Best places to open Yoga Center in San Francisco

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Business Problem

We want to open new Yoga Center in San Francisco, USA. Relevant place should match next criteria:

- To be at least 500 meters away from any existing Yoga Center
- To be inside given area on a map
- To be near venues which is popular after visiting Yoga

This project would be interested to any stakeholder who would be interested in opening new Yoga Center in San Francisco. Moreover, given solution could be applied to other input parameters, like another city or another venue category.

Data

In this project I would use open Foursquare API data. Particularly, 2 methods:

- Search, for finding venues of given category near specified point
- NextVenues, for getting insights of which venues are popular to visit after given venue

Also I would use Nominatim – service for getting addresses from given latitude and longitude.

To answer main question, "Where are the best places to open Yoga Center in San Francisco" I should do following steps:

1. Get list of all existing Yoga Centers in San Francisco. Because Foursquare API returns venues of given categories in circular area around given point, I should clean results, so only venues from San Francisco stay.
2. For each given Yoga Center request popular next venues
3. Calculate most popular categories of them
4. Request list of venues of that categories in San Francisco
5. Generate grid of points inside given area on map (because we are interested in specified area of the city)
6. For each point determine if it acceptable or not, based on distance to nearest existing Yoga Center. Also I should calculate score for each point based on proximity to popular next venues.
7. Next step would be clusterizing of the appropriate points to determine areas of interest
8. Describing gotten result