# Business Problem:

Mr. John is re-locating to Bangalore, India along with his family. He is looking for a suitable accommodation for rent. He has 4 preferred locations in Bangalore, which are:

* 1. Marathahalli.
  2. White Field.
  3. Electronics City.
  4. Hebbal.

He is willing to rent a house in any of these 4 locations. Provided, **all** the below conditions should be satisfied.

* He needs a school within a range of 3 kms, for his kids.
* He needs a hospital within a range of 2 kms.
* He is looking for a good restaurant.
* A departmental Store or a Super market.
* A Metro station.

As he is new to the city, he is not sure where to rent a house.

# Need for Data Science to solve this problem:

Mr. John has 4 preferred locations and has strict conditions to be satisfied to choose one of these locations. As a Data Scientist, I’ll use the available libraries and will rank the locations, based on his conditions. Using Clustering and K-means Algorithm, I’ll be able to arrive at an Centroid point, which will be the suggested location to Mr. John. Thereby, I’ll be able to suggest him one best fit location out of the 4 preferences.

# Interest:

This would interest anyone who has a similar need and is in search of a rent or relocation. He will get a clear picture of his neighbourhood. By changing the locations or preferences, this algorithm can be used by anyone.