

House to Rent in Selangor, Malaysia

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1.0 Introduction

In this section, we will discuss about the background and the problem to be solved.

1.1 Background

Everyone needs a place to stay and some might have their own preferences. A good place to stay are where we have adequate amenities, the basic surroundings a person needs. This can be a clinic nearby, schools, hospitals, grocery shops, and bank. Entertainment places are also considered as important as others for some. Even if we were able to find a good place, a place we prefer, the rental or number of rooms will be a problem. For some, there will be parking trouble as there might be limited parking or free parking which depends on the time.

I am looking for a house to rent. I am doing a part-time art business such as graphite sketch, charcoal sketch and acrylic painting. Currently, due to lack of rooms, I had to combine my studio with my bedroom. This caused some imbalance in my room as I felt the space, I need for my mini studio is expanding. Lack of space and having my important work papers around, it is easy for me to smudge the papers with my painting as well. Somehow, having a mini studio in my bedroom is disorganised in my view.

Currently I am living in a 3-bedroom house with my family members. Two rooms are occupied by my parents and brother; hence the studio was set up in my room. Since my business is growing and my art supplies are increasing, I would prefer to have a room allocated for my artspace. By that means, the mess will be in the studio room and will not extend to my bedroom. My current house is at Kajang, Selangor and I am looking for somewhere around Shah Alam.

1.2 Problem to be Solved

The challenge is to find a rental place in Shah Alam, Selangor which has some basic amenities. The criteria I am looking for are as per below:

- Rental price is not more than RM2,500.
- A house consists of 4 bedrooms.
- Basic amenities such as clinic, grocery shop and good restaurants.

1.3 Interested Audience

This project would attract people who would like to move to their preferable city with certain criteria. The methodology applied in this project is generic, which can be applied for different criteria and places as well.

2.0 Data

In this section, we will discuss about data and resources.

2.1 Required Data

Following data are used in this project:

- List of Selangor's main addresses
- Selangor state coordinates
- List of rental details in Shah Alam, Selangor
- Foursquare location data

List of Selangor's main address, Selangor state coordinates and list of rental details in Shah Alam, Selangor has been created and uploaded as CVS file in order to ease the file reading.

3.0 Methodology

In this section, we will discuss about how the data is used in this project.

Foursquare and geopy data will be used with the data mentioned above accordingly. List of Selangor's main addressess are merged with the Selangor coordinates and then merged with the rental price. To visualise the process, a few maps will be created by using foursquare and geopy which gives us better understanding on the area surrounding.

Below are the following key questions that will be answered in this project:

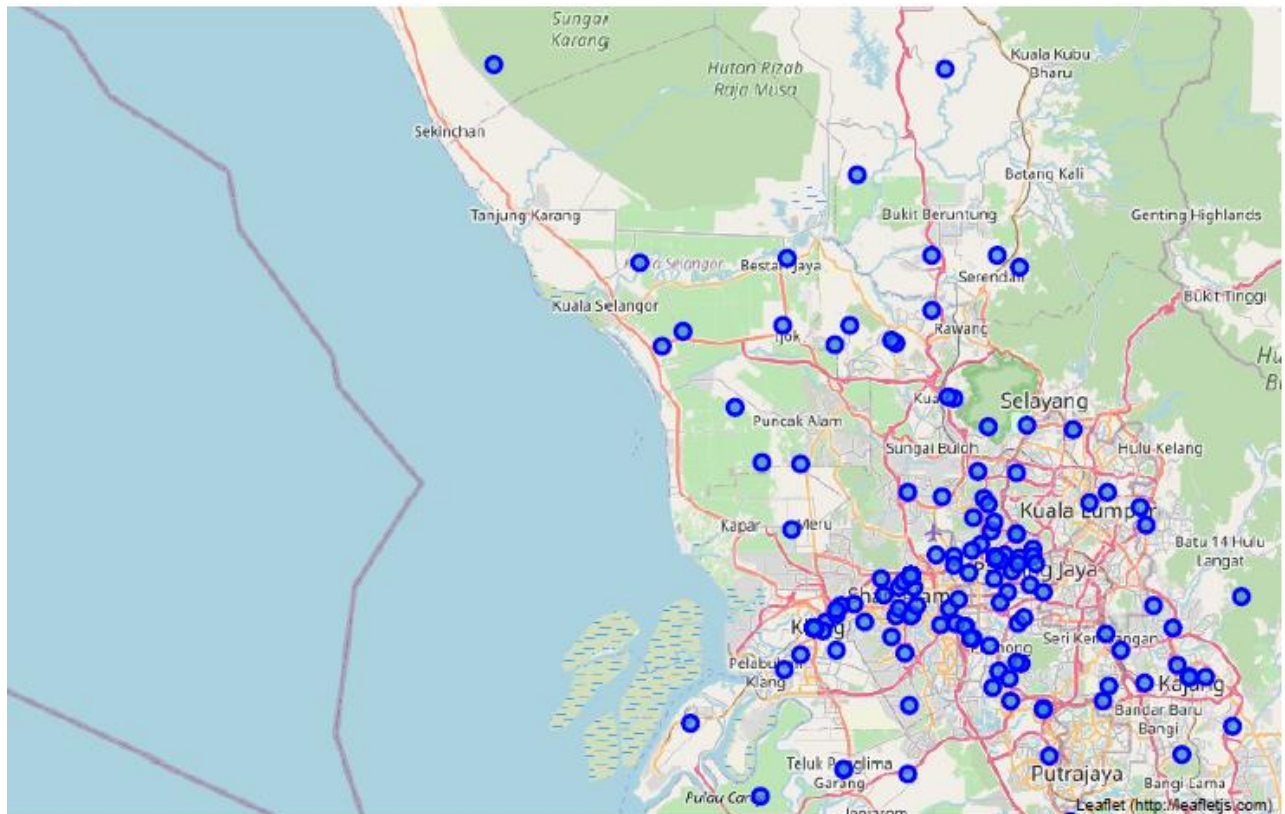
- What is the rental price in the required area?
- What are the houses that has 4 bedrooms and relevant rental?
- What are the venues surrounding the preferred area?
- What are the observations on overall data?

4.0 Findings

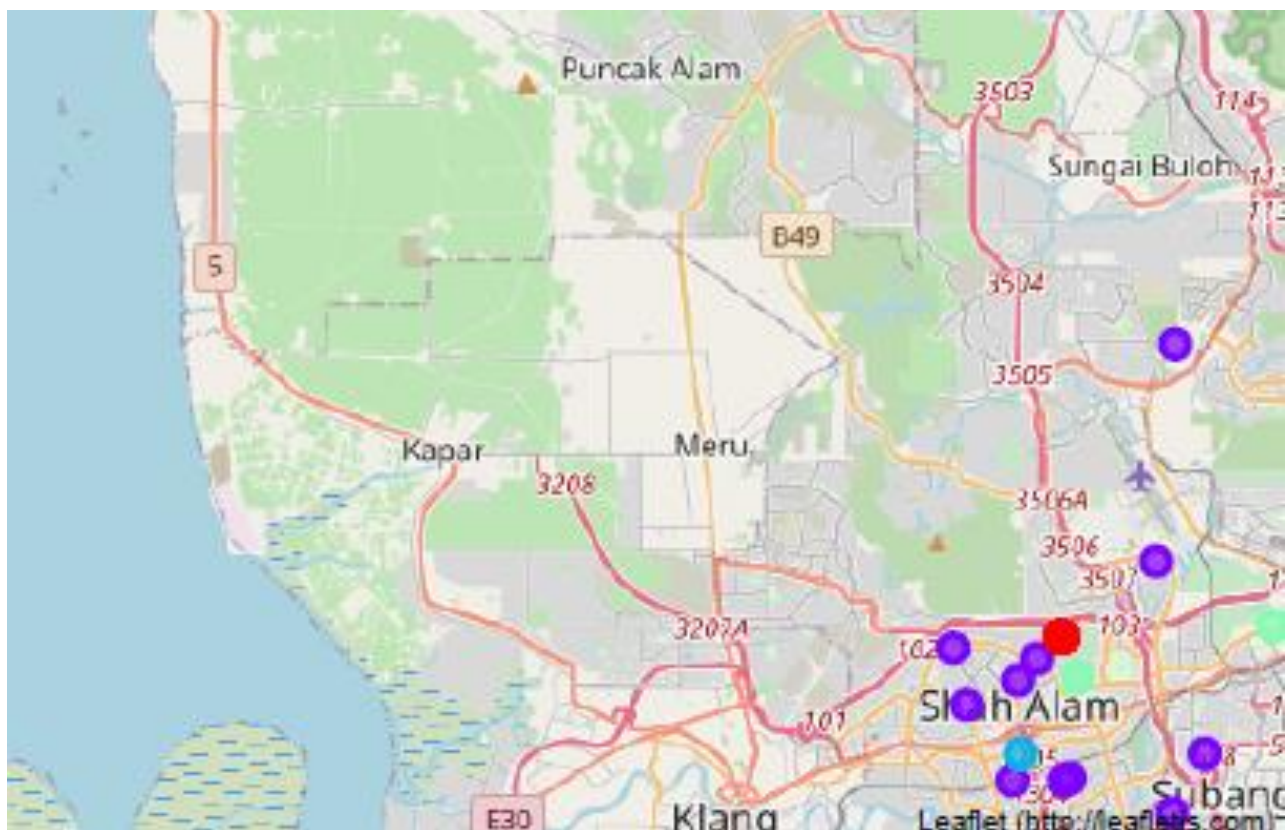
4.1 Latitude and Longitude of Selangor

	POSTCODE	CITY	ADDRESS	LATITUDE	LONGITUDE
0	40000	Shah Alam	Bukit Raja Selatan	3.0797	101.5186
1	40100	Shah Alam	Persiaran Damai,Persiaran Masjid,Persiaran Per...	3.0799	101.5334
2	40150	Shah Alam	Batu Tiga,Bukit Cerakah,Bukit Jelutong,Desa Su...	3.1100	101.5538
3	40160	Shah Alam	Bandar Baru Sungai Buloh	3.1643	101.5584
4	40170	Shah Alam	Alam Budiman Seksyen U10,Setia Eco Park	3.0733	101.5054

4.2 Map of Selangor



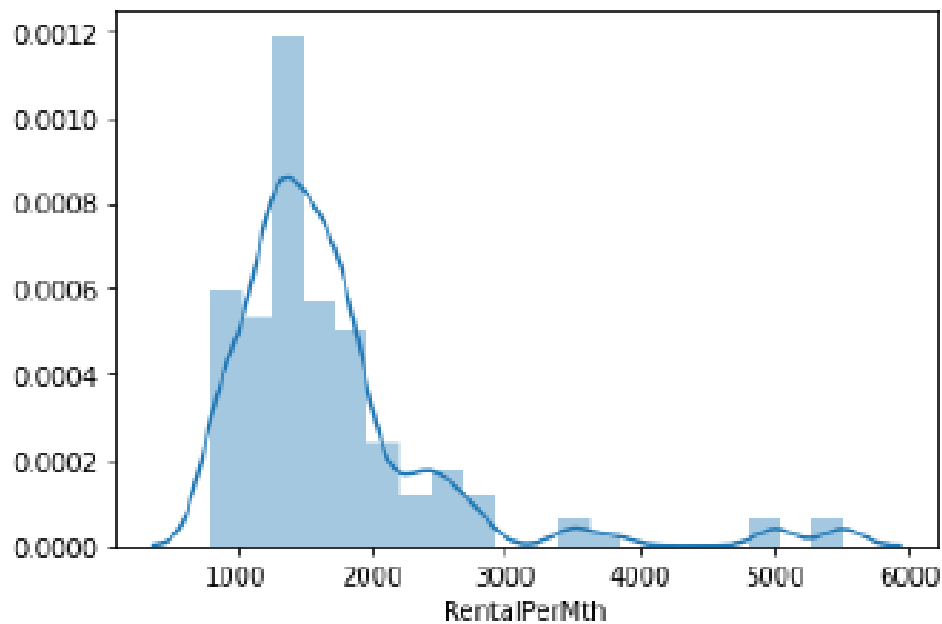
4.3 Clusters in Shah Alam



4.4 Cluster 1 as an ideal site

	CITY	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Shah Alam	1	Café	History Museum	Art Gallery	Asian Restaurant	Cafeteria	Garden	Middle Eastern Restaurant	Fried Chicken Joint	Electronics Store	Farmers Market
2	Shah Alam	1	Music Venue	Bakery	Sandwich Place	Multiplex	Karaoke Bar	Bowling Alley	Pool Hall	Soccer Stadium	Fast Food Restaurant	Comfort Food Restaurant
3	Shah Alam	1	Malay Restaurant	Lounge	Tea Room	Coffee Shop	Field	Burger Joint	Women's Store	Donut Shop	Electronics Store	Farmers Market
4	Shah Alam	1	Burger Joint	Ice Cream Shop	Arts & Crafts Store	Asian Restaurant	Fast Food Restaurant	Soup Place	High School	Business Service	Print Shop	Food Court
5	Shah Alam	1	Soup Place	Restaurant	Train Station	Department Store	Thai Restaurant	Asian Restaurant	Snack Place	Women's Store	Food Court	Flea Market
6	Shah Alam	1	Park	Food Truck	Noodle House	Grocery Store	Garden Center	Sake Bar	French Restaurant	Dim Sum Restaurant	Dive Bar	Donut Shop
7	Shah Alam	1	Pizza Place	Food Truck	Boutique	Asian Restaurant	Auto Garage	Auto Workshop	Food Court	Field	French Restaurant	Flea Market
9	Shah Alam	1	Sake Bar	Beach	Hookah Bar	Art Gallery	Malay Restaurant	Noodle House	Gaming Cafe	College Library	Food Truck	Speakeasy
10	Shah Alam	1	Convenience Store	Indian Restaurant	Garden Center	Garden	Food Truck	Women's Store	Fried Chicken Joint	Dive Bar	Donut Shop	Electronics Store
12	Shah Alam	1	Park	Basketball Court	Palace	Convenience Store	Recreation Center	Food Court	Malay Restaurant	Food Truck	Burger Joint	Breakfast Spot
16	Shah Alam	1	Malay Restaurant	Food Court	Coffee Shop	Museum	Sandwich Place	Cafeteria	Light Rail Station	IT Services	Dim Sum Restaurant	Café
22	Shah Alam	1	Malay Restaurant	Asian Restaurant	Café	Indian Restaurant	Japanese Restaurant	Bakery	Pharmacy	Boutique	Food Truck	Golf Course
39	Shah Alam	1	Malay Restaurant	Indian Restaurant	Asian Restaurant	Restaurant	Comfort Food Restaurant	Seafood Restaurant	Indonesian Restaurant	Food Court	Middle Eastern Restaurant	Moroccan Restaurant
47	Shah Alam	1	Malay Restaurant	Burger Joint	Asian Restaurant	Seafood Restaurant	Breakfast Spot	Café	Clothing Store	Bubble Tea Shop	Flea Market	Fast Food Restaurant

4.5 Rental price in Cluster 1



4.6 Houses in Cluster 1 with 4 bedrooms

	City	PropertyAddress	PropertyName	PropertyType	RentalPerMth	State	LATITUDE	LONGITUDE
7	Shah Alam	40170	Setia Impian 7	Semi-detached House	2500	selangor	3.0733	101.5054
8	Shah Alam	40170	Setia Impian 7	Semi-detached House	2500	selangor	3.0733	101.5054
13	Shah Alam	JALAN U16/1D	ELMINA VALLEY 3	2-sty Terrace/Link House	1500	selangor	3.0733	101.5054
14	Shah Alam	JALAN U16/1D	ELMINA VALLEY 3	2-sty Terrace/Link House	1500	selangor	3.0733	101.5054
22	Shah Alam	40170	Setia Impian 7	Semi-detached House	2500	selangor	3.0733	101.5054

5.0 Discussion

Based on the clusters we derived, Cluster 1 is a bigger area in terms on amenities around which is located in 3.0797, 101.5186. Venues that attracted me are convenience store, Indian restaurant, garden, park, coffee shop and pharmacy. One of my favourite spots are hookah bar and art & craft store.

When I explored the houses in cluster 1, the house rental is what I am looking for. At Setia Impian 7, a semi-detached house rental is RM 2,500 with the above-mentioned venues. There is also another house for RM 1,500 rental price which is located in Jalan U16 1D, Elmina Valley, which is a 2-storey terrace/link house. On the whole, I would prefer the Elmina Valley house for RM 1,500 which is much cheaper than my budget and contains 4 rooms.

6.0 Conclusion

The tools that I have used in this project including the data I uploaded has helped me to make this project workable. I was able to find the location and address that I prefer the most without too many google searches. The commons venues by using foursquare has definitely helped alot!

To those who are looking for rental around Shah Alam or Selangor on the whole, can apply this methodology to yours as it is generic!