

# HDB Room Rental Prices and Venues Data Analysis in Singapore

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## 1. Introduction

### 1.1. Description & Discussion of the Background

Singapore is one of the leading countries among the South East Asia Region. Its economy growth and quality education are what attract the international students to pursue their studies and careers here in Singapore. Yet, one of the most concerning issue for students like us is the high cost of living.

As we all know, Singapore is a small country and has limited spaces for housing development. This leads to the problem of high rental and housing prices, and it is especially relatable to international students like us who don't own a house here. In fact, fresh graduates and some international students suffer from finding a suitable and affordable place for rent.

In this analysis, the location factor is excluded as it is highly personalized and it differs based on individual preference. We are more interested at investigating which regions in Singapore are attractive in terms of affordable rental price, surrounding meal options as well as its affordability, and last but not least its accessibility to supermarket.

When we consider all these problems, we can create a map and information chart where the real estate index is placed on Singapore and each district is evaluated with the respective factors.

### 1.2. Data Description

The list of data that will be required is as follow:

- Open source rental price index provided by Singapore Government.
- The geospatial .json file that divides the Singapore into several towns that aids the choropleth plot.
- Foursquare API to search and explore the available restaurant and supermarket in a town. The count of supermarket and count of affordable meal option will be used to determine whether a town is favourable.