**CAPSTONE PROJECT: THE BATTLE OF NEIGHBORHOODS**

**Expats Location Engine**

1. **Problem Description:** Every year a great number of professionals change their home for mid or long term periods, accompanied most of the time by their families. For a newcomer in the town it is very difficult to make the decision on which side of the city to set foot. Target Users: Relocation services, Expats, Exchange Program Services
2. **Data Used:** Population, Average Income per Neighborhood, Demographics
3. **Methodology:**

The choices are targeted to the different profiles that the interested might have:

1. Single
2. Family

This will be crossed on a matrix base with other basic dimensions to create the full profile:

1. Age
2. w/wo children
3. w/wo pets
4. City center/suburb preference
5. The list of dimensions might increase with the time in order to refine the profile by using ML algorithms.
6. For this project data available on the Foursquare's API will be used. It will be used to check data in Berlin and Warsaw in terms of their neighborhoods. The data used includes information about different venues and their neighborhoods
7. One of the technique which will be used is KMeans to group neighborhoods with similar objects. Thanks to this algorithm it will be possible to say something about similarities and dissimilarities in these two capital cities.