2. List of features you will definitely implement in the application

* Overview
  1. Search Restaurant by name, zip code, rating
     1. By name, show location and a list of reviews and other attributes in a radar plot
     2. By zip code, show a list of all restaurants and if we select one, then show location and a list of reviews and other attributes in a radar plot
     3. By rating, show a list of all restaurants and if we select one, then show location and a list of reviews and other attributes in a radar plot
* Function For User
  1. Recommend places to travel and want to eat in style and variety. Return zip codes (with accompanying restaurant information) that contain at least one 4.5+ star-rated (separate) breakfast restaurant, lunch restaurant, and dinner restaurant. This will render results using pagination functionality that will be created using LIMIT.
  2. Query a single restaurant and add/remove attributes to customize what information is displayed on the screen. For example you want to see restaurants that have Bike Parking, Wifi, or “Trendy” ambiance. This is accomplished by joining the main Yelp data set against a list of sub-attributes. Recommend Top 20 lists (location, cuisine) order by rating
* Function For Restaurant Owner
  1. Cluster neighborhoods by certain attributes and recommend a niche market
  2. Show nearby high-rating restaurants
  3. Show newly created indicators for evaluating restaurants
     1. Revisiting rate: number of users who have visited the restaurant more than once
     2. Improvement score: (average star rating after the first visit / star rating when they first visited) for users who have visited more than once.
     3. Number of regular customers visited : number of users who visited more than 3 times for the last 12 months.
  4. Recent review and rating change in line graph

3. List of features you might implement in the application, given enough time

* Linking with a google map api, return postal code, longitude, latitude for connecting Google Maps API and create a slider for radius, which will return more restaurants in the query or less based on the option selected.
* Mapping with Covid dataset, show restaurants’ current policy toward COVID19

4. List of pages the application will have and a 1-2 sentence description of each page. We expect that the functionality of each page will be meaningfully different than the functionality of the other pages.

* Page1 : Overview
  1. Basic descriptions on all three pages and team members
  2. Description of each restaurant searched by name
* Page2 : Recommendation for User
  1. Recommend a location for a special journey with exceptional cuisines
  2. Check out an available restaurant in a certain location with key attributes for which a user is looking and recommend Top 20 lists (location, cuisine) order by rating
* Page3 : Recommendation for Restaurant Owner
  1. Find some niche locations to open up a new restaurant
  2. Show reviews of a near-by restaurants for a service improvement
  3. Show some newly created indicators to analyze the current status of a restaurant