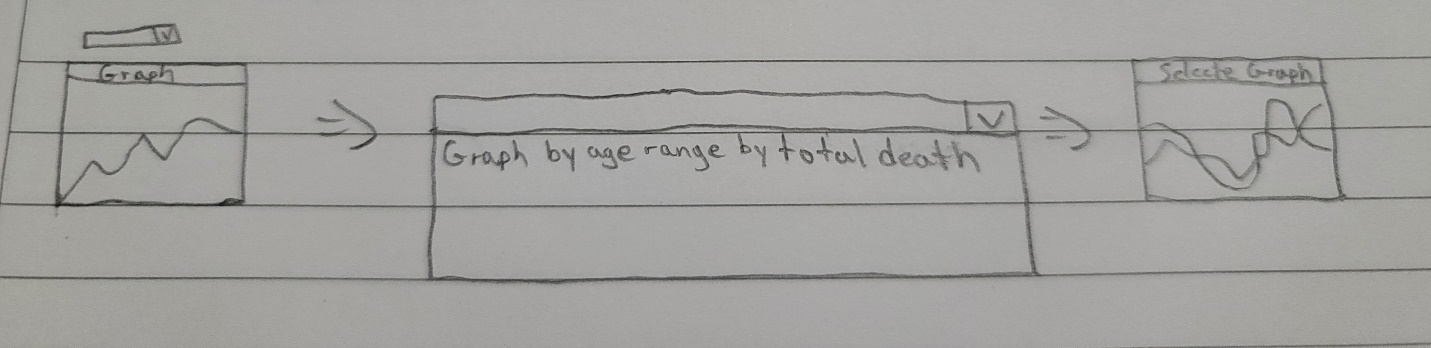


## Data Requirements

* + A dropdown that will hold the option of “Cases by”
  + A frame for the graphic to be plotted in.
  + The desired graphic’s data calculated in the background.
  + The data of the regions to be showcased on the graph.
  + **Data Validation**: Not Required. The data required for each graph will be already validated and ready to be called from the database, and the dropdown only shows a list of the graphics.

## Wireframe Template

### Figure 10. Workflow of Cases by Region and Pie chart





## User Story

* As a user I want to enable a colorblind mode through a button of a graphic so that I can see different colors on the graph

## User Acceptance Test

* **Scenario:**  I want to access the colorblind options

**Given** I am at the graphic that I want to see differently

**When** I go to the top right where I can choose the settings for colorblindness

**And** I click the label that specifies “deuteranopia”

**Then** the graphic will change

**And** I will see the same graphic but with different colors

* **Scenario:**  I want to access the colorblind options

**Given** I am at the graphic that I want to see differently

**When** I go to the top right where I can choose the settings for colorblindness

**And** I click the label that specifies “tritanopia”

**Then** the graphic will change

**And** I will see the same graphic but with different colors

* **Scenario:**  I want to access the colorblind options

**Given** I am at the graphic that I want to see differently

**When** I go to the top right where I can choose the settings for colorblindness

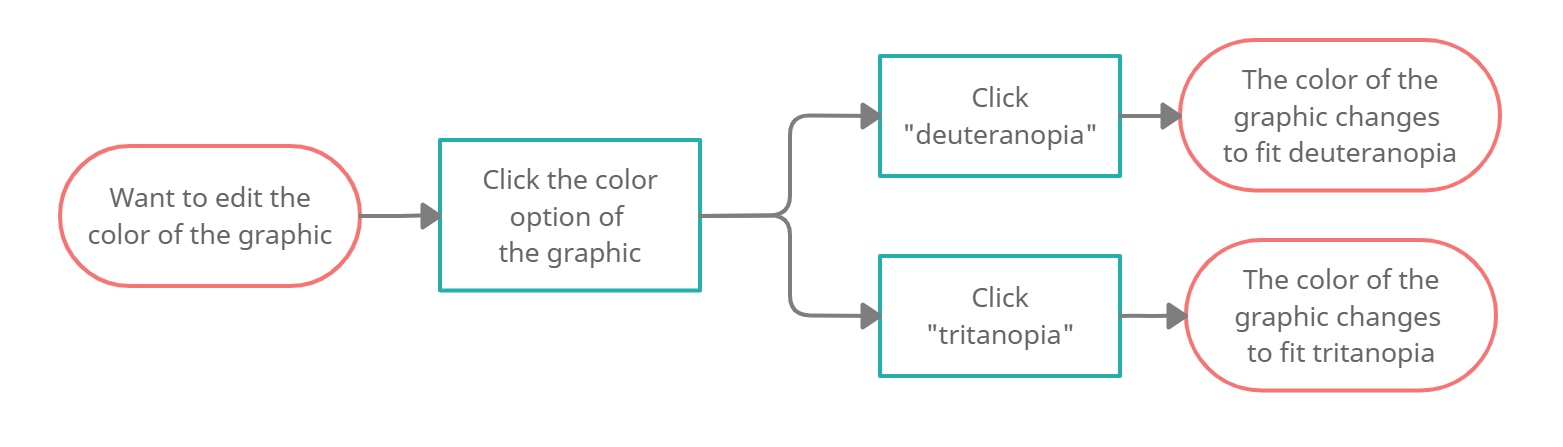
**And** I click the label that specifies “protanopia”

**Then** the graphic will change

**And** I will see the same graphic but with different colors

## User Story Workflow

### Figure 11. Workflow of Colorblind Options

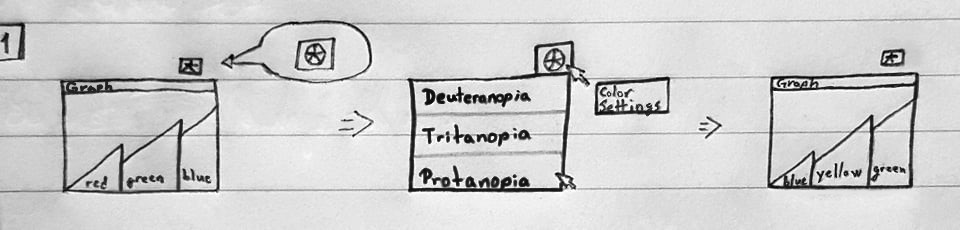


## Data Requirements

* + A frame for the graphic to be plotted in.
  + The desired graphic’s data calculated in the background.
  + The desired plotted graphic, to change its colors.
  + A button to change the color of a graphic, located at the top right of the graphic.
  + A dropdown that will have 3 label/buttons, this will be “deuteranopia”, “tritanopia” and “protanopia”.
  + Variables that will hold the colors of the graphic.
  + **Data Validation**: When the user chooses the disability, the colors must change, so we will validate the new variables of colors for the graphs, to avoid an error in the colors.

## Wireframe Template

### Figure 12. Wireframe of Colorblind Options

****

## User Story

* + As a user I want to be able to sort the countries name in the table summary in descending and ascending order

## User Acceptance Test

* **Scenario:** I want to sort the countries name in descending order

**Given** I am at the table of countries

**When** I go to country arrow

**And** I click the arrow

**Then** I see the countries sorted in descending order

* **Scenario:** I want to sort the countries name in ascending order

**Given** I am at the table of countries

**When** I go to country arrow that points upwards

**And** I click the arrow

**Then** I see the countries sorted in ascending order

## User Story Workflow

### Figure 13. Workflow of Sorting Table of Countries

Diagram

Description automatically generated

## Data Requirements

* + An arrow located besides the country title , that has two modes (downward, upward).
  + A function that will sort the names in the table in ascending and descending order.
  + The option to make clickable the arrow
  + **Data Validation**: Not Required.

## Wireframe Template

### Figure 14. Wireframe of Sharing Graphics

Diagram

Description automatically generated

## User Story

* + As a user I want to select from a drop-down menu different countries so I can view the data of each country.

## User Acceptance Test

* **Scenario:** I want to see the specific data of a given country
  + **Given** I am at the countries drop down list that Starts with Argentina
  + **When** I click the dropdown
  + **And** I look for the desired country
  + **Then** I will be able to see all the covid-19 information as plots

## User Story Workflow

### Figure 15. Workflow of Viewing the different countries information



## Data Requirements

* + The dropdown that will hold the list to all countries available
  + An API that gets the actual information of the country
  + The desired graphic’s data calculated in the background.
  + The total vaccinated people by time plotted graphic.
  + **Data Validation**: Not Required. The data for the graphic has already been validated when pulled from the API.

## Wireframe Template

### Figure 16. Wireframe of Drop-down menu of the different countries

![A picture containing text, whiteboard

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SEyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA2OjAyIDE1OjQwOjU2AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## User Story

* + As a user I want to change the current graphic through a button so that I can view a different graph

## User Acceptance Test

* + **Scenario:** I want to look up a different data graphic

**Given** I am at the exchangeable graphic

**When** I go to the top middle where I can click a dropdown of graphics

**And** I click the desired data to be viewed

**Then** the new graphic will replace the current graphic

**And** I will be able to see/interact with it

* + **Scenario:** I want to look up a different data graphic

**Given** I am at the bottom of the home page

**When** I scroll up and see a dropdown button under a label that says “Exchangeable graphic”

**And** I click the desired data to be viewed

**Then** the new graphic will replace the current graphic

**And** I will be able to see/interact with it

* + **Scenario:** I want to look up a different data graphic

**Given** I am at the top of the home page

**When** I scroll down and see a dropdown button under a label that says “Exchangeable graphic”

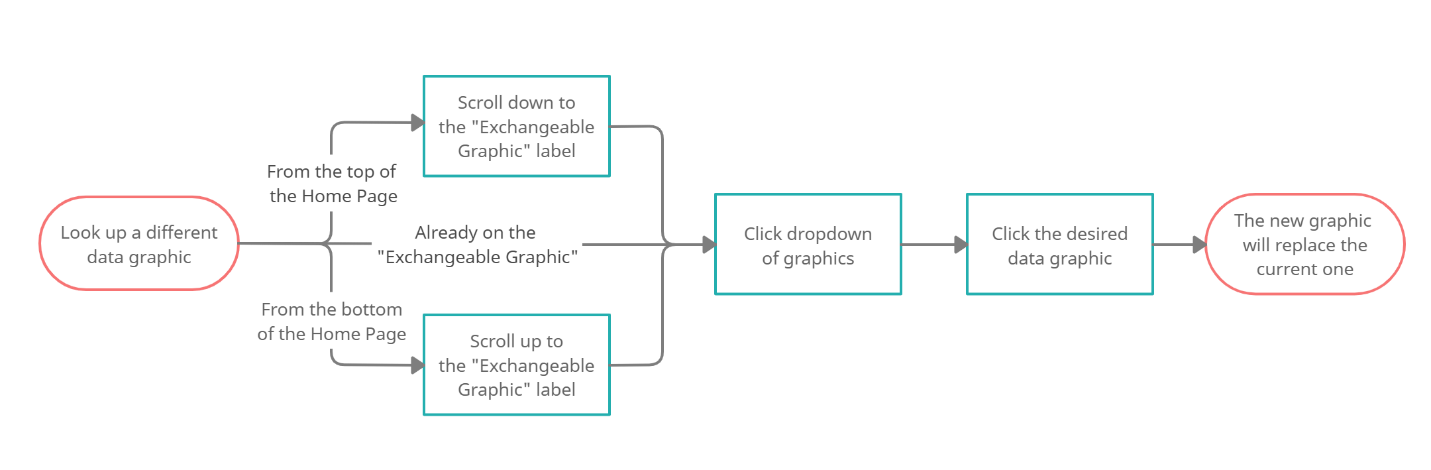
**And** I click the desired data to be viewed

**Then** the new graphic will replace the current graphic

**And** I will be able to see/interact with it

## 9.3 User Story Workflow

### Figure 17. Workflow of Changing a Graphic

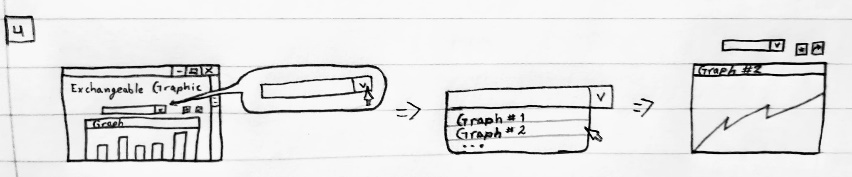


## Data Requirements

* + A label that will say “Exchangeable Graphic” for the user to know where it can see other graphics.
  + The dropdown that will hold the list to all the graphics available.
  + A frame for the graphic to be plotted in.
  + The desired graphic’s data calculated in the background.
  + **Data Validation**: Not Required. The data required for each graph will be already validated and ready to be called from the database, and the dropdown only shows a list of the graphics.

## Wireframe Template

### Figure 18. Wireframe of the Changing of a Graphic



## User Story

* + As a user I want to click on the options of graphs in the navbar and go to the graphs section

## User Acceptance Test

* + **Scenario:** I want to use the nav bar menu and go to a certain position in the page

**Given** I am at the start of the home page in the navbar

**When** I click the graphs option

**Then** I should be moved to the correct space in the webpage

## User Story Workflow

### Figure 19. Workflow of Navigate to the graph section



## Data Requirements

* + A navbar with different options
  + Variables that hold different positions of the different options of the navbar
  + **Data Validation**: It will be validated through an automatized test.

## Wireframe Template

### Figure 20. Wireframe of Navbar of Graphs

![A picture containing text, whiteboard

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SL4RXhpZgAATU0AKgAAAAgACAALAAIAAAAmAAAIegESAAMAAAABAAEAAAExAAIAAAAmAAAIoAEyAAIAAAAUAAAIxkdGAAMAAAABAAQAAEdJAAMAAAABAEsAAIdpAAQAAAABAAAI2uocAAcAAAgMAAAAbgAAEV4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA2OjAyIDE1OjU2OjQzAAAGkAMAAgAAABQAABE0kAQAAgAAABQAABFIkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkoAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## User Story

* As a user I want to be able to see points in the xy scattered plots where the information is visible as numbers

## User Acceptance Test

* **Scenario:** I want to quantitative information in a given category of a plot

**Given** I am at the desired plot

**When** I go down in the menu and select line graph

**And** I click “Line Graph”

**Then** I will see a lien graph with different points

## User Story Workflow

### Figure 21. Workflow of Quantitative Points



## Data Requirements

* + Available API’s that will retrieve the data from the servers.
  + A drop-down list that will hold the options for selections
  + A window frame for the plots to be displayed
  + A format for each of the plots including the title and a description
  + Points that will display the coordinate of the plot

## Wireframe Template

### Figure 22. Workflow of Quantitative Points

Diagram

Description automatically generated

## User Story

* + As a user I want to view the cases of recovered people, active cases, confirmed cases and number of deaths of a given country and see them as a bar plot.

## User Acceptance Test

* **Scenario:** I want to view the recovered cases as a bar plot

**Given** I am at the plot of Recovered Cases

**When** I go down in the menu where I choose Bar Graph

**And** I click “Bar Graph”

**Then** I will see a graphic showing the recovered cases

* **Scenario:** I want to view the active cases as a bar plot

**Given** I am at the plot of Active Cases

**When** I go down in the menu where I choose Bar Graph

**And** I click “Bar Graph”

**Then** I will see a graphic showing active cases

* **Scenario:** I want to view the confirmed cases as a bar plot

**Given** I am at the plot of Confirmed Cases

**When** I go down in the menu where I choose Bar Graph

**And** I click “Bar Graph”

**Then** I will see a graphic showing confirmed cases

* **Scenario:** I want to view the Number of Deaths as a bar plot

**Given** I am at the plot of Number of Deaths

**When** I go down in the menu where I choose Bar Graph

**And** I click “Bar Graph”

**Then** I will see a graphic Number of Deaths cases

## User Story Workflow

### Figure 23. Workflow of Bar Plots

Diagram

Description automatically generated

## Data Requirements

* + Available API’s that will retrieve the data from the servers.
  + A drop-down list that will hold the options for selections
  + A window frame for the plots to be displayed
  + A format for each of the plots including the title and a description
  + A var that will hold the option for the graph bar.

## Wireframe Template

### Figure 24. Wireframe of Bar Plots

A picture containing text, whiteboard

Description automatically generated

## User Story

* + As a user I want to sort the table of Summary Totals by Cases Confirmed , Deaths and Recovered in ascending and descending order.

## User Acceptance Test

* **Scenario:** I want to sort the confirmed cases in descending order

**Given** I am at the table “ Summary of Totals”

**When** I go to “Confirmed” arrow

**And** I click the arrow

**Then** I see the confirmed cases sorted in descending order

* **Scenario:** I want to sort the confirmed cases in ascending order

**Given** I am at the table “ Summary of Totals”

**When** I go to “Confirmed” arrow

**And** I click the arrow

**Then** I see the confirmed cases sorted in ascending order

* **Scenario:** I want to sort the Deaths in ascending order

**Given** I am at the table “ Summary of Totals”

**When** I go to “Deaths” arrow

**And** I click the arrow

**Then** I see the Deaths sorted in ascending order

* **Scenario:** I want to sort the Deaths in descending order

**Given** I am at the table “ Summary of Totals”

**When** I go to “Deaths” arrow

**And** I click the arrow

**Then** I see the Deaths sorted in descending order

* **Scenario:** I want to sort the Recovered People in ascending order

**Given** I am at the table “ Summary of Totals”

**When** I go to “Recovered People” arrow

**And** I click the arrow

**Then** I see the Recovered People sorted in ascending order

* **Scenario:** I want to sort the Recovered People in descending order

**Given** I am at the table “ Summary of Totals”

**When** I go to “Recovered People” arrow

**And** I click the arrow

**Then** I see the Recovered People sorted in descending order

## User Story Workflow

### Figure 25. Workflow of Sort of Summary Totals

Diagram

Description automatically generated

## Data Requirements

* + Available API’s that will retrieve the data from the servers.
  + A function that will sort the cases ascending and descending
  + A function that will sort the deaths cases in ascending and descending form
  + A table with all the data displayed
  + A format for each of the tables

## Wireframe Template

### Figure 26. Wireframe of Summary Totals

A picture containing text, whiteboard

Description automatically generated

## User Story

* + As a user I want to have a view of 4 plots of each given country in the same page

## User Acceptance Test

* **Scenario:** I want to view four plots of Covid Statistics of a given country

**Given** I am at the graph section of the web page

**When** I select the desired Country

**And** I click the desired country

**Then** I will see four different graphs

## User Story Workflow

### Figure 27. Workflow of 4 plots by page



## Data Requirements

* + Available API’s that will retrieve the data from the servers.
  + A button with a drop-down list of Countries
  + Four window frames for the plots to be displayed
  + A format for each of the plot including the bar and line graph

## Wireframe Template

### Figure 28. Workflow of four plots by page

![A picture containing text, whiteboard

Description automatically 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## User Story

* + As a user I want to change the selected graphic from bar plot to a line graph so that it can be visualized differently

## User Acceptance Test

* **Scenario:** I want to change any bar plot to their pie chart equivalent plot

**Given** I am at the selected graph and go to the right of the graph

**When** I select the button of the option of pie chart

**And** I click “Pie Chart View”

**Then** I will see a pie chart of the desired graphic

## User Story Workflow

### Figure 29. Workflow of bar plot to line graph



## Data Requirements

* + Available API’s that will retrieve the data from the servers.
  + A button for changing the display view of the plot
  + A converter that changes from xy scattered to pie chart
  + A format for the pie chart and a window frame
  + A button for going back to the original view

## Wireframe Template

### Figure 30. Wireframe of bar plot to line graph

A picture containing text, whiteboard

Description automatically generated

## User Story

* As a user I want to be able to download/embed a given graph to another website to share the data.

## User Acceptance Test

* **Scenario:** I want to download a graph

**Given:** I am at the graph

**When:** I go to the top left of the graph

**And:** Click the download button

**Then:** The graph will be downloaded as an image

* **Scenario:** I want to embed a graph

**Given:** I am at the graph

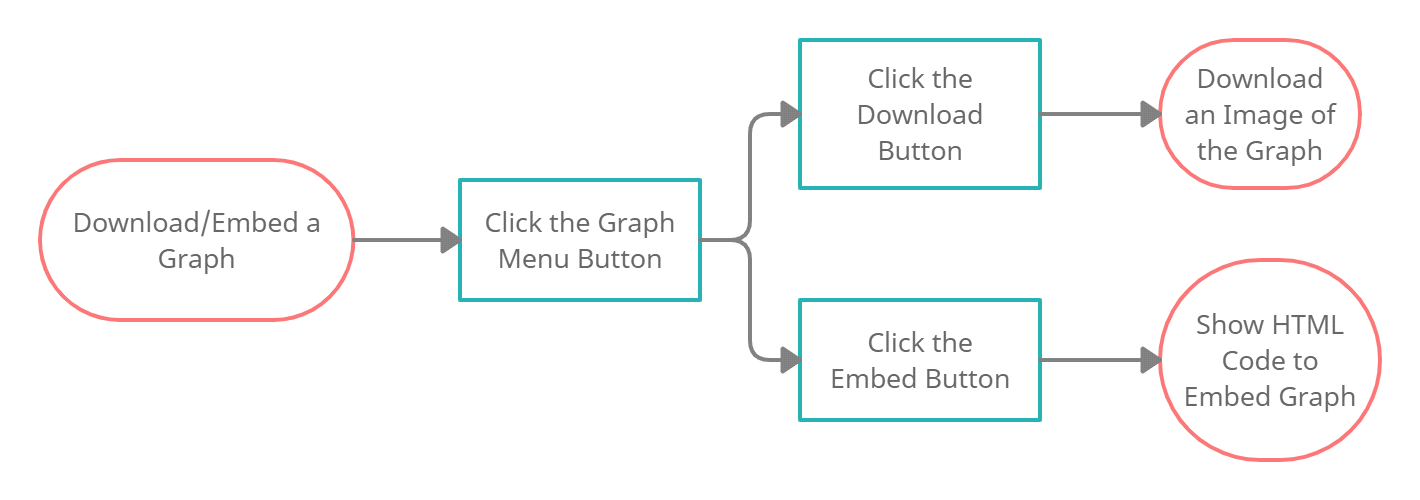
**When:** I go to the top left of the graph

**And:** Click the embed button

**Then:** The graph will be downloaded as an image

## User Story Workflow

### Figure 31. Workflow of Download/Embed Graph

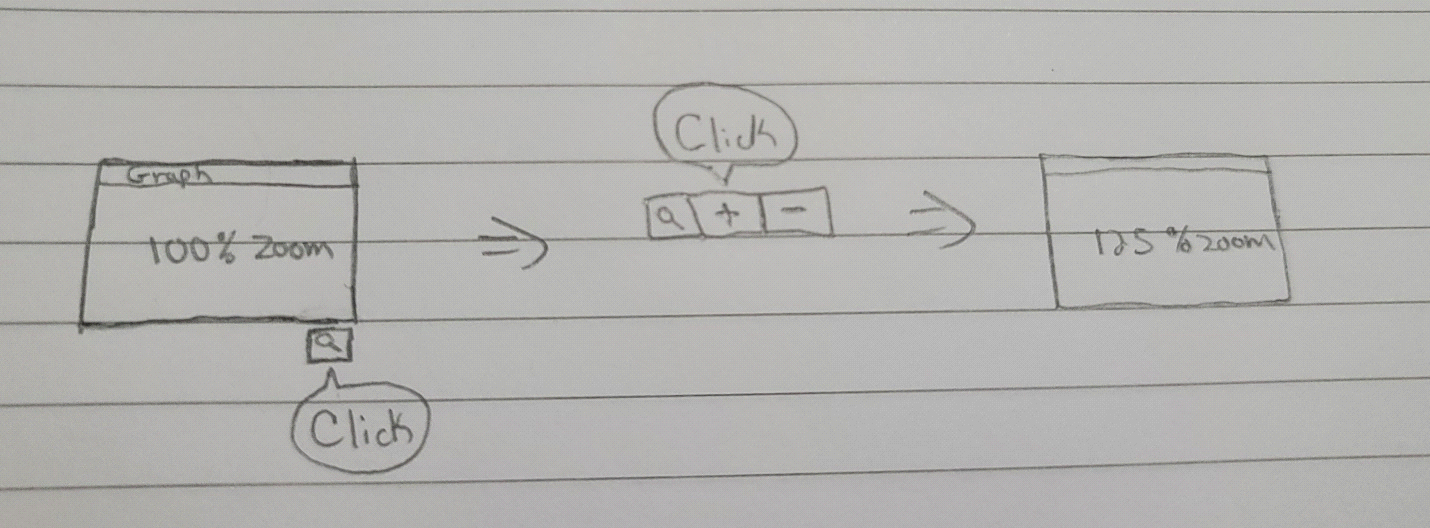


## Data Requirements

* A graph with the desired data.
* A menu on the graph with the options of "Download" and "Embed".

## Wireframe Template

### Figure 32. Wireframe of Download/Embed Graph



## User Story

* As a user I want to hover above a graphic and highlight a specific data point on the timeline to see data for that sample.

## User Acceptance Test

* **Scenario:** I want to view data for a specific time point on the graph.

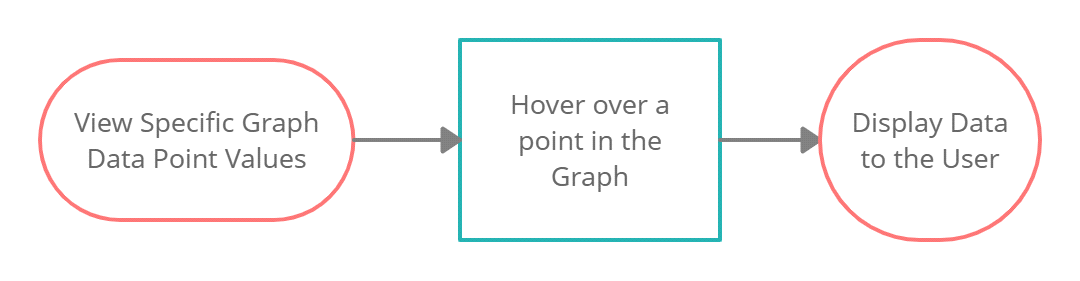
**Given:** I am on the desired graph.

**When:** I hover with the mouse pointer over the graph.

**Then:** The graph presents a hover box with the relevant time data.

## User Story Workflow

Figure 33. Workflow of Graphic Hover Box

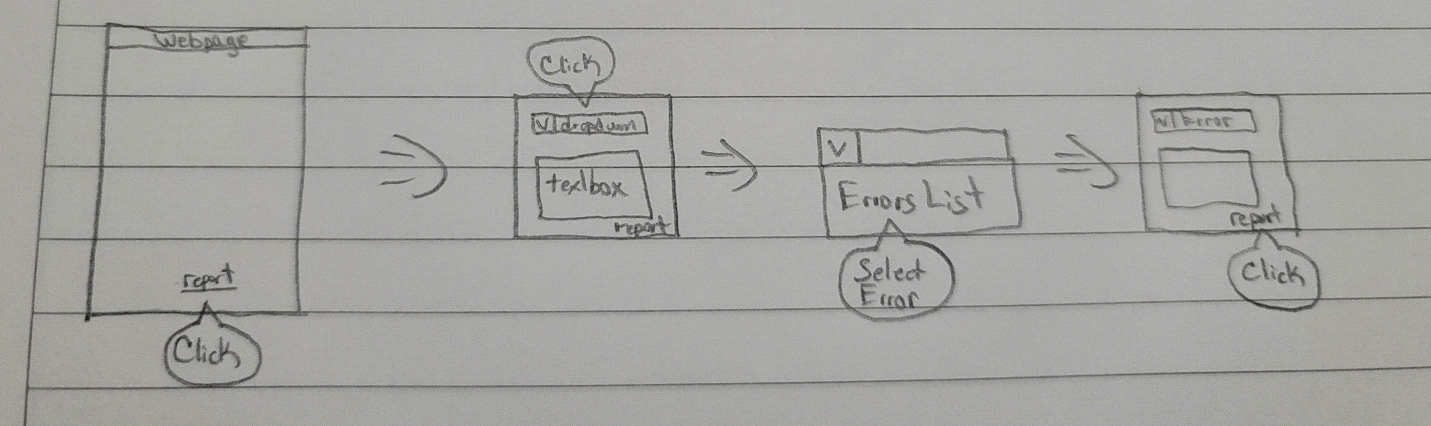


## Data Requirements

* A graph with the desired data.
* Individual data points plotted on the graph each with a hover element.

## Wireframe Template

### Figure 34. Workflow of Graphic Hover Box



## User Story

* As a user I want to search total deaths for a time period so that I can review the data.

## User Acceptance Test

* **Scenario:** I want to view total deaths for a given time period.

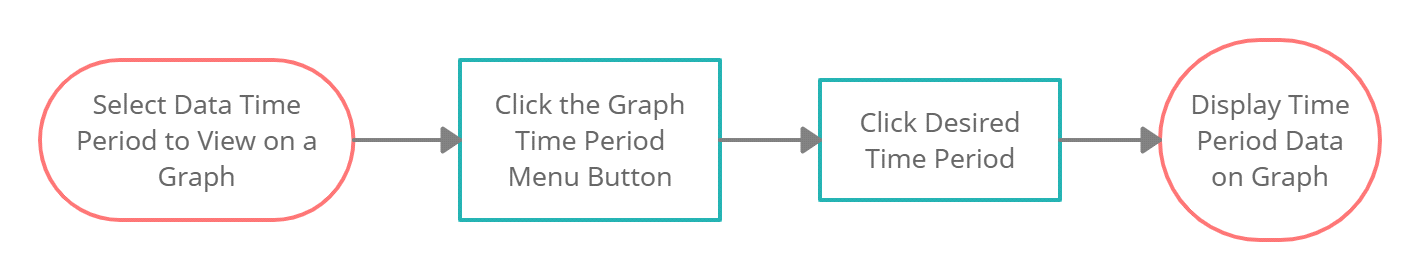
**Given**: I am on a graph that allows time period selection.

**When**: I go to the menu on the graph with the time period options.

**Then**: Click on an option.

## User Story Workflow

### Figure 35. Workflow of Graph Time Period Selection

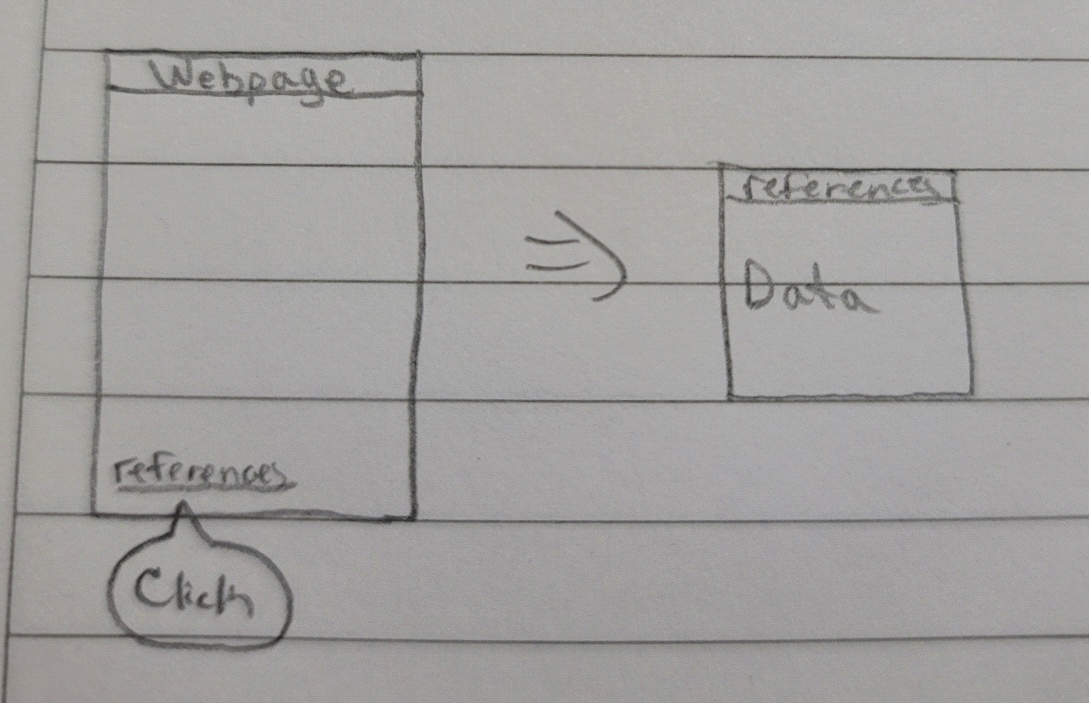


## Data Requirements

* A graph with the desired data that has time selection options.
* A menu with the time options.

## Wireframe Template

### Figure 36. Wireframe of Graph Time Period Selection



## User Story

* As a user I want to select specific age ranges on a graph to view data for that range.

## User Acceptance Test

* **Scenario:** I want to view data for a specific age range on a graph.

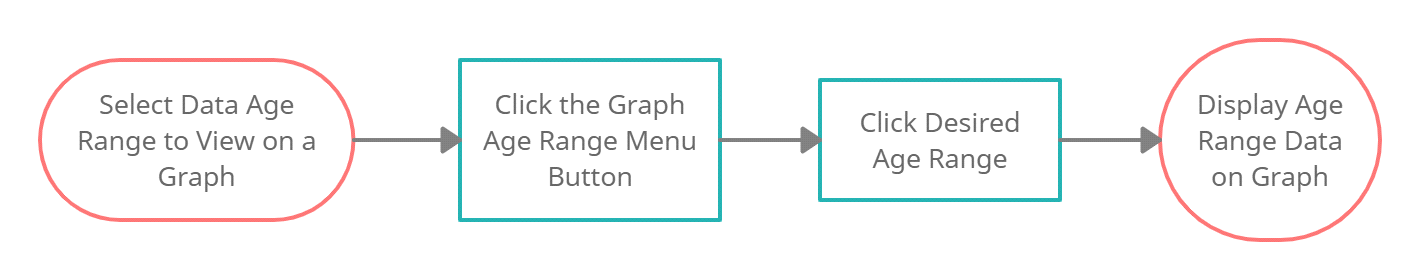
**Given:** I am on a graph that features age as a data point.

**When:** I go to the menu on the graph with the age range options.

**Then:** Click on a option.

## User Story Workflow

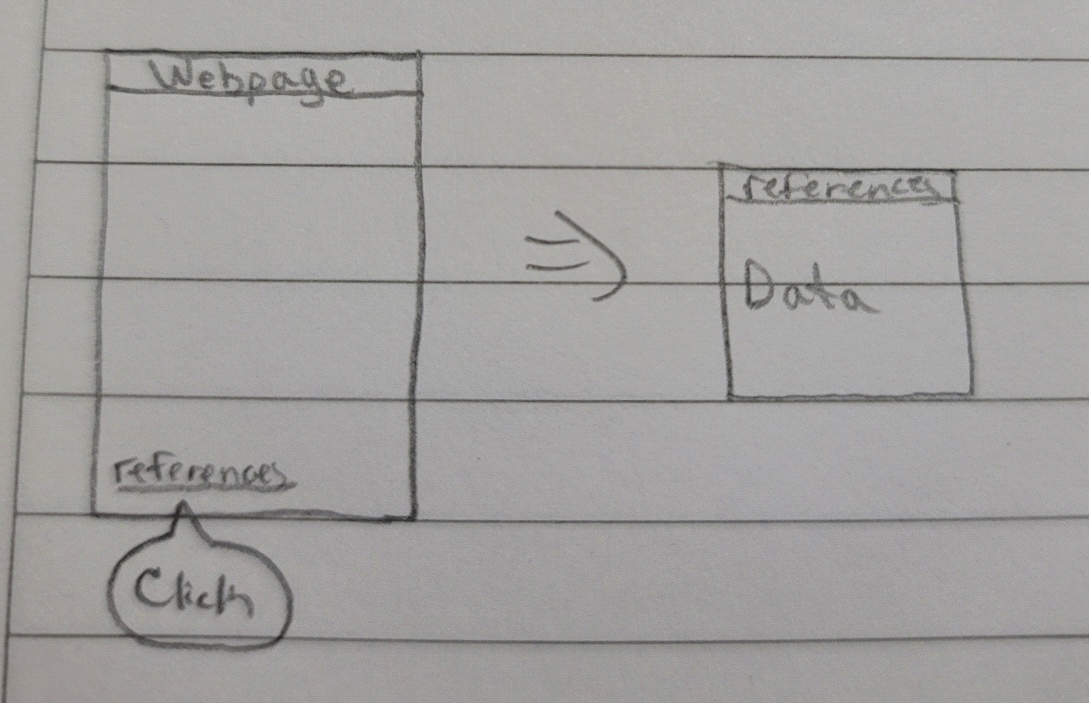
### Figure 37. Workflow of Graph Age Range Selection



## Data Requirements

* A graph with the desired data that has age range options.
* A menu with the age options.

## Wireframe Template



### Figure 38. Wireframe of Graph Age Range Selection

## User Story

• As a user I want to search total cases for a time period so that I can review the data.

## User Acceptance Test

* **Scenario**: I want to view total cases for a given time period.

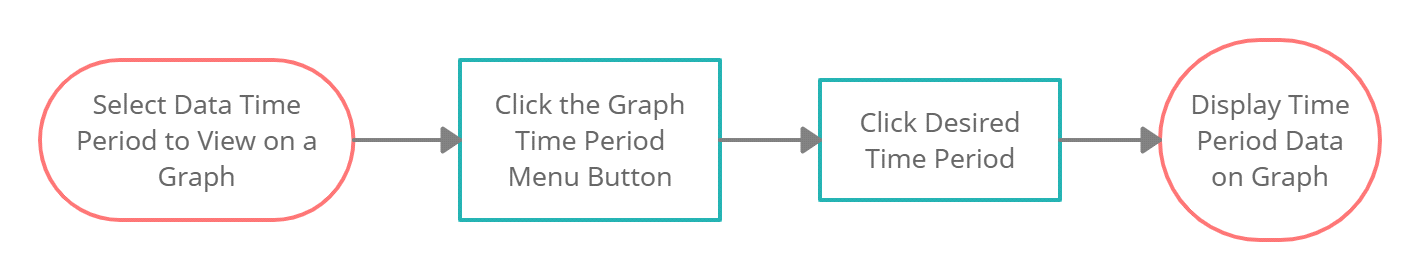
**Given**: I am on a graph that allows time period selection.

**When**: I go to the menu on the graph with the time period options.

**Then**: Click on a option.

1. User Story Workflow

### Figure 39. Workflow of Graph Time Period Selection

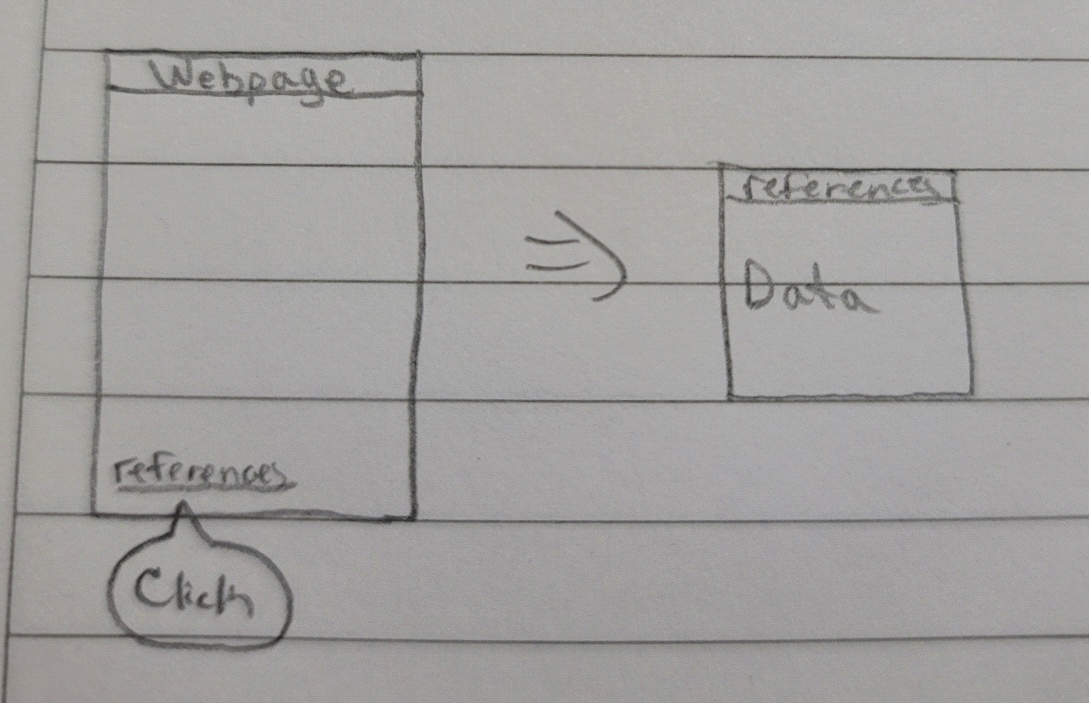


1. Data Requirements

* A graph with the desired data that has time selection options.
* A menu with the time options.

## Wireframe Template

### Figure 40. Wireframe of Graph Time Period Selection



# Maintainability/Evolvability

* To ensure the maintainability of the web app all the elements of the software requirements will be appropriately documented. Moreover, the code that is going to be used will be commented and documented in each step. The code will be very clear for reading and will evade redundance as possible.
* The web application will use the latest version of each component. For example, Node 16.2.0 and ES9 JavaScript. The use of the latest framework and software available will ensure that the application keeps up to date to emerging technologies for full functionality.

# Reliability

The website will make the following recurrent tasks in order to assure the reliability of the page.

* A functionality test, where all the modules of the program will be tested before hand, in a separate branch, until no fatal errors occur, if minor errors do occur, it will be worked with during the day in a separate branch.
* A maintenance breaks each Saturday, to test the API’s data, to attend user reports and see what issues there are and address those issues.
* A security test every two (2) Sundays to expose and correct any bugs or corruption in the main code or in the API’s data.

# Availability

The website will have the following methods for the best availability possible.

* The APIs selected will be from a reliable source and tested beforehand.
* The web application will extract data from the APIs daily.
* If the program needs to restart from the beginning it will maintain all the main modules and the functions.
* The website will be available 24/7 for any user that wants to enter and verify statics.

# Usability

* The interface of the web application will be constructed using different buttons placed strategically to increase the user experience. This strategy will allow the user to familiarize with ease at the moment of navigation through the web page. Furthermore, there will be headings that clearly identify plots or information inside the page. The use of drop-down lists and menus will also contribute to a positive user experience in which there is no requirement for an instruction set. The effectiveness of the application will be based on developing a web page that prioritizes user experience and intuition.

# Scalability

* Mostly on the intangible side, the scalability of bringing access to a bigger database to better accommodate more data from the API. This would also open more doors to utilize more data form other APIs, making more graphics and charts available.
* Restructuring the synchronous functions and algorithmic parts to be asynchronous, which would lower the workload of the maintenance.
* An addition to offer a system of subscriptions and notifications, making more use of the incrementation in the database.

# Hosting Costs Per Year

* The estimated costs per year of hosting the data base and the web application are based on the selection of a monthly plan for hosting. The selection of the plan depends on the number of monthly users thus the database and the web service instance to be rented is bigger.
* The proposed service will be Amazon Web Services with a cost in a range of $300 to $700 dollars. For possible totals of $3,600 and $8, 400 USD.

# Portability

* The website’s portability will consist of the devices, operating systems and browsers that will support the webpage. The website will run on computers, cellphones, and tablets. It will be accessible from the operating systems iOS, Android and Microsoft through a website, the guaranteed ones are Edge, Google Chrome, Mozilla Firefox, and Safari.

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