

CVD19 Tracker

(**CVD19 Tracker - covid stracker**)

Prepared for: CAN-DEV104-2021-SEPB- Final
Project

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FINAL PROJECT

App Name:

CVD19 Tracker

Summary

Help the people be more aware of the cases of COVID-19 around the World and in every country. Spread awareness and expose the truth of the significant cases of infection globally.

Description

An app that will spread awareness, by showing the statistics analysis of infected, recovered and deceased people of a certain country. Prevent the spread of COVID-19 (coronavirus) by letting the people over the world to protect yourself and decrease the risk that you will infect people in your community and around the world.

Project Outline

Created a 6 page/controller app that transitions that shows data regarding Coronavirus statistics

- The Main or first page (View Controller) is where it all starts by clicking the "What's happening" Button - redirects to the next page. Swiping up can also lead to the next page.
- The second page (Home View Controller), will show links, buttons and Input fields that will direct to different pages with data. Swiping in the right corner will lead to the next page and the same with the left arrow button to the previous page. Tapping the home icon button will go back to the root page/controller.
- The third page (World View Controller) contains the world's data statistics. Tapping the arrows at the button will go to the previous, while tapping the home button will lead to the root page. Swiping is also available for easier navigation.
- The fourth page (Country View Controller) contains the Countries data. Tapping the arrows at the button will go to the previous, while tapping the home button will lead to the root page. Swiping is also available for easier navigation.
- The fifth page (Info View Controller) contains the details and short description about the Coronavirus Tapping the arrows at the button will go to the previous, while tapping the home button will lead to the root page
- The Last page (Variant View Controller) contains the details and short description about the Variants of Coronavirus. Tapping the arrows at the button will go to the previous, while tapping the home button will lead to the root page

Assessment / Project Details

Used an enum instead of boolean for switching the different state of colors. Used a switch case statement for calling the enums.

- * Used an images and icons view like button instead of using an actually button - adding a UIGesture tap, that redirects to another page.
- * Added a fonts for design wise in labels and text
- * Some descriptions and data are combined and based on the material resources listed down below.
- * Comments/Note are left for other users to be able to easily understand what the line of code is.
- * Added an input where they could search a country and redirect to a page.
- * Shows a table for worldwide data for coronavirus.
- * Used UIZARD when creating the wireframes needed for the app.

Safety

This app can be used for people of all ages, vaccinated or not.

Keywords

Covid-19, Covid, covid variants, covid data, covid variants,

REFERENCES

Materials

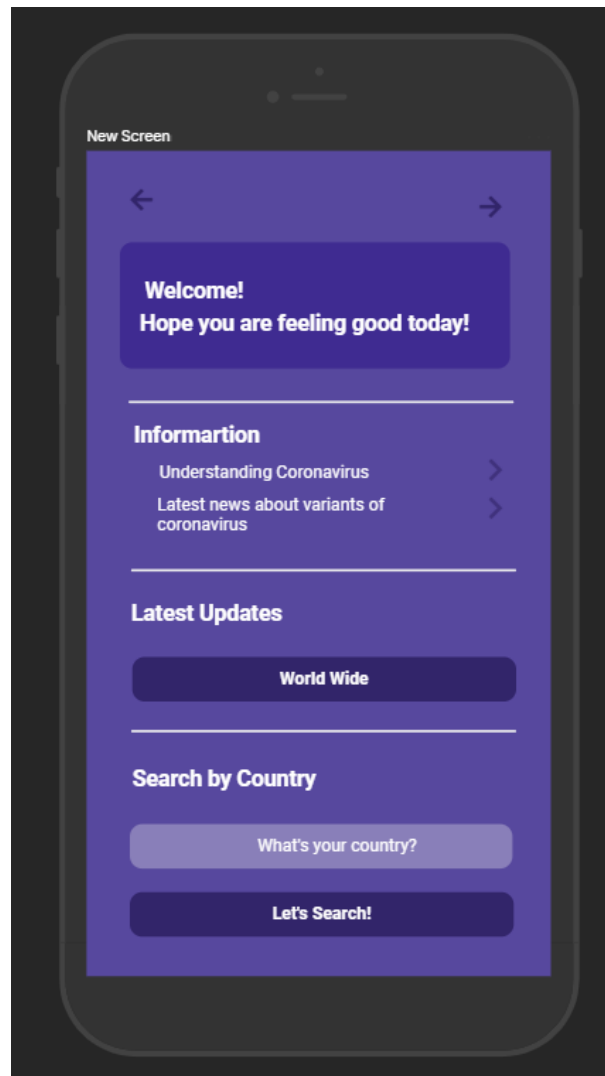
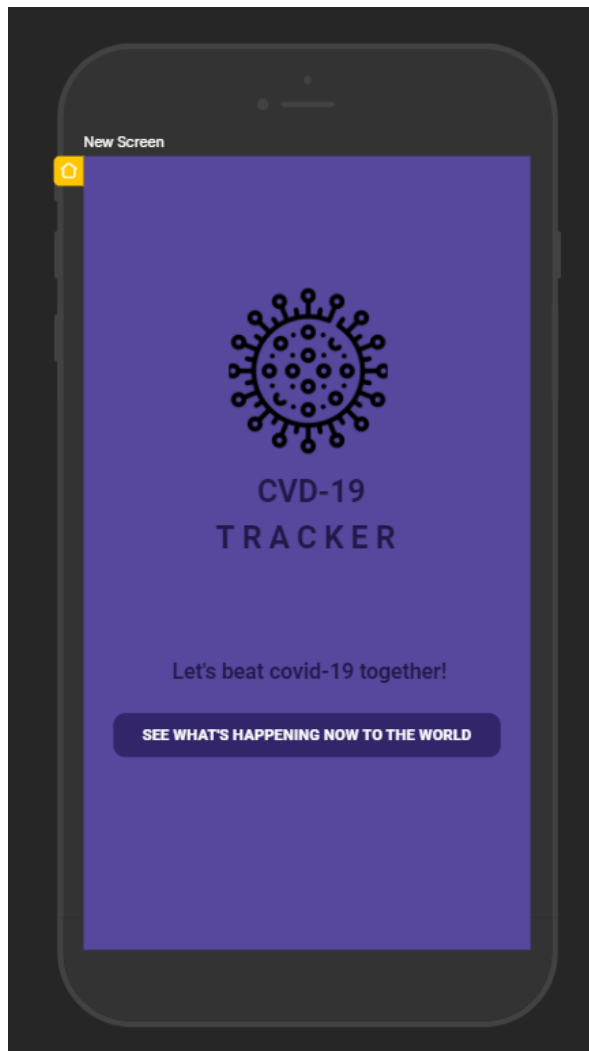
These are reference sources that the app is based on regarding the information of Coronavirus.

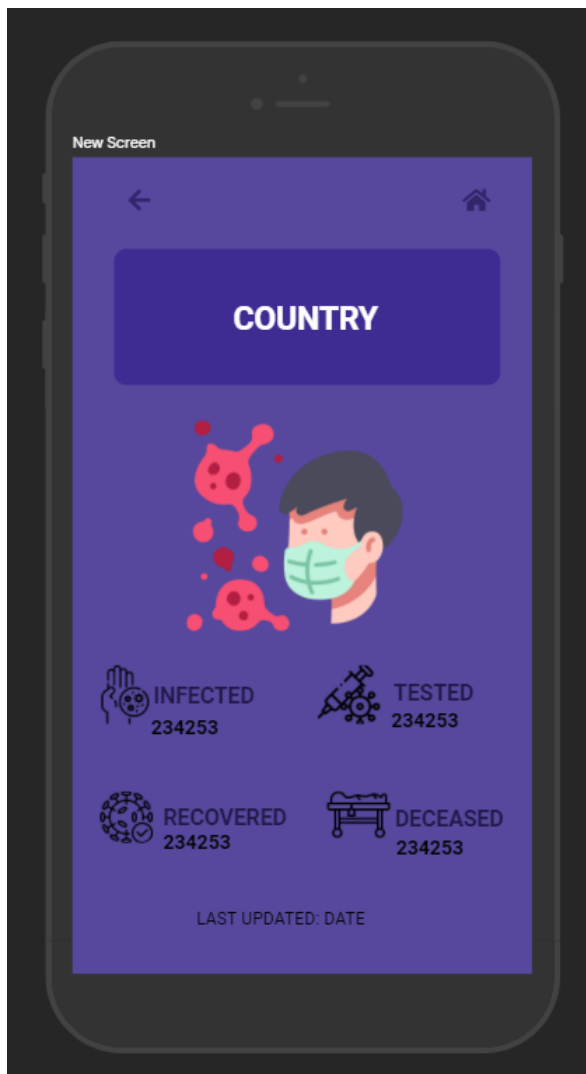
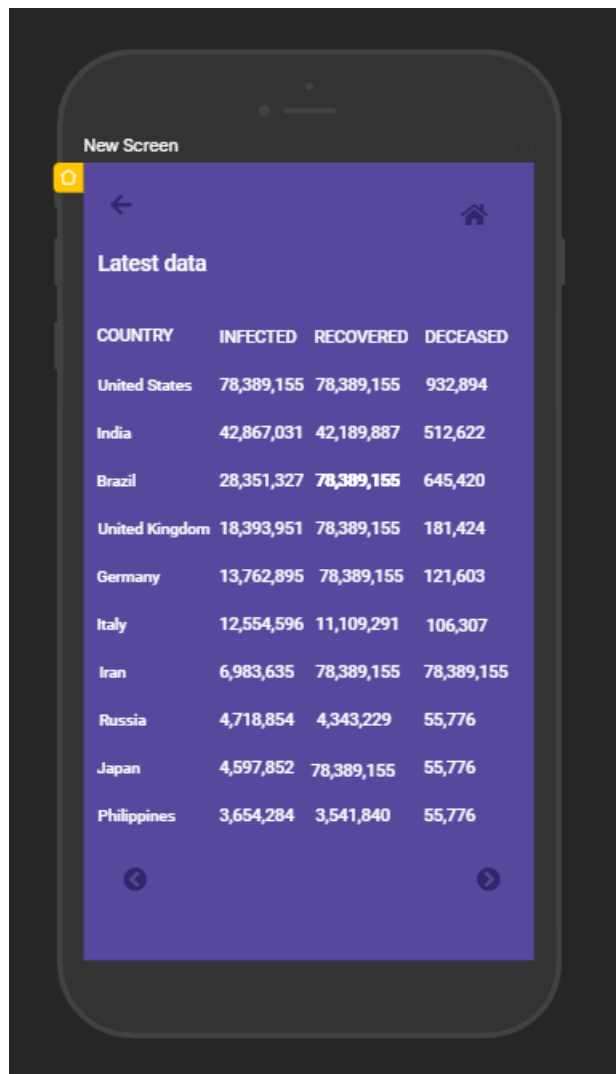
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7264574/>

<https://www.who.int/en/activities/tracking-SARS-CoV-2-variants/>

<https://apify.com/covid-19>

WIREFRAMES





New Screen

Understanding Coronavirus

Human coronaviruses (HCoV) which cause gastrointestinal and respiratory tract infections were first introduced by the discovery of HCoV-229E and HCoV-OC43, from the nasal cavities of human patients with the common cold, in the 1960s. ^{1, 2} Other discovered human coronaviruses, which have caused serious respiratory tract infections, include SARS-CoV (in 2003), HCoV NL63 (in 2004), HKU1 (in 2005), MERS-CoV (in 2012), and the latest one SARS-CoV-2 (in 2019) resulting in coronavirus disease (COVID-19). ^{3, 4} The name originates from the morphology of the virus when viewed under 2D transmission electron microscopy (large pleomorphic spherical particles with the bulbous surface) and stems from the Latin word "corona," meaning "crown." ⁵ Concerning the risk factor, HCoVs vary significantly from the relatively harmless ones (ie, the common cold) to the most lethal ones (MERS-CoV, with more than 30% mortality rate in the infected). ⁶ CoVs spread during cold seasons and cause colds with major symptoms, that is, fever, sore throat, and less commonly pneumonia and bronchitis for the more aggressive strains. To date, there are no vaccines or antiviral drugs capable of preventing or treating HCoV infections. ^{6, 7, 8}

New Screen

Variants of Covid-19

A SARS-CoV-2 variant that meets the definition of a VOI (see below) and, through a comparative assessment, has been demonstrated to be associated with one or more of the following changes at a degree of global public health significance:

Increase in transmissibility or detrimental change in COVID-19 epidemiology; OR

Increase in virulence or change in clinical disease presentation; OR

Decrease in effectiveness of public health and social measures or available diagnostics, vaccines, therapeutics.

| WHO name | Pango lineage | OSHA code | WHO/WHO code | Additional notes (changes monitored) | Earliest documented samples | Date of designation |
|----------|---------------|-----------|---------------|---|------------------------------|--|
| Alpha | B.1.1.7 | GRY | 201 (V1) | +5.454K +5.452B | United Kingdom, Sep-2020 | 16-Dec-2020 |
| Beta | B.1.351 | GR12TY132 | 204 (V2) | +5.1.18P | South Africa, May-2020 | 16-Dec-2020 |
| Gamma | P.1 | GR12TY133 | 203 (V3) | +5.591H | Brazil, Nov-2020 | 11-Jan-2021 |
| Delta | B.1.617.2 | GR | 21A, 21L, 21J | +5.417H +5.454K | India, Oct-2020 | VOC-1: 6-Apr-2021 VOC-2: 11-May-2021 |
| Omicron* | B.1.1.529 | GR | 21K, 21L, 21M | +5.8548K | Multiple countries, Nov-2021 | VOC-3: 24-Nov-2021 VOC-4: 26-Nov-2021 |

