

COVID-19 Tracker

Vision and Scope Document

Version <1.0>

Revision History

Date	Version	Description	Author
24/09/20	1.0	First draft	Damon Ramirez
25/09/20	1.01	Providing detail to section 4	Nicholas Bell
25/09/20	1.02	Fix documents based on Dr. Wei comments	Cuong Nguyen
04/05/21	1.1	Removing templates, updating current goals and perspective	Nicholas Bell

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Vision (Small Project)

1. Introduction

The purpose of this user manual is to provide the information necessary for user to make effective use of the covid tracker API designed by the Covid Tracker team at Texas Christian University.

1.1 Background

This product is an online interactive COVID-19 Tracker. The purpose of which is to provide a more user-friendly, easy to read dashboard of data related to coronavirus.

1.2 References

2. Positioning

2.1 Business Opportunity/Problem Statement

The problem of	Difficulty making Covid-19 data user friendly to explore
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affects	people who want data related to COVID-19
the impact of which is	hard to read data and cluttered dashboards
a successful solution would be	a more user-friendly dashboard that anyone can access and read easily.

2.2 Product Vision/Position Statement

[Provide an overall statement summarizing, at the highest level, the unique position the product intends to fill in the marketplace. The following format may be used:]

For	People concerned about the US
Who	want data on COVID-19
The COVID Tracker	Is a Data-visualization tool
That	simplifies COVID data
Unlike	other COVID API's
Our product	will be more like a dashboard and interactive map and will provide a cleaner view of data.

3. Stakeholder Profiles and User Descriptions

3.1 Stakeholder Summary

Name	Description	Major value or benefit from this product	Major features of interest	Constraints that must be accommodated	Direct User or not?
Bingyand Wei	TCU COSC Professor	improved usability compared to other APIs and can be shared with TCU community	User-friendly, search engine, mobile compatibility		Yes
Researchers	Those who wish to support their research with our data	Having clear numbers for statistics from each day allow for easy record keeping	Graphs, cards, calculated % of population vaccinated	Might request access to run locally	Yes
Citizens	People living in or concerned with the US	Opportunity to stay informed about how	Multiple data sets, State view level	Likely can only access the software online	Yes

		Covid-19 is affecting their state of residence			
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3.2

There will be five team members working on this project. The time period is September 2020 – May 2021. Plan to have a running website by December 2020, will expand to mobile in 2021.

The project will be deployed on an Amazon AWS server and uses Springboot technologies.

3.3 Summary of Key Stakeholder or User Needs

	Priority	Concerns	Current Solution	Proposed Solutions
Data Display	High	Users given too much information	Dashboards with all different types of information	Search engine that allows users to find specific data that applies more closely to them
Maps	Moderate	Broad map showing all cases in US	Slow websites showing the cases throughout the whole world	Caching data for popular regions like North TX to decrease load time
News	Low	News articles queries are hard to provide clear options for	News is queries according to currently selected state or county and date	Submit query parameters based on user choices

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3.4 Alternatives and Competition

Competitors: any COVID API or data dashboard on the internet

<https://covidtracking.com> :

- Strengths: access to variety of data, racism and coronavirus
- Weaknesses: not easy to read, no maps

4. Product Overview

4.1 Product Perspective

The COVID-19 Tracker will be an independent and self-contained product that would autonomously process publicly available data related to the novel coronavirus and provide it in a neatly organized display for any users to quickly and conveniently access.

4.2 Deployment Considerations

To effectively deploy this product, a stable database hosted on AWS is required to be functional and properly configured to receive and store relevant information from publicly available data sources. Upon deployment, users should be able to freely access the product through the associated website at any time via any device with a web browser.

4.3 Assumptions and Dependencies

It is assumed that the product's website will be accessible on mobile devices.

The product is dependent on receiving COVID-19 related data from public outlets like *New York Times*.

5. Product Features / Scope

Feature 1: Interactive Map

Importance: Highest

Description: The interactive map is the core feature of our application as the tool to visually represent information about Covid-19 statistics. The map will allow users to see pertinent information from all corners of the United States in a simple, straightforward manner.

Feature 2: Search

Importance: High

Description: The search feature quickly finds information for areas of interest.

Feature 3: Related News

Importance: High

Description: The news feature provides relevant information, rather than just numbers and statistics, when an area is focused upon.

Feature 4: Timeline

Importance: Medium

Description: The timeline feature allows all relevant information from the past up to the present to be displayed to the map.

Feature 5: Self-updating Data

Importance: Medium

Description: The Database and Scheduler feature ensure that the software has the most recently available data and adds it to our software.

6. Other Product Requirements