2. Data Description

2.1. Data Required

Following data will be required for this project:

1. List of Hotels in central New York, their ratings and reviews, amenities provided by them
2. List of famous tourist points and their distance from the list of hotels obtained in 1st point
3. After the finalization of hotel, list of night clubs and Indian restaurants near the hotel and their ratings and reviews
4. List of shopping places near the selected hotel and their ratings and reviews

2.2. Data Source

The data for this project is taken from Foursquare API. The list of hotels, restaurants, tourist destinations and night clubs based on popularity and other requirements such as distance and user ratings can be extracted from foursquare.

2.3. Use of Data

Hotel selection:

- List of hotels in central New York (within 5 km radius) will be extracted from Foursquare.
- Hotels with the required amenities (Breakfast on Bed, swimming pool, TV and refrigerator) will be filtered from the list
- The filtered list of hotels will be checked against user reviews and the ones having ‘excellent/good view’ and an average rating greater than 4/5 will be selected
- A list of most famous tourist points will be extracted from Foursquare and their distances from the list of hotels obtained will be calculated to get the hotel with minimum distance from all the selected tourist points for 5 days

List of tourist points to cover every day:

- The list of tourist points to cover in 5 days will be divided in 5 clusters based on their distance from the selected hotel
- Tourist points in each cluster will be covered each day of the 5 day stay

- Most famous restaurants with 500 m radius of each tourist point will be extracted from Foursquare.

List of Indian restaurants, shopping places and night clubs near the hotel:

- List of most famous Indian restaurants, shopping places and night clubs within 1 km radius of the hotel will be extracted from Foursquare and top 5 locations will be selected in each category based on user ratings and reviews.