

Website Information

What is the website about?

Help people who have plan to move in the future.

Provide information of the most livable places.

Background and purpose?

Almost one quarter of Canadians moved or plan to move since April 2020 cited COVID-19 as a reason for relocating.

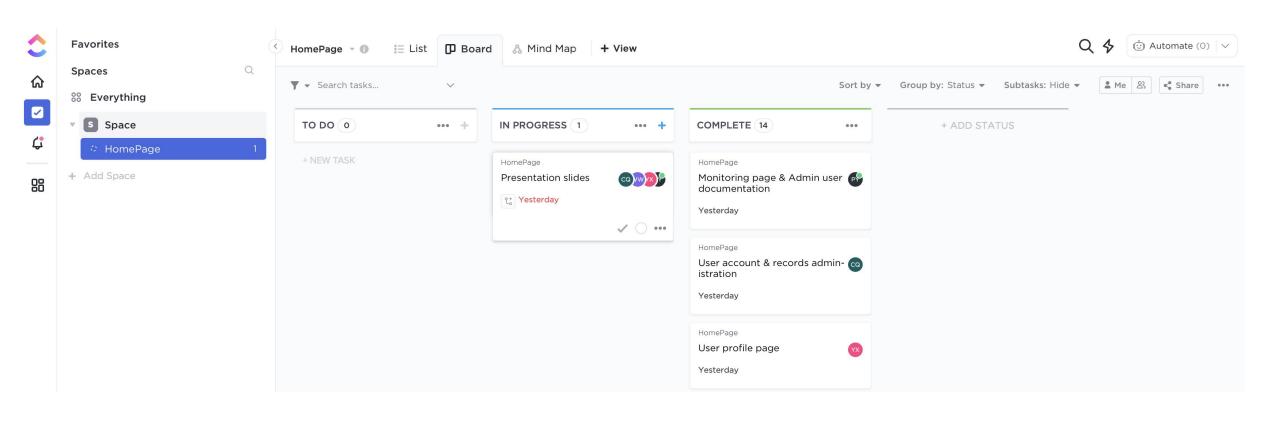
On our website, you may get information of 166 most livable cities/towns in Canada. This may help you find your dream city!



URLs

- Live Site (MyWeb)
 - URL https://qiao6.myweb.cs.uwindsor.ca/project
- Test Site (AWS Lightsail)
 - URL https://newcitybetterlife.com
- Documentation
 - URL https://project-comp3340.gitbook.io/project/
- Team Communication Tool
 - URL https://clickup.com
- Code Repository
 - URL https://github.com/ChenQiao310/Project-COMP3340

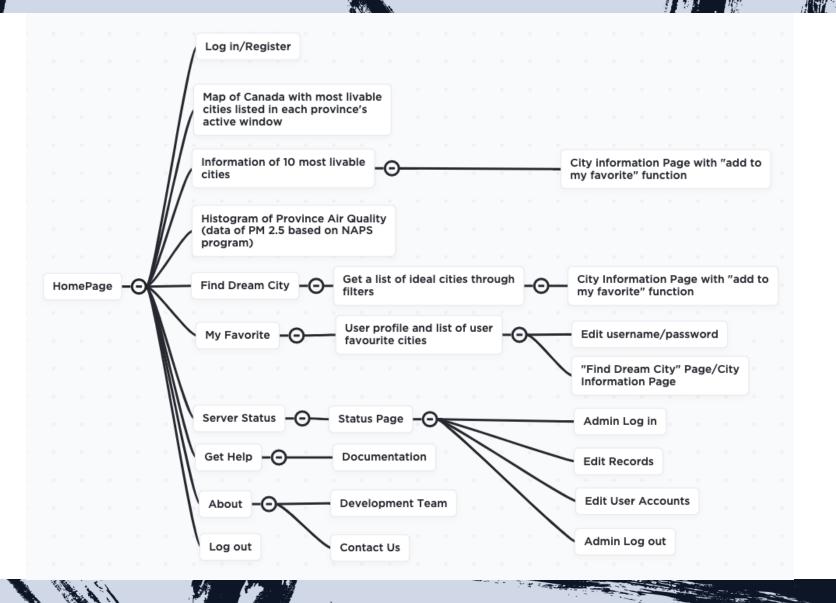


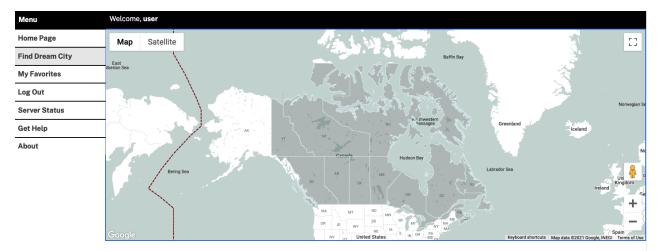


Project Team Management Tool

ClickUp.com

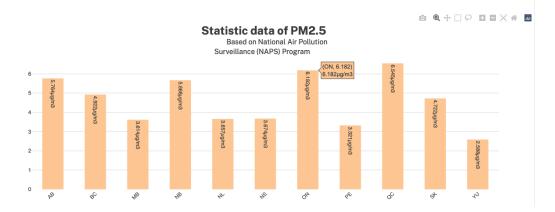
Sitemap





Canada's Top 10 Most Livable Cities

Rank	City/ Town	Prov	Pop. (Latest)	Pop. Growth	Avg Home Price 2020	Avg 1-year home price growth	Avg Mortgage Payment (20% Down)	Minimum Income Required (20% Down)	Scenery Rating
1	Langford	BC	42,653	5.2%	\$725,300	11.6%	\$3,024	\$107,604	***
2	Kelowna	ВС	222,748	2.0%	\$553,175	5.6%	\$2,307	\$86,616	***
3	Trois-Rivières	QC	163,287	1.5%	\$224,600	32.8%	\$937	\$48,866	***
4	Bathurst	NB	31,691	0.0%	\$112,850	0.3%	\$471	\$34,444	***
5	Rossland	ВС	4,108	2.5%	\$443,889	39.9%	\$1,851	\$73,477	***
6	Niagara-on-the-Lake	ON	18,865	1.3%	\$515,000	32.1%	\$2,147	\$86,848	****
7	Cowichan Bay	ВС	90,448	1.2%	\$561,900	16.5%	\$2,343	\$85,415	****
8	Sydney	NS	95,901	-0.3%	\$157,338	49.9%	\$656	\$43,055	***
9	Penticton	ВС	46,885	0.9%	\$523,386	21.7%	\$2,182	\$83,821	****
10	Quebec City	QC	832,328	0.9%	\$283,000	11.4%	\$1,180	\$55,724	****

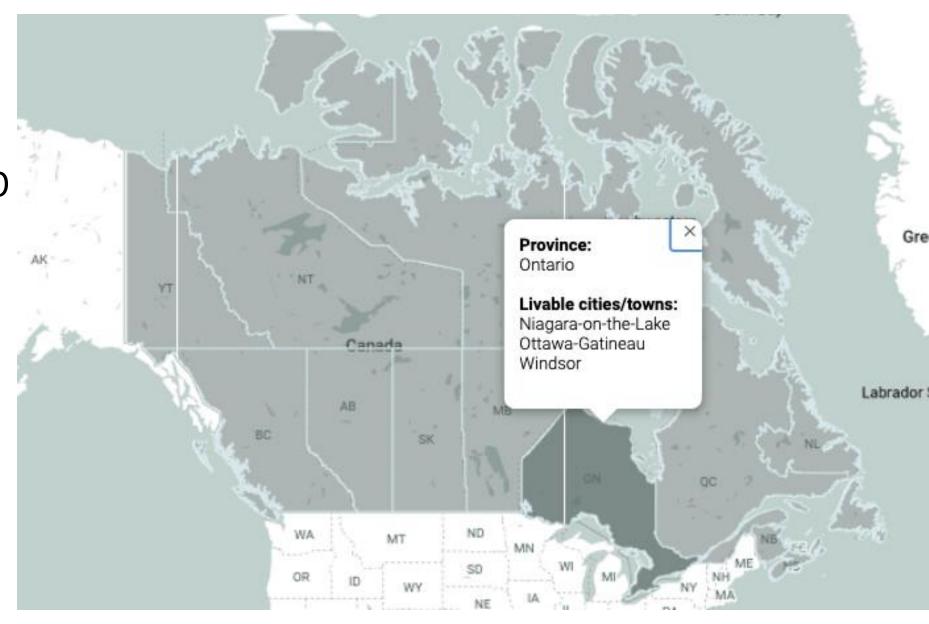


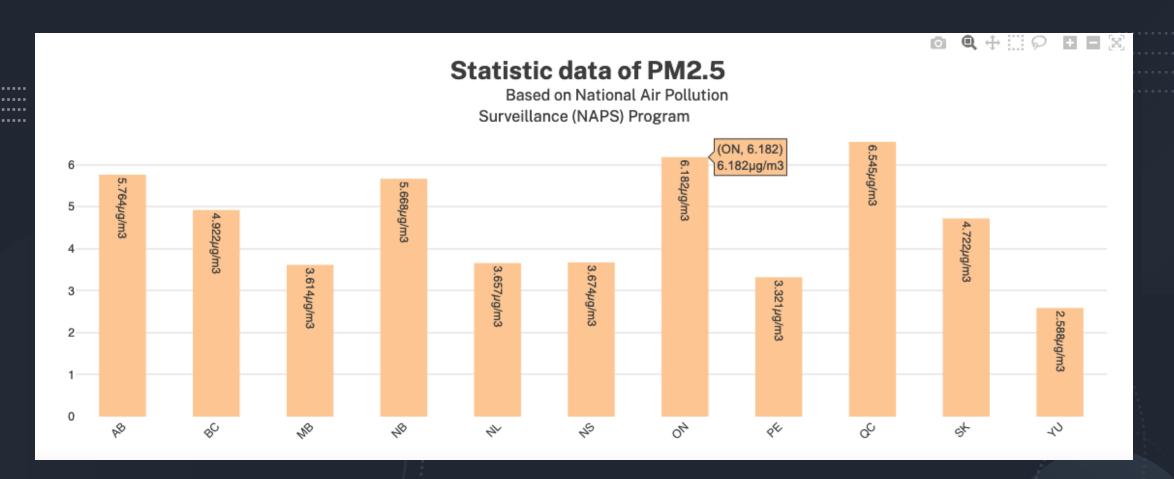
Home Page

- Interactive Menu
- Interactive Map
- List of livable cities
- Data visualization

Frontend Interfaces— Interactive Map

- Google Map
- GeoJSON
- Array of JavaScript





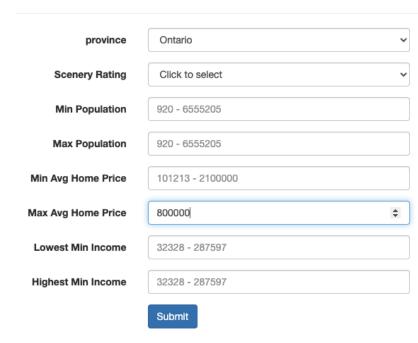
Frontend Interfaces— Statistic Data of PM2.5

- Plotly JS Graphing Library
- Open-data set—National Air Pollution Surveillance Program
- https://open.canada.ca/data/en/dataset/1b36a356-defd-4813-acea-47bc3abd859b

Frontend Interfaces— Find Dream City

- Bootstrap
- Get data through POST
- Database->table "cities"
- SQL query
- PHP generate table

FILTERS

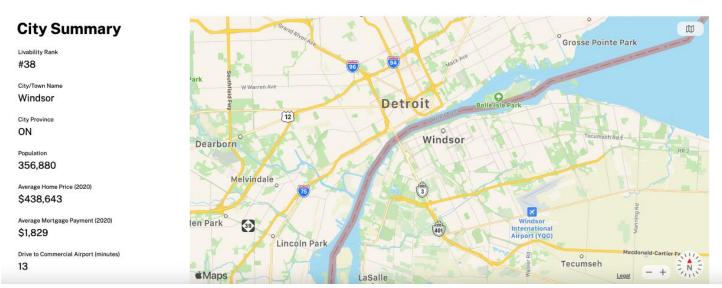


11	Rank	City/Town	Province	Population	Avg Home Price	Min Income Required	Scenery Rating
	6	Niagara-on-the-Lake	ON	18865	\$515000	\$86848	☆☆☆☆ ☆
	16	Ottawa-Gatineau	ON	1461494	\$545500	\$90982	☆☆☆☆
	38	Windsor	ON	356880	\$438643	\$84673	☆☆
	39	Sault Ste. Marie	ON	81238	\$224960	\$50450	☆☆
	40	Picton	ON	4702	\$546053	\$96269	☆☆☆☆

Frontend Interfaces— City Information Page (Dynamic)

- Apple MapKit JS for advanced map display
- Can add cities to persistent account favorite list
- PHP GET + database to generate dynamic pages
- 166 total dynamic pages





Hello, User

Here is the list of cities you like!

Rank	City/Town	Province	Population	Avg Home Price	Min Income Required	Scenery Rating
1	Langford	BC	42653	\$725300	\$107604	☆☆☆☆
38	Windsor	ON	356880	\$438643	\$84673	☆☆
72	Kingston	ON	176184	\$504712	\$89353	$\triangle \triangle \triangle$
30	Victoria	ВС	408883	\$736400	\$109157	☆☆☆

If you want to change your username or password

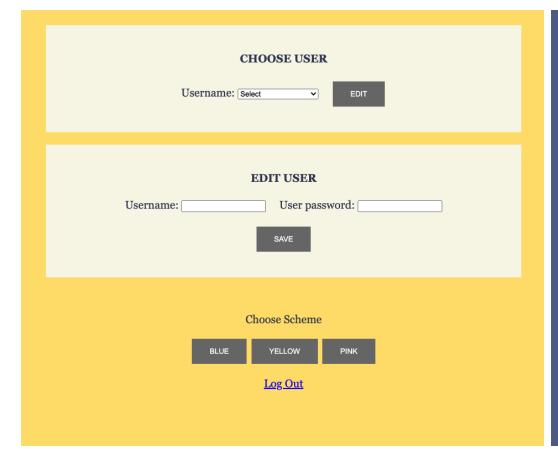
Click Here

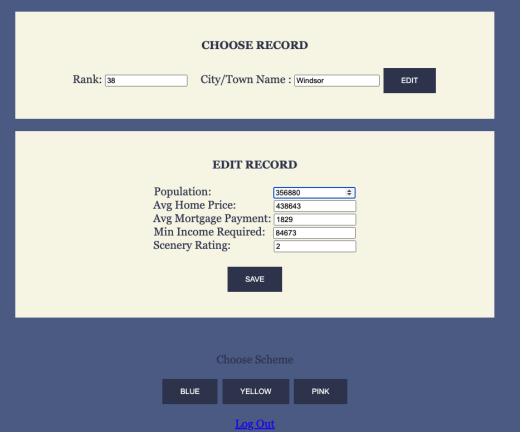
Frontend Interfaces —User Profile (Private Area)

- Get username form \$_SESSION['username']
- If !isset \$_SESSION['username'], header('location:login.php');
- Retrieve favorite cities from table "favorite"
- Retrieve user information from table "users"
- Also change it in table "favorite"
- Redirect to login after changing

Edit Here

User User 123123

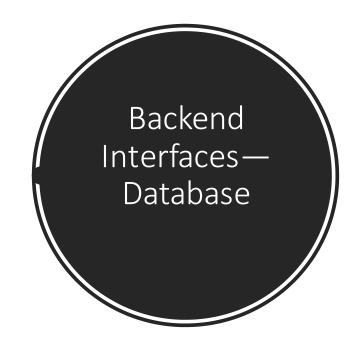




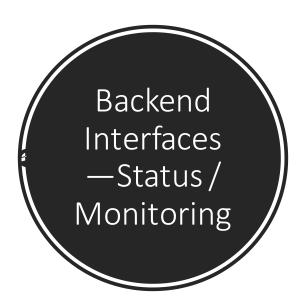
Frontend Interfaces— Admin interface

- Switch theme through \$_SESSION['color']
 Store .css file name in \$_SESSION['color']
- User info and Record administration
 Connect to database, fetch record through SQL query
 Update tables through SQL request

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	rank 🔑	int(11)			No	None		
2	city_town	varchar(89)	utf8_unicode_ci		No	None		
3	province	varchar(13)	utf8_unicode_ci		No	None		
4	population	int(11)			No	None		
5	avg_home_price_2020	int(11)			No	None		
6	avg_mortgage_payment_20_down	int(11)			No	None		
7	min_income_required_20_down	int(11)			No	None		
8	proximity_to_large_water_body	bit(1)			No	None		
9	proximity_to_mountains	bit(1)			No	None		
10	scenery_rating	int(11)			No	None		
11	nightlife_rating	int(11)			No	None		
12	outdoor_activity_rating	int(11)			No	None		
13	climate_rating	int(11)			No	None		
14	drive_to_commercial_airport_minutes	int(11)			No	None		
15	summary	varchar(255)	utf8_unicode_ci		Yes	NULL		
16	latitude	decimal(10,7)			No	None		
17	longitude	decimal(11,7)			No	None		
18	link	varchar(255)	utf8_unicode_ci		Yes	NULL		



- qiao6_comp3340	Table _	Ac	tion						Rows @	Туре	Collation	Size	Overhead
—⊪ New	admins	★	Browse		Search	₃ Insert	mpty	Drop	2	InnoDB	utf8_unicode_ci	16.0 KiB	-
+_ admins	cities		Browse		Search	₃ Insert	mpty	Drop	166	InnoDB	utf8_unicode_ci	64.0 KiB	-
t-1 cities	favorites	*	Browse	M Structure	Search	₃ Insert	Empty	Drop	13	InnoDB	utf8_unicode_ci	16.0 KiB	-
⊕–	posts		Browse		Search	₃ Insert	mpty	Drop	2	InnoDB	utf8_unicode_ci	16.0 KiB	-
⊕– posts	provinces	*	Browse		Search	₃ Insert	mpty	Drop	13	InnoDB	utf8_unicode_ci	16.0 KiB	-
provinces	users		Browse		Search	≩ Insert	me Empty	Drop	10	InnoDB	utf8_unicode_ci	16.0 KiB	-
⊕- users	6 tables	Su	m						206	InnoDB	utf8_unicode_ci	144.0 KiB	0 в



- Access point for admin-only features such as editing users, city records, deleting notifications, and posting notifications.
- Monitors status of server's primary services
- Display's server information
- Display's system notifications and announcements for all users (and only admins can create or delete announcements)

System Notifications Post System Notification Administrator (admin1) **Notification Title Notification Content** Post Notification Announcement: This page can now detect real admins Posted by admin1 Looks like we can use the admins now to post on this page! Only admins will be able to post. This form and the post delete buttons are now hidden from regular users. 2021-07-26 19:33:57 Delete Announcement: Admin Checks Disabled Posted by yupao

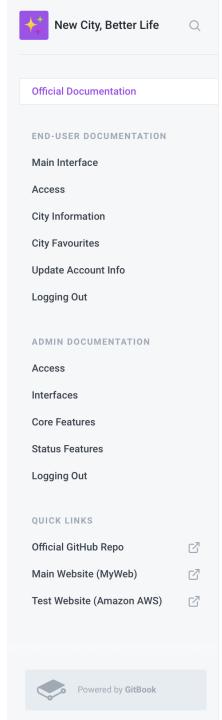
New City Better Life | System Status

Server Status						
Service Name	Port	Status				
Apache (HTTP)	80	Online 🗸				
Apache (HTTP/SSL)	443	Online 🗸				
Secure Shell (SSH)	22	Online 🗸				
File Transfer Protocol (FTP)	21	Online 🗸				
MySQL Database	3306	Online 🗸				
Internet Connection	80	Online 🗸				

Server information						
Server Name	qiao6.myweb.cs.uwindsor.ca/project					
Software	Apache/2					
Server Protocol	HTTP/1.1					
Server IP	137.207.76.172					
Port Accessed	80					
CGI Ver.	CGI/1.1					
HTTP Lang.	en-ca					

Official Documentation

- Hosted on GitBook
- End-User Documentation and Instruction Manual
- Admin Documentation and Instruction Manual
- Accessible through the Main Menu Navigation Dropdown or the GitHub Repo README.md



Official Documentation

This document contains instructions on using a Project-COMP3340 (New City, Better Life™) from the perspective of both end-user roles and administrator roles, created Project Team 9.

Welcome to the Official Documentation!

Thank you for using our site. This external website is dedicated to documenting how to use our website from the perspective of an end-user and a website system adminstrator. Please check out the links below (or make a selection on the left sidebar) to navigate to the documentation pages that you need.

/end-user-documentation



Quick Links

Test Website (Amazon AWS)

Done with reading the documentation? Here are some quick links to get you back on track:





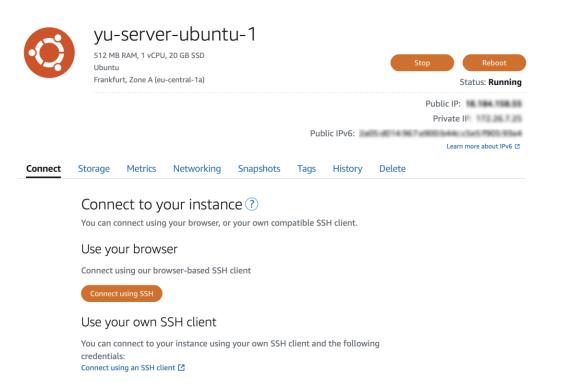








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Testing Strategies (AWS Lightsail)

 Independent, custom test server to test software versions and external deployments

Testing Strategies

Use an independent test server for third-party developer's code deployment testing and code compatibility.

Use an external GitHub Repository forks and repo branches to test new and experimental features.

Creation and utilization of a CI (Continuous Integration) tool to be able to test and deploy into multiple servers at the same time

