**INTRODUCTION**

People in this fast paced and competitive world have to move and change homes. Changing homes within a big city takes a lot of effort and time and becomes a huge task which has severe consequences on their life. This project will compare different neighborhoods and will help people in their decision of which neighborhood is better.

**BUSINESS PROBLEM**

In a big and expanding city with a population of approximately 2 crore new residencies are situated far from the center of the city. Shifting home/neighborhood in a large city is quite a challenging task and requires a wise decision. Many factors are to be taken in consideration when one shifts home.

The problem people shifting home are the availability of following in the new area:

* Restaurants
* Shopping centers
* Hospitals
* Schools
* Grocery Stores
* Parks
* Cinemas
* Transport buses

Everyone has their own favorite restaurant, coffee shop , also schools cannot be easily changed and all schools are not of similar, the biggest problem comes in shopping centers as big shopping complexes are few in city, all of this results in people traveling larger distances when facilities are not available in their new area.

This assignment will help the people in making this decision and provide a comparison which locality is better in regards to facilities. We will cluster different localities and identify the facilities within their radius and formulate the results. With the help of this project people can chose houses based on which neighborhood has better facilities.

**DATA**

For this project we will use online data to get coordinates of different localities of the city. Form a data set with coordinates, next we will use coordinates to get the facilities available within the radius from Fouresquare API

We will use the Foursquare Api to find the facilities like Restaurants, parks, schools, hospitals, grocery stores, theatres etc for each locality in the desired radius from their coordinates. In this way data frame for each locality will be formulated, it will be modified and analyzed and will help finalizing a result based on the data and analysis.