

# Travel Wise

Don't just travel, TravelWise





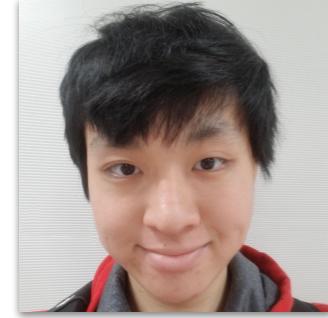
# Dung Trinh



My name is Dung Trinh and I was the Project lead for TravelWise. Other than making sure our group was on track, I was also in charge of designing our front-end. My main contributions were designing the User Interface, User Experience, Animations, Tests, Pagination, and Visuals for our website. I had an incredible team and am extremely proud of what we were able to achieve.



# Maximus Chu



My name is Maximus Chu and I mostly worked on the frontend. Some of my contributions included implementing filtering, searching, and sorting, designing and implementing both the model pages and instance pages as well as any elements within these pages, frontend unit tests such as Selenium, as well as our group visualizations.



# Mitchell Watkins



My name is Mitchell Watkins and I worked primarily on the backend. My contributions included the design, implementation, and deployment of our RESTful API, building and implementing docker images for both front and backend, managing CI and collaborating with Jesse to document our backend.



# Adam Gluch



Hi, I'm Adam Gluch, a 4th-year and one of the back-end developers for travelwise.live. My Responsibilities alongside Mitchell included developing and deploying the PostgreSQL database, writing backend unit tests, and writing parts of the pipeline used in continuous integration.

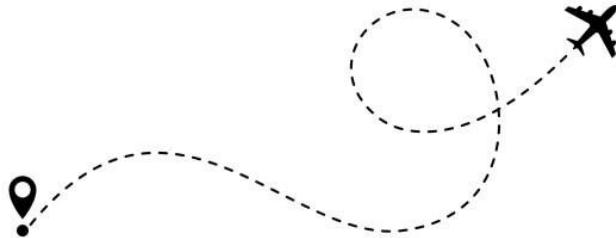


# Jesse Huang

I'm Jesse Huang and my contributions to Travelwise included mainly backend documentation; I diagrammed both the UML and DB diagrams as well as pretty much handled the entire scope of Postman such as the tests and documentation. I also managed some user stories which led to some smaller additions to the front-end such as the icons, the footer, and an animation.



# Purpose



Travelwise is a platform for users to compare destinations by safety, location, and Covid statistics. Travelwise streamlines the process of making travel plans by allowing users to search for critical information all in one place. Our intended users are travelers curious about their destination or simply anyone who is curious about the travel data we provide.

# About Page

 TRAVELWISE [Cities](#) [Airports](#) [Covid-19](#) [Visuals](#) [ProviderVisuals](#) [About](#)

## Don't just travel, TravelWise!

This is Travelwise, a group dedicated to getting you from point A to point B as safely as possible in these uncertain times. Travelwise is an ideal platform for users to compare destinations by safety, location, and Covid statistics. Travelwise streamlines the process of making travel plans by allowing users to search for critical information all in one place. Our intended users are travellers curious about their destination and simply anyone who is curious about the travel data we provide.



**Mitchell Watkins** [LinkedIn](#)  
You can't code away all your problems in life ~\_~

**Role:** Back-End Developer  
**Gitlab:** mitchellwatkins125

- Commits: 77
- Issues: 17
- Unit Tests: 10



**Dung Trinh** [LinkedIn](#)  
Danny started out wanting to do advanced AI research; he now cries on every React project he works on.

**Role:** Project Lead  
**Gitlab:** Danny-Trinh

- Commits: 183
- Issues: 38
- Unit Tests: 11



**Jesse Huang** [LinkedIn](#)  
Jesse also started out interested in AI; he now would like to make cool phone games.

**Role:** Back-End Developer  
**Gitlab:** jessehuang

- Commits: 41
- Issues: 5
- Unit Tests: 18





# Our Model Pages

## Cities

Search for your destination to get comprehensive danger scores in a number of categories.

Note: Lower score is better, 0 means N/A.

Sort by: City | Order: Ascend | Search: |

Items Per Page: 9 | Filter: Country |

City	Country	Region	Overall	LGBTQ	Medical	Physical	Political	Theft	Women
<a href="#">15th arrondissement of Paris</a>	France	Île-de-France	41	0	0	0	28	0	0
<a href="#">Abuja</a>	Nigeria	Federal Capital Territory	0	0	0	0	0	0	0
<a href="#">Adana</a>	Turkey	Adana Province	65	0	0	0	77	0	0
<a href="#">Addis Ababa</a>	Ethiopia	Addis Ababa	68	0	0	0	0	0	0
<a href="#">Ahmedabad</a>	India	Gujarat	76	80	85	77	70	76	70
<a href="#">Ahvaz</a>	Iran	Khuzestan Province	70	95	0	72	0	60	49
<a href="#">Al-Matiariyah</a>	Egypt	Cairo Governorate	70	85	0	66	0	68	70
<a href="#">Alexandria</a>	Egypt	Alexandria Governorate	70	0	0	0	0	0	0
<a href="#">Ankara</a>	Turkey	Ankara Province	61	0	0	0	80	48	73

279 results, 31 pages

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## Airports

Get useful information from your destination airport like Covid-19 information or city safety.

Sort by: Airport | Order: Ascend | Search: |

Items Per Page: 9 | Filter: Country |

Airport	Airport Code	City	Country	Latitude	Longitude	Timezone
<a href="#">AL RODRIGUEZ INTL</a>	TIJ	<a href="#">TULIMA</a>	MEXICO	32.54334	-116.0736	-07:00
<a href="#">ABA SEGUD</a>	JIM	<a href="#">JIMMA</a>	ETHIOPIA	7.66445	36.81917	+03:00
<a href="#">ABA TENA D YILMA INTL</a>	DIR	<a href="#">DIRE DAWA</a>	ETHIOPIA	9.62473	41.85417	+03:00
<a href="#">ADOLFO SUAREZ BARAJAS</a>	MAD	<a href="#">MADRID</a>	SPAIN	40.49195	-3.56944	+02:00
<a href="#">AFONSO PENA INTL</a>	CWB	<a href="#">CURITIBA</a>	BRAZIL	-25.52861	-49.17583	-03:00
<a href="#">AHMAD YANI</a>	SRG	<a href="#">SEMARANG</a>	INDONESIA	-6.9725	110.3753	+07:00
<a href="#">AIRPORT</a>	BCN	<a href="#">BARCELONA</a>	SPAIN	41.29695	2.07834	+02:00
<a href="#">AIRPORT</a>	LBA	<a href="#">LEEDS BRADFORD</a>	UNITED KINGDOM	53.86584	-1.66055	+01:00
<a href="#">AIRPORT</a>	GON	<a href="#">GROTON NEW LONDON</a>	UNITED STATES OF AMERICA	41.33001	-72.04444	-04:00

245 results, 28 pages

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## Covid-19

Get the latest updates on Covid-19 statistics in almost any country.

Sort by: Country | Order: Ascend | Search: |

Items Per Page: 9 | Filter: Stats |

Country	Country Code	New Confirmed Cases	Total Confirmed Cases	New Deaths	Total Deaths
<a href="#">Afghanistan</a>	AF	77	39693	2	1472
<a href="#">Albania</a>	AL	167	15066	2	413
<a href="#">Algeria</a>	DZ	148	52804	6	1789
<a href="#">Andorra</a>	AD	128	2696	1	55
<a href="#">Angola</a>	AO	73	6031	4	212
<a href="#">Antigua and Barbuda</a>	AG	0	111	0	3
<a href="#">Argentina</a>	AR	15099	871468	515	23225
<a href="#">Armenia</a>	AM	614	55087	6	1010
<a href="#">Australia</a>	AU	18	27244	0	897

188 results, 21 pages

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# Our Instance Pages

Afghanistan (AF)



Statistics

 New Confirmed Cases 77	 Total Confirmed Cases 39693
 New Deaths 2	 Total Deaths 1472

A.L. RODRIGUEZ INTL



Statistics

 Coordinates (32.54334, -106.9734)	 Time Offset -0700	 Covid Stats <a href="#">Mexico</a>
--	--	---

Abuja, Nigeria



Statistics

 Region Federal Capital Territory	 Overall Danger 0	 LGBTQ Danger 0
 Medical Danger 0	 Physical Danger 0	 Political Unrest 0
 Theft Danger 0	 Women Danger 0	 Covid Stats <a href="#">Nigeria</a>



# User Experience/Interface

- Lo-fi colors
- Teal Theme
- Minimalist Design (no unnecessary elements)
- Minimal Animations, enough to attract eyes but not enough to distract
- Information Focused



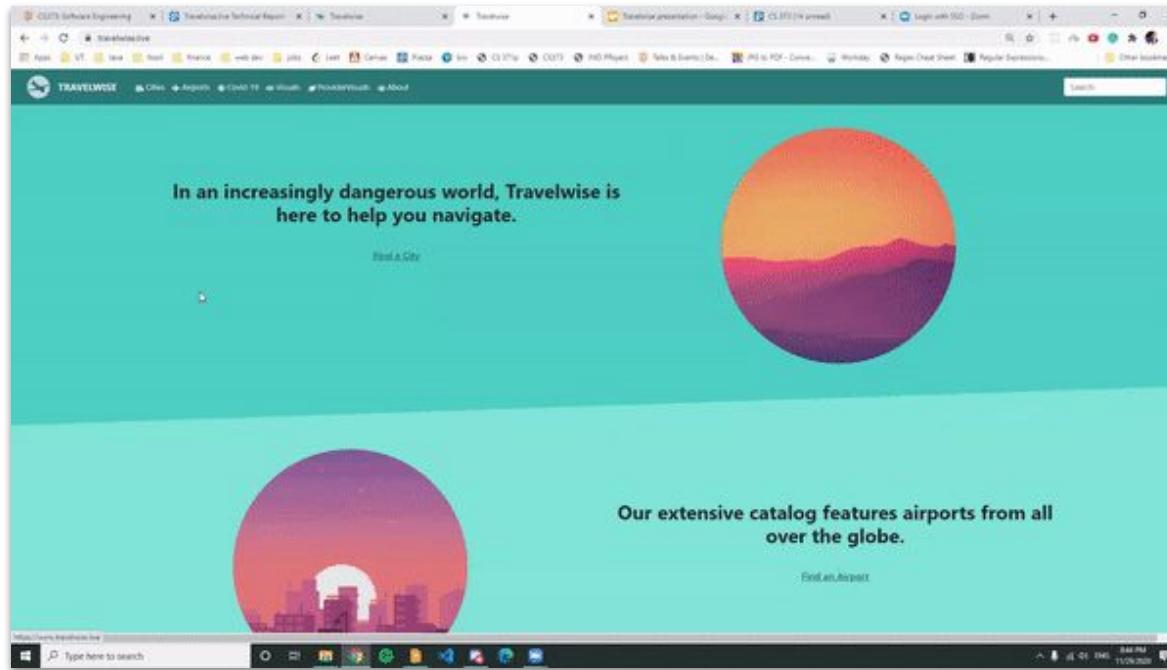
Find an Airport

Find the latest COVID-19 data for every country.

Get Informed



# Animations (there's a video here, won't translate to pdf though)



# Functionalities

Sorting: users may sort info by ascending attribute value or descending value

**Covid-19**

Get the latest updates on Covid-19 statistics in almost any country.

Total Cases	X   ↗	Descending	↘	Search:
Items Per Page: 9		Filter: Stats	↘	
Country	Country Code	New Confirmed Cases	Total Confirmed Cases	
<a href="#">United States of America</a>	US	57420	7663293	
India	IN	73272	6979423	
Brazil	BR	27444	5055888	
<a href="#">Russian Federation</a>	RU	11969	1265572	
<a href="#">Colombia</a>	CO	8121	894300	
<a href="#">Argentina</a>	AR	15099	871468	
Spain	ES	12788	861112	
<a href="#">Peru</a>	PE	2952	838614	
<a href="#">Mexico</a>	MX	5532	810020	

188 results, 21 pages

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Filtering: Users may sort by specific attribute values

**Airports**

Get useful information from your destination airport like Covid-19 information or city safety.

Sort by: Airport	↗	Order: Ascend	↘	Search:
Items Per Page: 9		Argentina	↘	
Airport	Airport Code	City	Country	
<a href="#">ANTOINE DE ST EXUPERY</a>	OES	<a href="#">SAN ANTONIO OESTE</a>	ARGENTINA	
<a href="#">ASTOR PIAZZOLA</a>	MDQ	<a href="#">MAR DEL PLATA</a>	ARGENTINA	
<a href="#">BUENOS AIRES</a>	BUE	<a href="#">BUENOS AIRES</a>	ARGENTINA	
<a href="#">ISLAS MALVINAS</a>	ROS	<a href="#">ROSARIO</a>	ARGENTINA	
<a href="#">LA PLATA</a>	LPG	<a href="#">LA PLATA</a>	ARGENTINA	

# Functionalities

Model Search: users may search for specific values within a model

## Covid-19

Get the latest updates on Covid-19 statistics in almost any country.

Sort by: Country | Order: Ascend | new (circled)

Items Per Page: 9 | Filter: Stats

Country	Country Code	New Confirmed Cases	Total Confirmed Cases
New Zealand	NZ	4	1870
Papua New Guinea	PG	0	549

2 results, 1 pages  
prev | 1 | next

Website Search: users may search our entire catalog for any specific values

## Cities

Cities	Country	Region	Overall	LGBTQ	Medical	Physical	Political	Theft	Women
Rosario	Argentina	Santa Fe Province	0	0	0	0	0	0	0
La Plata Partido	Argentina	Buenos Aires Province	0	0	0	0	0	0	0
La Matanza Partido	Argentina	Buenos Aires Province	52	44	0	40	60	47	48
Cordoba	Argentina	Cordoba Province	55	0	0	0	60	0	0

prev | 1 | 2 | 3 | next

## Airports

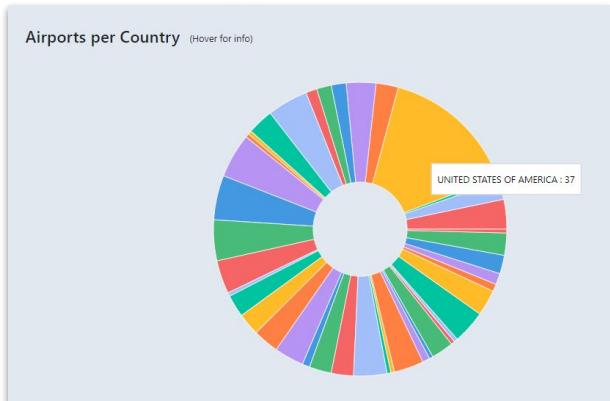
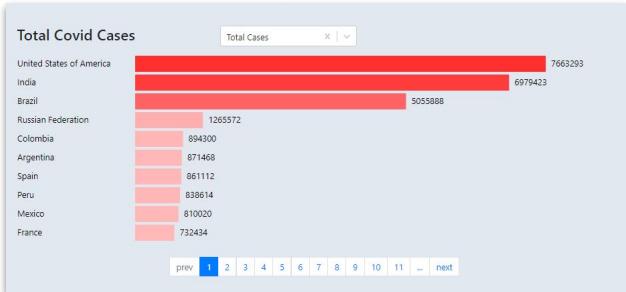
Airport	Airport Code	City	Country	Latitude	Longitude	Timezone
ISLAS MALVINAS	ROS	ROSIARIO	ARGENTINA	-32.90361	-60.785	0
LA PLATA	LPG	LA PLATA	ARGENTINA	-34.96666	-57.89222	0
ASTOR PIAZZOLA	MDQ	MAR DEL PLATA	ARGENTINA	-37.93416	-57.57333	0
ANTOINE DE ST EXUPERY	OES	SAN ANTONIO OESTE	ARGENTINA	-40.75194	-65.03277	0

prev | 1 | 2 | next

## Covid-19

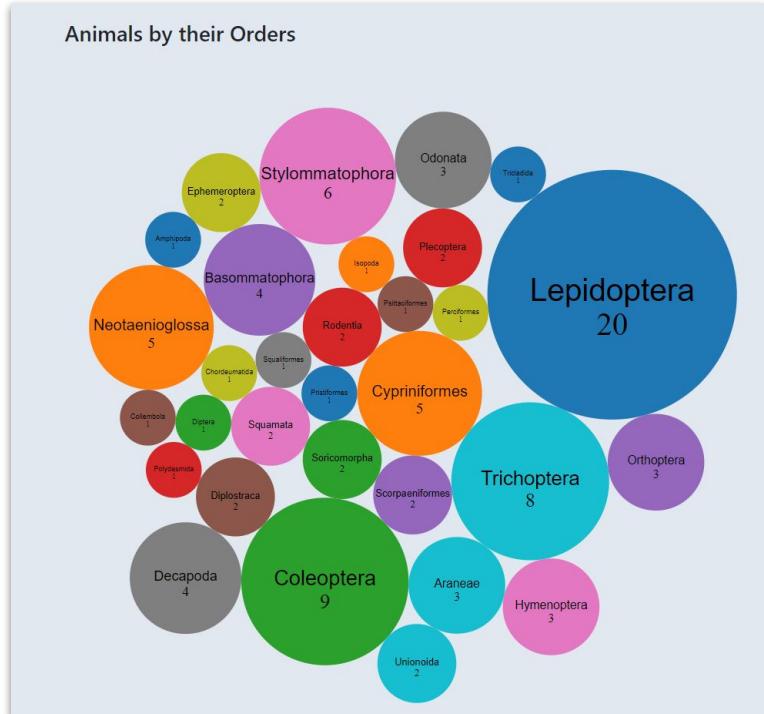
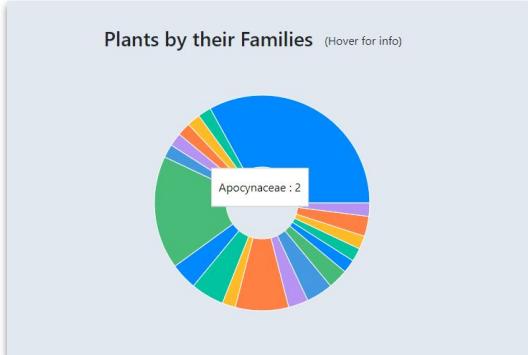
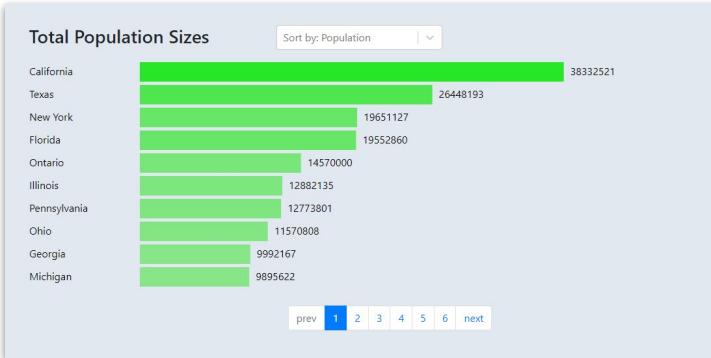
Country	Country Code	New Confirmed Cases	Total Confirmed Cases	New Deaths	Total Deaths
Argentina	AR	13099	871468	515	23225

# Our Visualizations





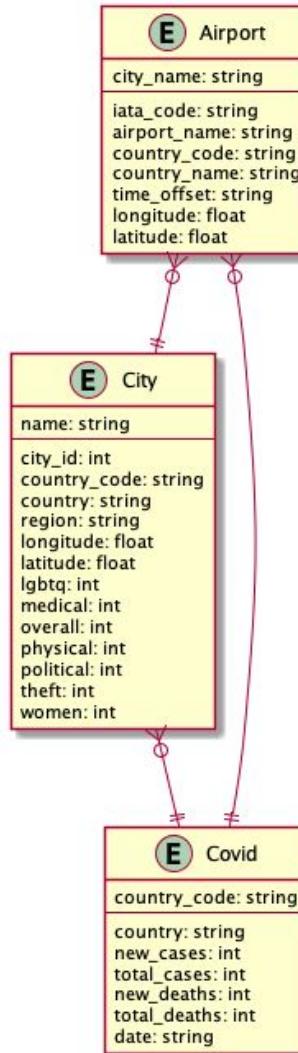
# Plant Planet Visualizations





# UML

- Each model is represented as a table in the database.
- “Covid” slightly misleading. This is more like a country model that has mostly covid attributes.
- Each model is on the end of a “one-to-many” relation, e.g. there can be many airports in one city, but there can not be one airport located in many cities





# pgAdmin4

- Allowed for us to create and operate on PostgreSQL databases without having to write much code
- Helped export our local database to Amazon Web Services
- As a result of the “view all rows” button and other integrated query tools, we saved a lot of time in the debugging process.

The screenshot shows a context menu for a table named 'covid' within a database. The menu items are:

Item	Action
Tables (3)	Delete/Drop
airports	Drop Cascade
cities	Reset Statistics
covid	Import/Export...
Columns (7)	Maintenance...
country_code	Scripts >
country	Truncate >
new_cases	Backup...
total_cases	Restore...
new_deaths	
total_deaths	
date	
Constraints (1)	
covid_pkey	
Indexes	
RLS Policies	

The 'View/Edit Data' option under 'Maintenance...' is highlighted with a blue background, and the 'All Rows' button next to it is also highlighted.



# COVID data in 1 of our 3 tables

- On the right is actual data from our database hosted on Amazon queried using pgAdmin4
- Each table features 2 foreign keys: attributes of one table that are the primary key of another table.

public.covid/travel\_wise\_db/postgres@amazon

Query Editor    Query History    Scratch Pad

```
1 SELECT * FROM public.covid
2 ORDER BY country_code ASC
```

Data Output   Explain   Messages   Notifications

	country_code [PK] character varying[]	country character varying[]	new_cases bigint	total_cases bigint	new_deaths bigint	total_deaths bigint	date character varying[]
1	{AD}	{Andorra}	128	2696	1	55	{2020-10-10T19:36:09Z}
2	{AE}	{"United Arab Emirates"}	1075	104004	4	442	{2020-10-10T19:36:09Z}
3	{AF}	{Afghanistan}	77	39693	2	1472	{2020-10-10T19:36:09Z}
4	{AG}	{"Antigua and Barbuda"}	0	111	0	3	{2020-10-10T19:36:09Z}
5	{AL}	{Albania}	167	15066	2	413	{2020-10-10T19:36:09Z}
6	{AM}	{Armenia}	614	55087	6	1010	{2020-10-10T19:36:09Z}
7	{AO}	{Angola}	73	6031	4	212	{2020-10-10T19:36:09Z}
8	{AR}	{Argentina}	15099	871468	515	23225	{2020-10-10T19:36:09Z}
9	{AT}	{Austria}	1131	53188	4	842	{2020-10-10T19:36:09Z}
10	{AU}	{Australia}	18	27244	0	897	{2020-10-10T19:36:09Z}
11	{AZ}	{Azerbaijan}	215	41519	2	605	{2020-10-10T19:36:09Z}



# Postman Documentation

- Two main requests per model
  - All
  - Search by attribute and sort or filter
- All search parameters are optional and can be concatenated with other parameters e.g.  
.../search?country\_code=US&sort=medical

- **cities**
  - **GET** City Safety - all
  - **GET** City Safety - search
- **airport**
  - **GET** Airports - all
  - **GET** Airports - search
- **covid**
  - **GET** COVID-stats - all
  - **GET** COVID-stats - search

**GET** City Safety - search

```
https://api.travelwise.live/cities/search?city_id=<string>&name=<string>&country=<string>&region=<string>&sort=<[name, city_id, country_code, country, region, longitude, latitude, lgbtq, medical , overall, physical, political, theft, women]>&filter=<[city_id, longitude, latitude, lgbtq, medical, overall, physical, political, theft, women]><[[GTE], [LTE]]><integer>&country_code=<string>
```

returns data on safety score of searched cities along with country, coordinates, and region

**PARAMS**

Parameter	Type	Description
city_id	<string>	optional- search for id
name	<string>	optional- search for city name
country	<string>	optional- search for cities in country
region	<string>	optional- search for cities in region
sort	<[name, city_id, country_code, country, region, longitude, latitude, lgbtq, medical , overall, physical, political, theft, women]>	optional- sort alphabetically or numerically by specified parameter. put '-' before parameter to reverse order
filter	<[city_id, longitude, latitude, lgbtq, medical, overall, physical, political, theft, women]><[[GTE], [LTE]]><integer>	optional- filter results by parameter to be greater than or equal to or less than or equal to value
country_code	<string>	optional- search for cities in country by country code



# Self Critique

- What did we do well?
  - I think our team managed time extremely well by always being on time with implementations especially considering a lot of us had no prior experience with the technologies required for the project.
- What did we learn?
  - I think the most valuable we learned was how a full-stack project gets made and how much work/technology goes into both front-end and back-end.
- What did we teach each other?
  - We taught each other how to use the technologies we did research on. Mitchell helped me with Docker images and having prior experience in React, I gave everyone a run-down on what I knew.
- What can we do better?
  - We split off into back-end and front-end because of time constraints and not necessarily because we were specialized. I believe our product would have been better if both teams had the experience we do now.
- What effect did the peer reviews have?
  - The reviews helped us keep everyone accountable.
- What puzzles us?
  - One thing that we could not figure out was setting up javascript DOM tests on our gitlab pipeline, it was a typescript that none of us could seem to figure out.



# Other Critique

- What did they do well?
  - Plant Planet were very proactive in communicating with us and I presume in their own group. One time I needed some help with their website and they reached out immediately.
- How effective was their RESTful API?
  - As someone who implemented their API on our websites visuals, I think their database is great. The organization of their API was very logical and easy to follow
- How well did they implement your user stories?
  - Most of our user stories were addressed right away and we could tell on some of them that a lot of work was put in. They always communicated to us if they needed clarification and overall we are very satisfied.
- What did we learn from their website?
  - We learned about many interesting plants, animals, and associated regions. The site made it very easy to see the relationships between animals and plants.
- What can they do better?
  - We thought their theme was not consistent and definitely saw that they had a vision in mind but did not have time to execute it throughout their entire website.
- What puzzles us about their website?
  - Initially we were having some problems with their API but it was due to a weird development/production misunderstanding and we were using their production while we should have been accessing their development website.