Covid Tracker

Gurpinder, Daisy, Arminder, Tom

https://github.com/GurpinderBisla/Covid-Tracker

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OVERVIEW

A website to various covid related statistics in canada, and some global stats as well. The focus will be on vacation and fatalities data, with the ability to search stats in specific provinces/countries.

SDLC

We chose agile and scrum for our SDLC model. The reason we chose this is because Agile methodology breaks the product into cycles, with the goal of delivering small features of the product within short cycles. This enables us to break the project into smaller features, where we are then able to focus and work on each feature one at a time, pushing out the features, gathering

feedback within the team on those features, and making incremental changes until we all agree on the final product. This model enables us to be in constant communication with each other, be up-to-date with what everyone is working on. It also provides us plenty of opportunities to give and receive feedbacks on the work we have produced so far, as opposed to other models where feedbacks are not sought for until the very last stage of the SDLC, by then it'd be too costly, time-wise, to make changes and redo some features.

Agile would be the best SDLC model for this project also because Agile emphasizes on constant feedback from clients for the best result. Since in our project, there are no clients involved, so we would hypothetically be our own clients to provide the feedback. This works great because we all know what the product requirements are and what the final product should look like. Therefore, we can provide the most relevant and constructive feedback to each other's work, so the final product would be the result of the team's close collaboration.

We also chose Scrum to help us implement Agile. Scrum teams commit to completing an increment of work, shipping features out in sprints. Which usually lasts around 2 weeks. With each sprint, the team pulls a task from the product backlog to work on a feature. So everyone can be committed to push out 1 feature in that sprint. At the end of each sprint, the team has the chance to review their work and reflect on what they can improve on going forward. This enables the team to be constantly learning as well as improves based on the feedback they receive.

User Stories

Global Covid-19-API

a. Mia is planning for a trip overseas for her 2 week vacation. She wants to compare covid statistics between different countries, so that she can decide where to take her next vacation.

b. Dereck is studying overseas and worried about his family and relatives at home who don't have access to information about covid cases in their region. He wants to find a way to inform his family about the current situation at his home country

Canada covid tracker

a. Jamal has friends all over Canada, he likes to stay on top of the Covid statistics for different provinces in Canada, so that he can stay up to date on how his friends might be doing.

b. Canada scientists are gathering information on different covid variants and cases to form a covid tracker. This way they might be able to spot the evolving pattern and develop a more effective vaccination.

Tech Stack

For our project we choose a basic javascript + node + react tech stack. Since this is the web dev standard tech stack, we felt this project was a great time to learn React to make a real website.

APIs

A. Covid-19 API, tracks statistics on a global level, and also provides data based on the country selected. https://covid-api.mmediagroup.fr/v1
B. Covid-19 tracker Canada, https://api.covid19tracker.ca/docs/1.0/overview. It offers details on Covid-19 cases across Canada

Features

Covid-19-API

a. Displays the global covid data in real time on the front page in chart, also lists the countries that are affected the most by Covid
b. User is able to search to select from a drop down list for the country they want to know the data about
c. User is also able to compare the covid data between 2 countries

Covid-19 Canada API

a. National statistics for active cases, fatalities, hospitalizations, recoveries for the Canada-only
b. Covid statistics based on the province that user chooses
c. Vaccination data for both national level and provincial level based on user selection

Work Breakdown Structure & Timeline

Link to WBS:
https://docs.google.com/spreadsheets/d/1t05QnFzWLY3vtrgciX4G7j0mFDJoWmtupgjuLaffyA0/edit?usp=sharing

Covid Tracker WBS

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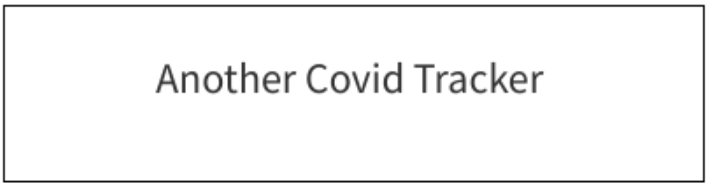
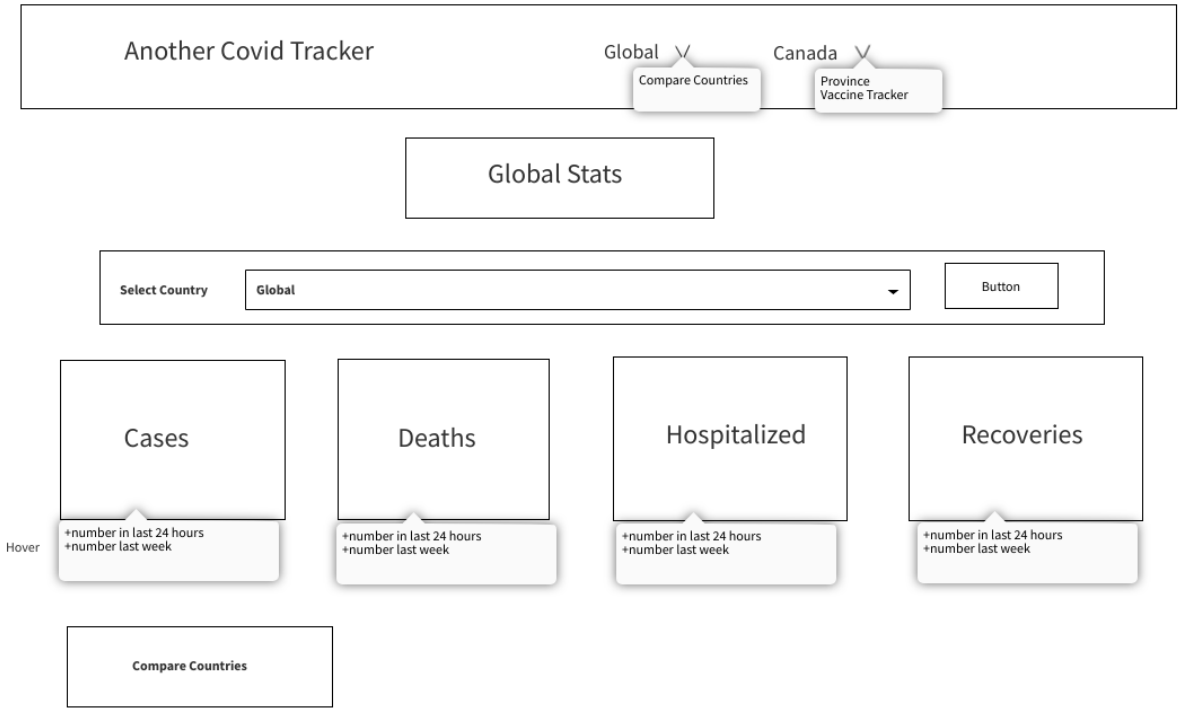
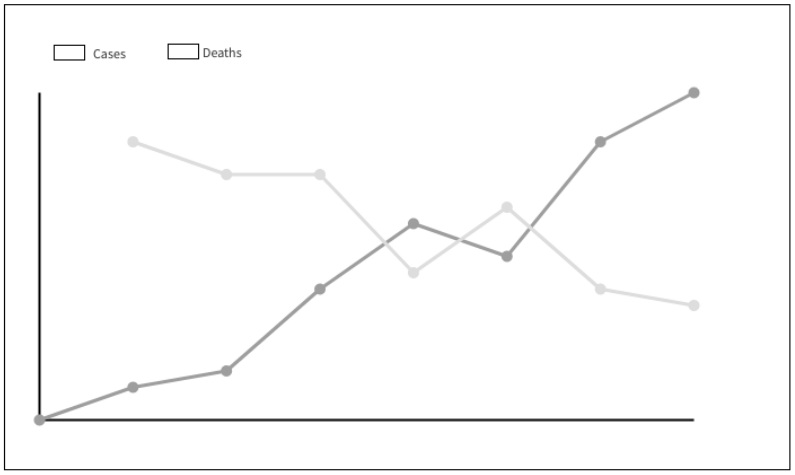
A1 Task #

Task #	Task	Assigned to	Estimated Hours	Actual Hours	planned start date	planned finish date
1	project planning					
1.1	set up communication channels	Arminder	0.5	0.5	Jan 27th	Jan 27th
1.2	decide an APIs	Team	1	1	Feb. 2nd	Feb. 4th
1.3	determine project scope	Team	1	1	Feb. 2nd	Feb. 4th
1.4	choose tech stack	Team	0.5	0.5	Feb. 2nd	Feb. 4th
1.5	decide on SDLC	Team	0.5	0.5	Feb. 2nd	Feb. 4th
1.6	decide on project interface	Team	1	1	Feb. 2nd	Feb. 4th
1.7	set up github	Gurpinder	0.5	0.5	Feb. 2nd	Feb. 4th
1.8	create WBS	Daisy	1	1	Feb. 2nd	Feb. 4th
1.9	assign team roles	Team	0.5	0.5	Feb. 2nd	Feb. 4th
2	report and presentation					
2.1	overview	Gurpinder				
2.2	explain chosen SDLC	Daisy	1	1	Feb. 15th	Feb. 15th
2.3	2 user stories	Daisy, Tom	0.5	0.5	Feb. 15th	Feb. 15th
2.4	explain APIs chosen	Daisy	0.5	1	Feb. 15th	Feb. 15th
2.5	WBS	Daisy	1	2	Feb. 15th	Feb. 15th
2.6	project schedule	Daisy	1	1	Feb. 15th	Feb. 15th
2.7	wireframes/prototype	Arminder	2	2.5	Feb. 16th	Feb. 18th
2.8	data flow diagrams	Gurpinder	2		Feb. 16th	
2.9	create presentation	Daisy	1	1	Feb. 15th	Feb. 15th
3	development					
3.1	build the front page	Gurpinder	0.5			
3.1.1	add box that displays global active cases	Daisy	0.5		Feb. 25th	Feb. 25th
3.1.2	add box to dispay global mortality rates		0.5			
3.1.3	add box to display global hospitalization rate		0.5			
3.1.4	create drop-down list with a list of country		1			
3.1.5	create search box to search stats for a country	Daisy	1		March 4th	March 4th
3.1.6	add option for statics for Canada-only		1			
3.1.7	add box to display vaccaine stats		0.5			
3.1.8	add chart to represent global covid stats		3			
3.1.9	add table to display countries with most active cases		2			
3.2	build the comparison tool	Daisy	3		March 11th	March 11th
4	testing and debugging					
4.1	testing	Team	3		March 17th	
4.2	debugging	Team	3		March 17th	
5	wrapup					
5.1	second report	Team	3		March 21st	March 25th
5.2	second presentation	Team	1		March 21st	March 25th
5.3	project review/takeaway	Team	1		April 1st	April 1st

Wireframes :




Another Covid Tracker
Global
Compare Countries
Canada
Province
Vaccine Tracker
Global Stats
Select Country
Global
Button
Cases
Deaths
Hospitalized
Recoveries
Hover
+number in last 24 hours
+number last week
+number in last 24 hours
+number last week
+number in last 24 hours
+number last week
+number in last 24 hours
+number last week
Compare Countries


Cases
Deaths


Another Covid Tracker
Global
Compare Countries
Canada
Province
Vaccine Tracker
Global Stats
Country 1
Select
Country 2
Select
Select stats to compare
Cases
Country 1 stats
Country 2 stats

Another Covid Tracker

Global

Compare Countries

Canada

Province
Vaccine Tracker

Canada's Stats

Cases

+number in last 24 hours
+number last week

Deaths

+number in last 24 hours
+number last week

Hospitalized

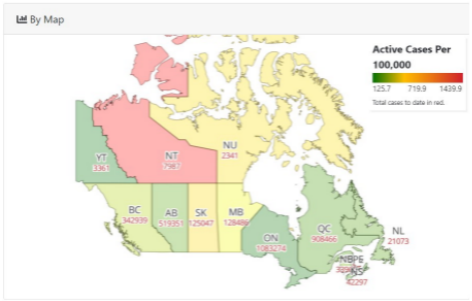
+number in last 24 hours
+number last week

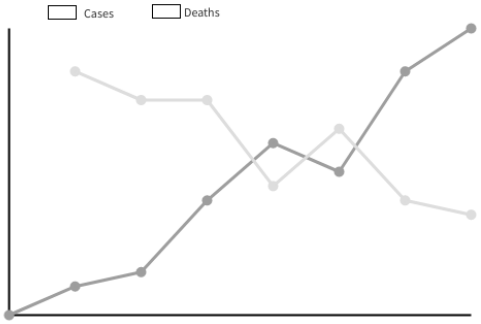
Recoveries

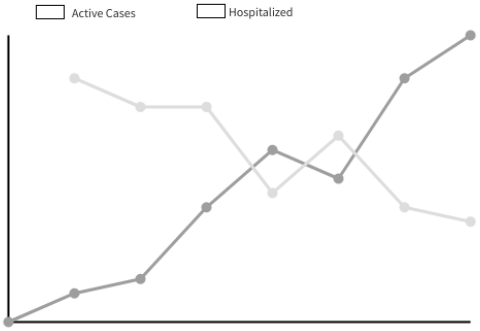
+number in last 24 hours
+number last week

Select Province

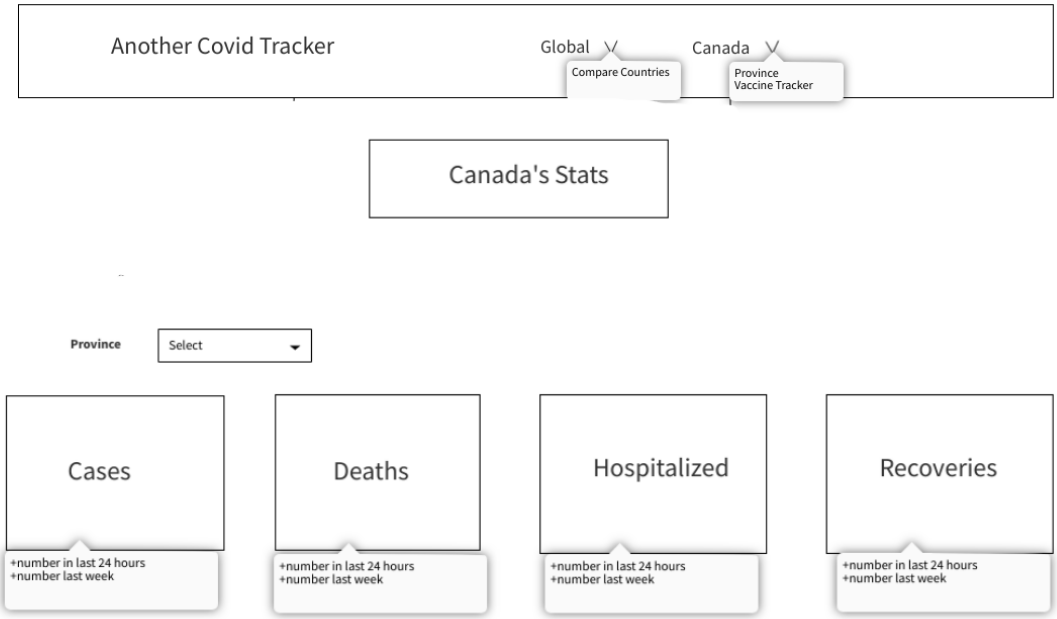
Vaccine Tracker







Cases By Province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Canada's Stats
Province
Select
Cases
+number in last 24 hours
+number last week
Deaths
+number in last 24 hours
+number last week
Hospitalized
+number in last 24 hours
+number last week
Recoveries
+number in last 24 hours
+number last week
stats
Select

Another Covid Tracker

Global

Compare Countries

Canada

Province
Vaccine Tracker

Canada's Stats
Vaccine Tracker

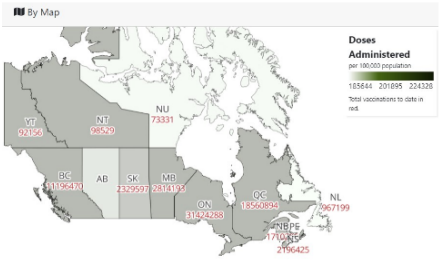
Select Province | Canada | Button

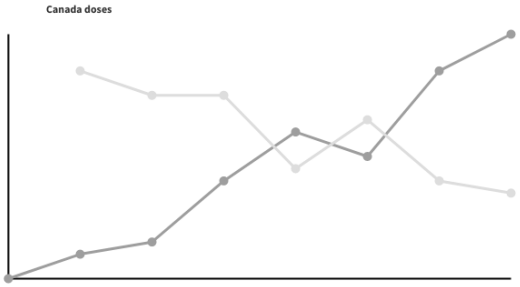
#number doses administered

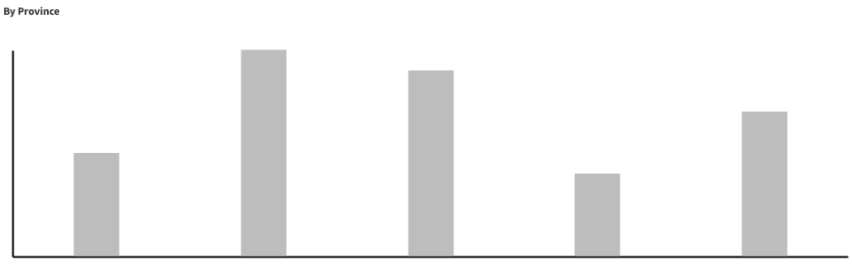
%perc population one dose

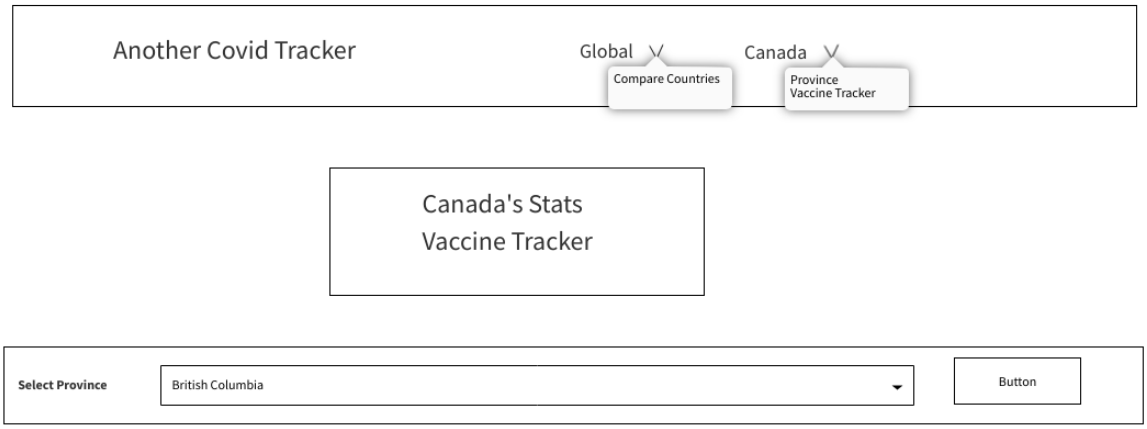
%perc population two dose

%perc population three dose

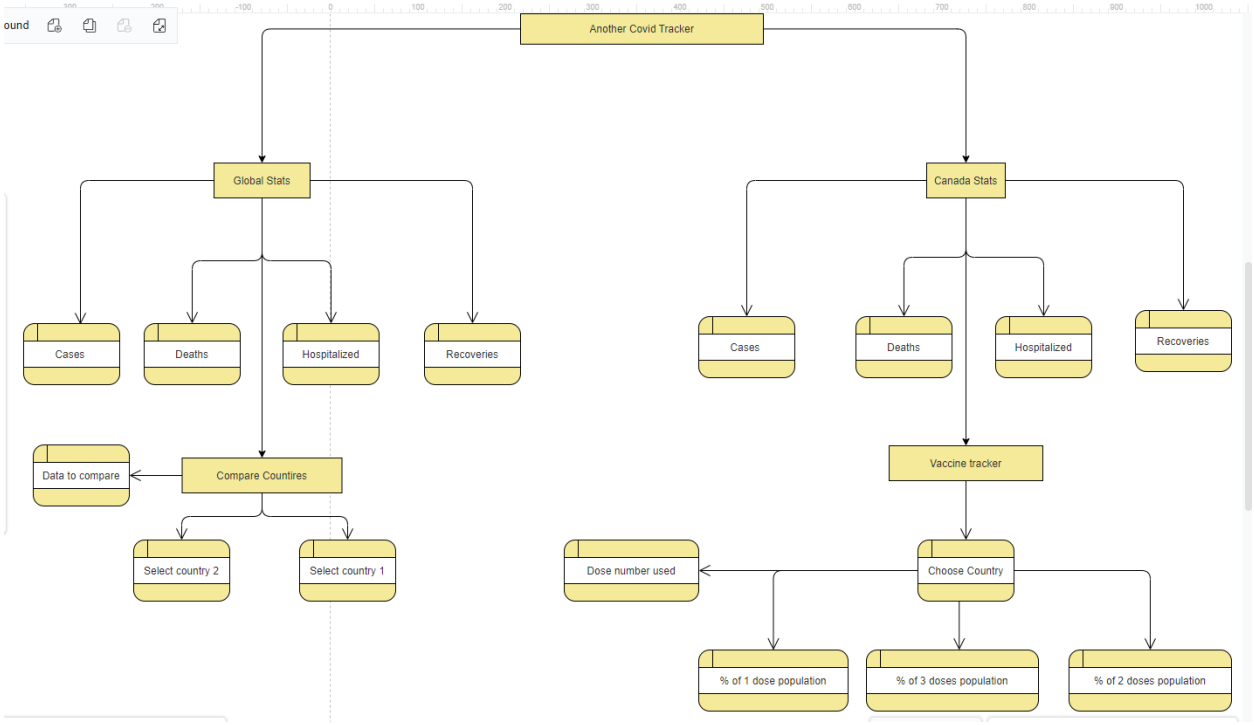








Data flow diagrams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Global Stats
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Recoveries
Cases
Deaths
Hospitalized
Recoveries
Data to compare
Compare Countires
Vaccine tracker
Select country 2
Select country 1
Dose number used
Choose Country
% of 1 dose population
% of 3 doses population
% of 2 doses population