New student in the town

Yassine Barhoumi

Introduction:

When it comes to new comers to a certain place, whether a tourist or a visitor or in our case a student, the first question that comes into the mind, "From where can I buy food?!" but later on a list of needs will appear without you noticing, and spending time to know what you need and from where you can take what you need will be a burden and take a lot of time. Hence in this project we wanted to make it easy for people to know all the leisure and necessity based on a location of interest.

In our case a student wants to fix all or restaurants, bars libraries parks café based on the location of the on campus housing place. The student will name his university, the university, based on base that contain locations of all universities, will be located and automatically gives the different places of interest priorly defined.
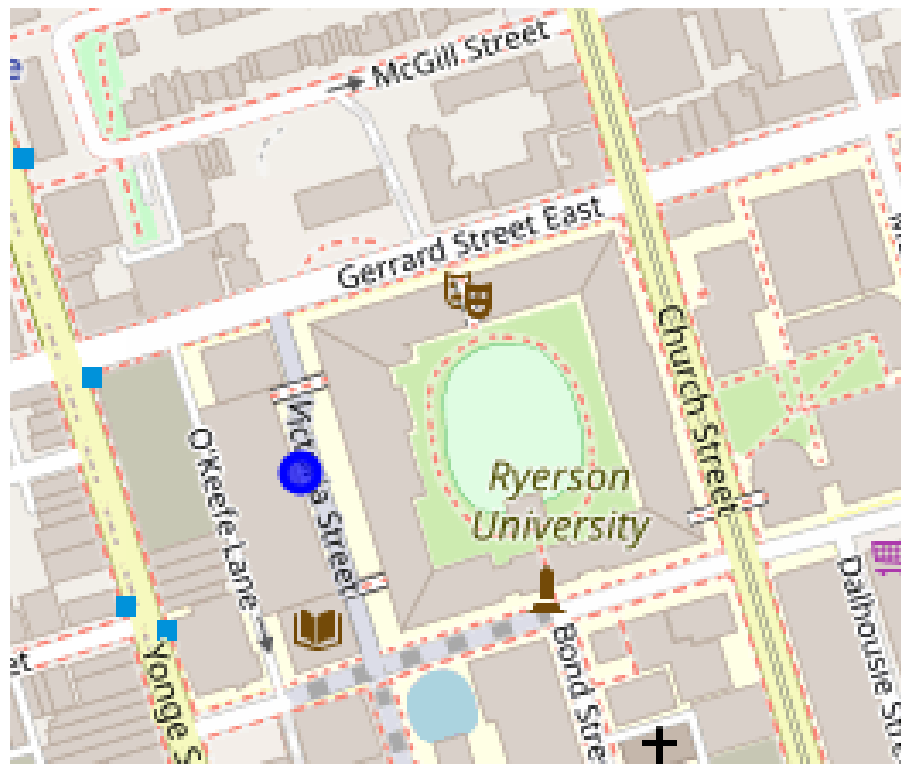
1. A description of the problem and a discussion of the background:

In this project we are going to use the foursquare Developers provided in this course to define a specific area located in Toronto, Canada and discover all areas of interest that a new resident would eventually eager to go, and are the nearest to his residency.
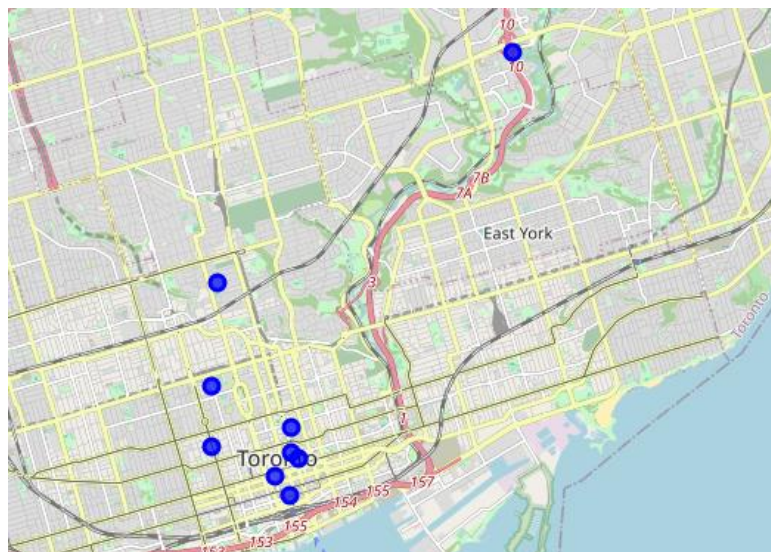
2. A description of the data and how it will be used to solve the problem

The foursquare developers provides the landscape data with all information about the area of interest

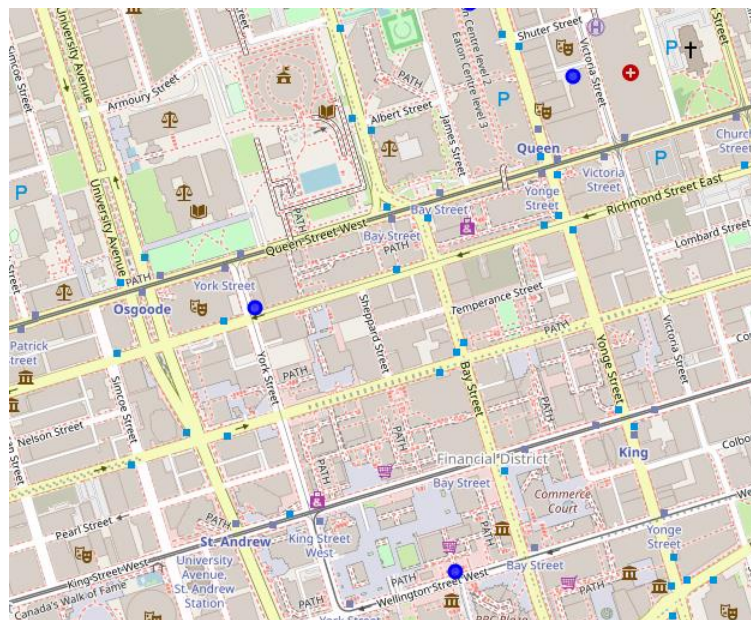For step is to identify the dorms of the university as follow:

Secondly, identify all of the places of interest without specifying, as follow:

Marked in the following table:

	name	categories	address	lat	lng	postalCode	state
0	Queen's Park	Park	University Ave.	43.663946	-79.392180	M5R 2E8	ON
1	Trinity Bellwoods Park	Park	1053 Dundas St. W.	43.647072	-79.413756	M5H 2N2	ON
2	Riverdale Park West	Park	500 Gerrard St.	43.666048	-79.360941	M5A 2H3	ON
3	Riverdale Park East	Park	550 Broadview Ave	43.669951	-79.355493	M4K 2P1	ON
4	Bellevue Square Park	Park	btwn Bellevue & Augusta Ave.	43.653610	-79.402199	M5T 2N4	ON
5	Coronation Park	Park	711 Lake Shore Blvd. W	43.634553	-79.405403	M5V 3T7	ON
6	High Park	Park	1873 Bloor St. W	43.646479	-79.463425	M6R 2Z3	ON
7	Hemispheres Restaurant & Bistro	American Restaurant	110 Chestnut Street	43.654884	-79.385931	M5G 1R3	ON
8	Victoria's Restaurant	Restaurant	37 King Street East	43.649298	-79.376431	M5C 1E9	ON
9	New Sky Restaurant 小沙田食家	Chinese Restaurant	353 Spadina Ave.	43.655337	-79.398897	M5T 2G3	ON
10	Aroma Fine Indian Restaurant	Indian Restaurant	287 King St. W	43.646463	-79.389644	M5V 1J5	ON
11	Rol San Restaurant 龍笙棧	Dim Sum Restaurant	323 Spadina Ave.	43.654318	-79.398650	M5T 2E9	ON
12	Azure Restaurant & Bar	Restaurant	225 Front St W	43.644749	-79.385113	M5V 2X3	ON
13	Victor Restaurant & Bar	Bar	30 Mercer Street	43.645634	-79.391125	M5V 1H3	ON
14	The Hot House Restaurant & Bar	American Restaurant	35 Church St	43.648824	-79.373702	M5E 1T3	ON
15	Studio Restaurant	Breakfast Spot	389 Church St.	43.661500	-79.379319	M5B	ON
16	Green Tea Restaurant Downtown	Chinese Restaurant	261 Spadina Avenue. Upper level	43.652488	-79.397501	M5T 2E3	ON
17	Goldstone Noodle Restaurant 金石	Noodle House	266 Spadina Ave	43.652278	-79.398039	M5T 2E4	ON
18	Swatow Restaurant 汕頭小食家	Chinese Restaurant	309 Spadina Ave.	43.653866	-79.398334	M5T 2E6	ON
19	360 Restaurant	Wine Bar	301 Front St W	43.642537	-79.387042	M5V 2T6	ON
20	Ka Chi Korean Restaurant	Korean Restaurant	8 St Andrew St.	43.654307	-79.399277	M5T 1K6	ON
21	Cottage Restaurant & Lounge	Thai Restaurant	338 Jarvis St.	43.662770	-79.376894	M4Y 2G6	ON
22	Tasty's Caribbean Restaurant & Catering	Caribbean Restaurant	405 Spadina Ave	43.656794	-79.399251	M5T 2G6	ON

We take for example the following results of nearest Cinemas:

Conclusion

Foursquare is a powerful tool that enables us to build a robust algorithm of our desire and generalize it _all over the world,_ a good example was the life of a student especially a newcomer that want to discover the different places in the town. The project will be public and can be used by all the students all over the world easily.