Capstone Project – The battle of the Neighborhoods

Diego Belotto

August 2020

1. Data acquisition

a. Data sources

o List of neighborhood from Asunción: for this purpose we'll be using the table from GeoHidroInformatica - Itaipu that contains data such as neighborhood name, district name, department name (equivalent to federal states), quantity of houses and codes for all of these fields as well a field with multipolygon data that contains delimiters for each neighbor
http://geohidroinformatica.itaipu.gov.py/geoserver/wfs?typename=cih%3Aparaguay_2012_barrrios_localidades_wgs84&outputFormat=csv&version=1.0.0&request=GetFeature&service=WFS

o Neighborhood coordinates: open street map
https://nominatim.openstreetmap.org
o Venues data for each neighborhood using de Foursquare API
https://api.foursquare.com/v2/venues/
o Renting data: containing type of place, number of rooms, number of bathrooms, price, neighborhood, coordinates. We scrapped the data from a website called Infocasas.

https://www.infocasas.com.py/alquiler/inmuebles/asuncion/