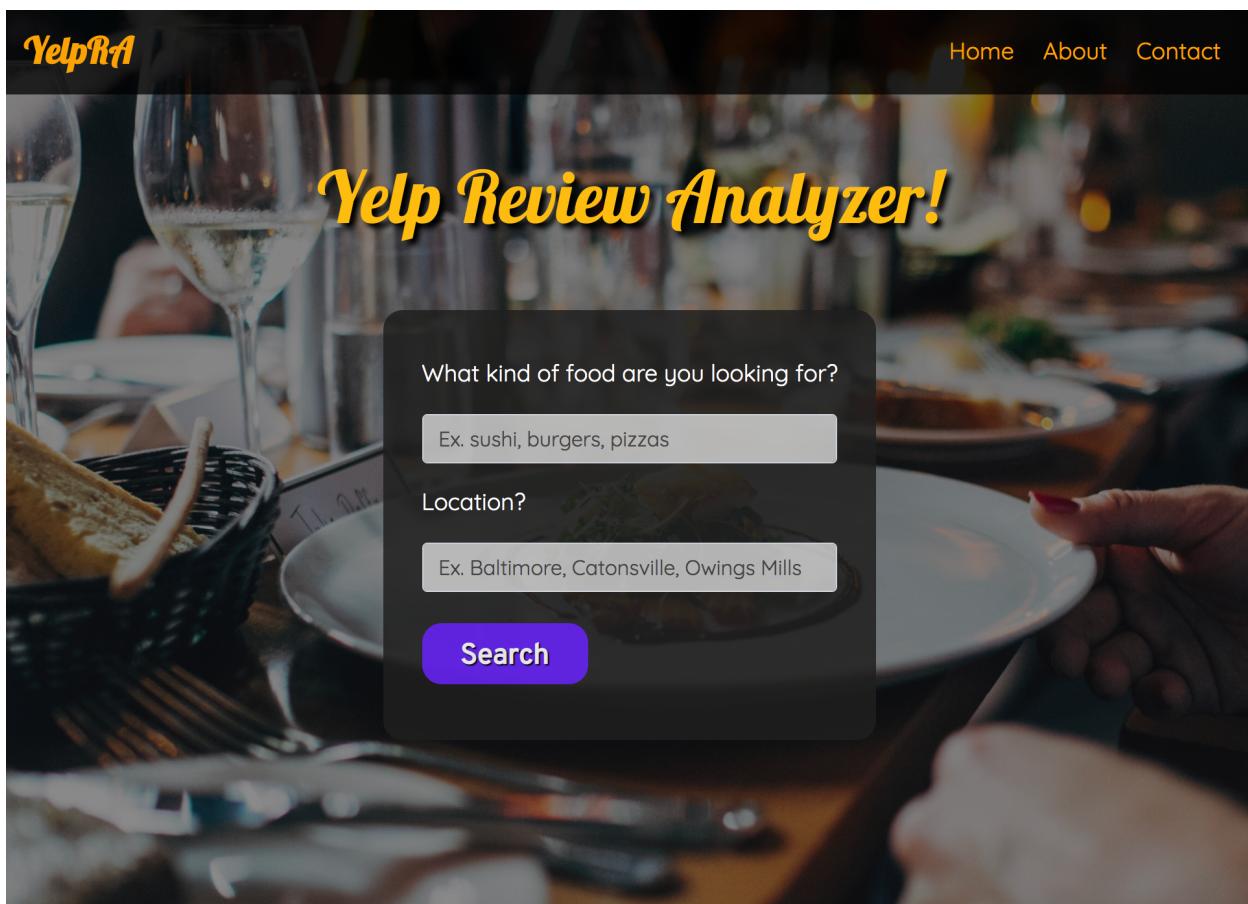
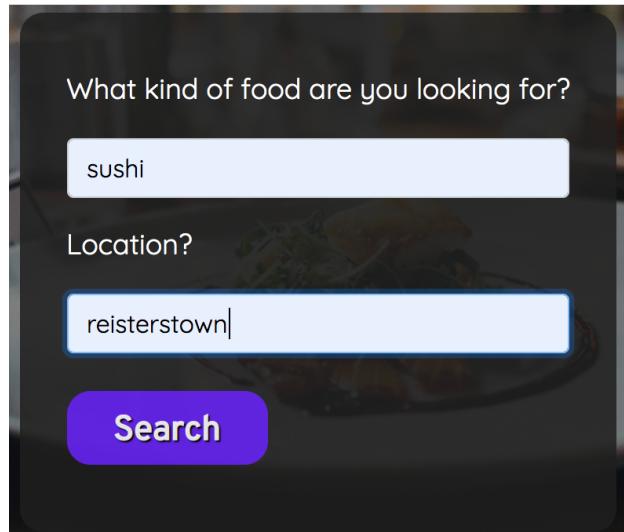


About This Application (about.html)

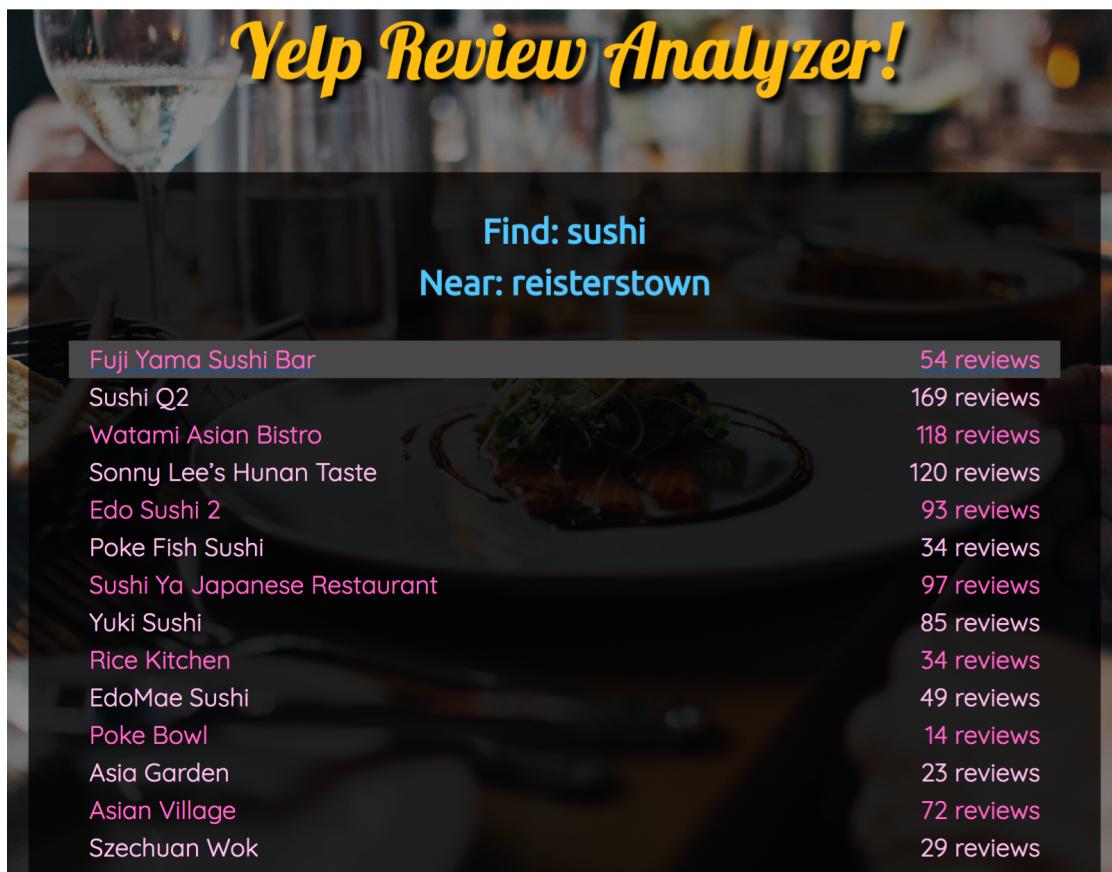
Yelp Review Analyzer is for people who are tired of reading hundreds of reviews in Yelp but want to quickly see what people are talking about the restaurants or see if majority of the reviews are more towards negative or positive.

This application can solve your problems. This app has a visual chart that show 50 most repeated words in all reviews, overall sentiment analysis, and popularity. Moreover, it also translates the reviews for you from English to Spanish, Thai, or Chinese. I hope you enjoy this application.

Application Home Page (index.html)

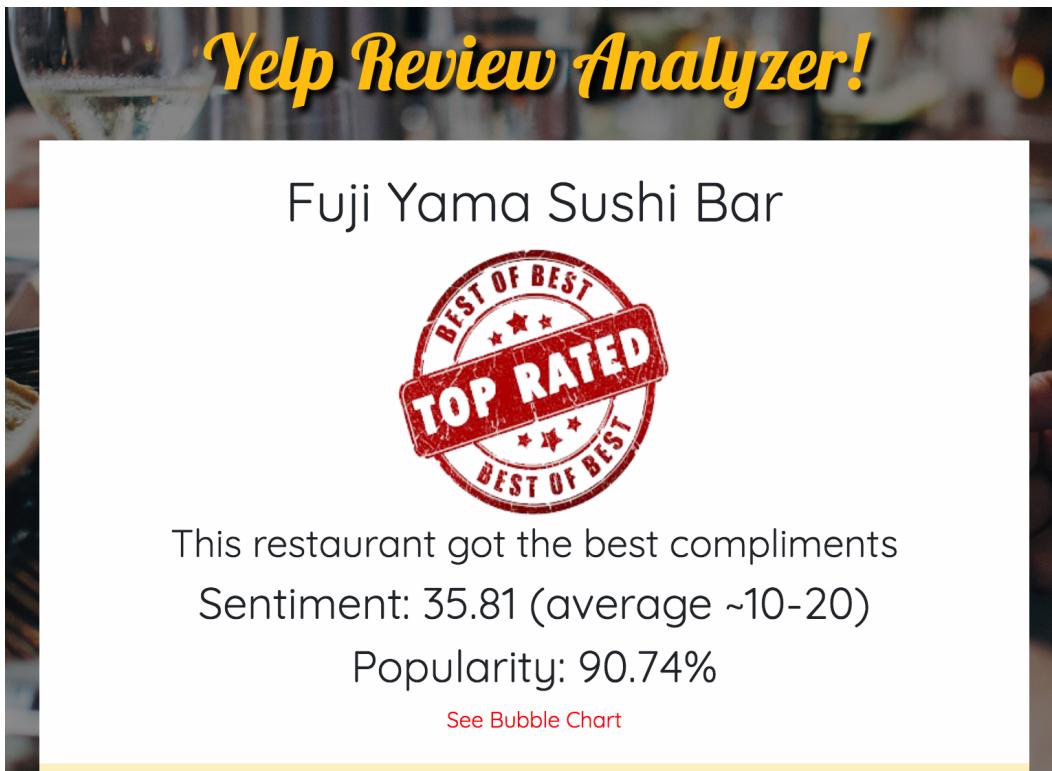
Get User Input (index.html)

A screenshot of a web application interface. At the top, a question "What kind of food are you looking for?" is displayed above a text input field containing the word "sushi". Below it, another question "Location?" is shown above another text input field containing "reisterstown". A large purple button labeled "Search" is positioned below the location field. The background of the form is dark, and there is a faint image of a bowl of food at the bottom.

List of Restaurants (showList.html)

A screenshot of a search results page titled "Yelp Review Analyzer!" in yellow text. The title has a drop shadow effect. Below the title, the search parameters "Find: sushi" and "Near: reisterstown" are displayed in blue text. The main content is a table listing 15 restaurants along with their review counts. The table has two columns: the restaurant name and the number of reviews. The background features a blurred image of a restaurant interior with a person holding a glass of white wine.

Find: sushi	Near: reisterstown
Fuji Yama Sushi Bar	54 reviews
Sushi Q2	169 reviews
Watami Asian Bistro	118 reviews
Sonny Lee's Hunan Taste	120 reviews
Edo Sushi 2	93 reviews
Poke Fish Sushi	34 reviews
Sushi Ya Japanese Restaurant	97 reviews
Yuki Sushi	85 reviews
Rice Kitchen	34 reviews
EdoMae Sushi	49 reviews
Poke Bowl	14 reviews
Asia Garden	23 reviews
Asian Village	72 reviews
Szechuan Wok	29 reviews

Analyzed Sentiment and Popularity (reviews.html)

Yelp Review Analyzer!

Fuji Yama Sushi Bar



This restaurant got the best compliments
Sentiment: 35.81 (average ~10-20)
Popularity: 90.74%

[See Bubble Chart](#)



Yelp Review Analyzer!

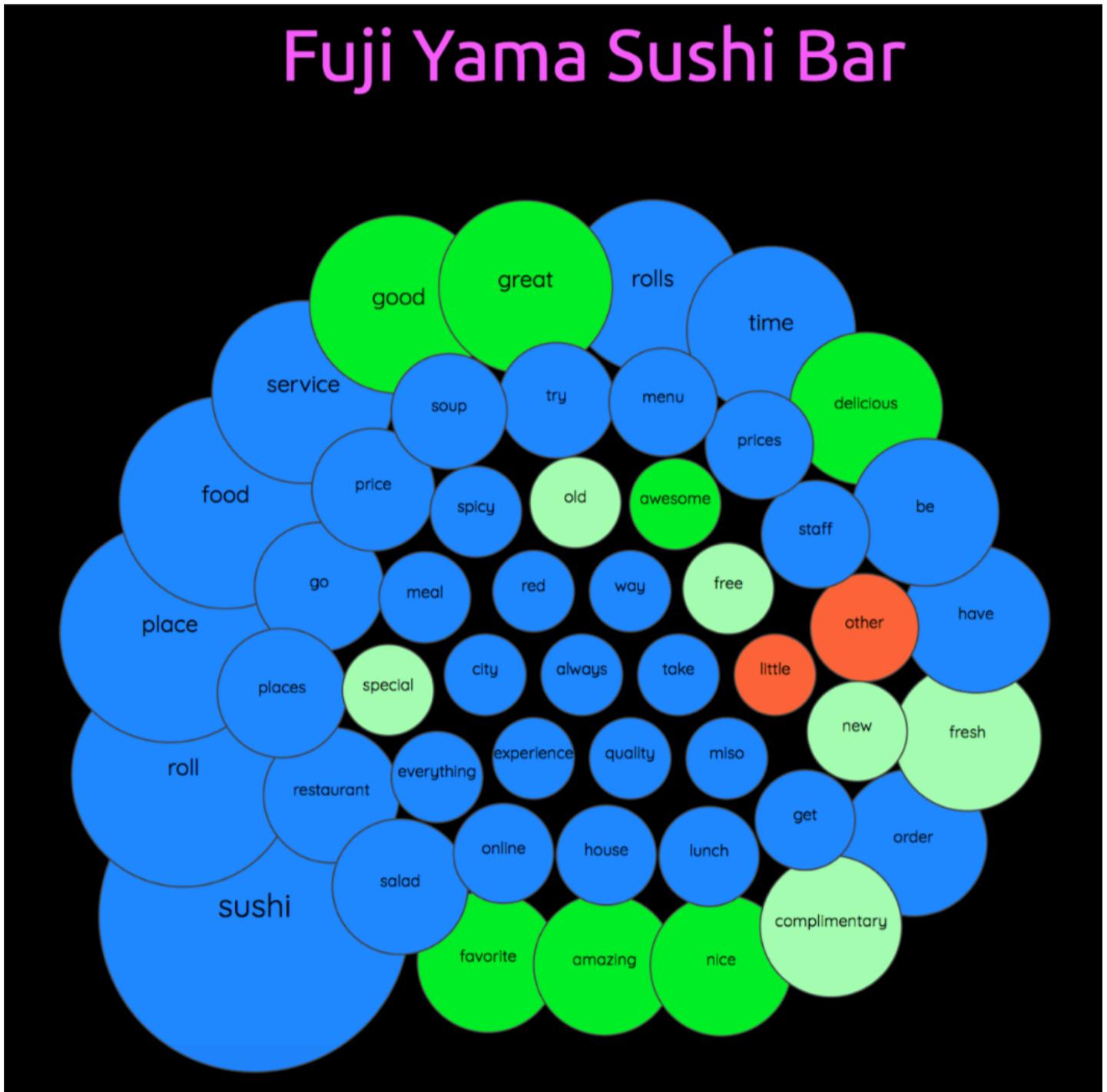
Poke Bowl



This restaurant is very good
Sentiment: 23.76 (average ~10-20)
Popularity: 84.62%

[See Bubble Chart](#)

50 Most Repeated Words in All Reviews (reviews.html)



Read Actual Reviews (reviews.html)

[Scrape from real time reviews]

with Options to Translate to Other Languages

Reviews

[English](#) | [Spanish](#) | [Thai](#) | [Chinese](#)

1. This is my favorite place to order from!! They always professional and very kind when I order. I have been to the restaurant and sat inside and they treating my friend and I with so much kindness! The food is always amazing and priced very well. I order on thier online service and had my food delivered and I received it in a timely manner. Plus they gave me free roll on the house! I will definitely continue to go there!
2. Always super fresh. Rolls aren't always the most beautiful, but I'll take freshness over uniformity any day.
3. Dear yelp readers. Hi. How ya doin'so let me explain how the stars/points system works here. If you click 5 stars it's fucking awesome. ... if you click 1 star it's double of what this hideous "restaurant" is. Apparently y'all just didn't understand the grading system hence the positive regards hereLiterally. Said in the CORRECT wayLITERALLY the most atrocious quasi Asian ish food I have ever attempted to eat. EVER so kudos and ONE star for being epically horrid. I mean ... at least you aren't average right??Ordered delivery so review is not about decor or a cute server swaying an opinion. This is about a kitchen that can't cook and a chef... that perhaps should look into other career paths. SQUID. Ummmm I won't live for the additional 60 plus years that It would have taken to chew that abomination....and for that I'm quite grateful The three rolls i ordered featured unseasoned and old rice. Nice touch. Not only not fresh but here's old AND without flavor. . Wow. Uncanny that anyone could be this bad at their job. I suppose if i went to be hmmmmm an accounting professional... that would

Translate from English to Spanish, Thai, or Chinese (lang.html)

Reviews

[English](#) | [Spanish](#) | [Thai](#) | [Chinese](#)

1. Gran nuevo lugar de empuje en el área de Owings Mills / Pikesville. Súper fresco, saludable y rápido. No estaban ocupados ayer, así que conseguimos nuestra comida en pocos minutos. Los niños hicieron su propio tazón que incluye una proteína, 5 verduras y etc. Obtuve un tazón clásico de la casa que incluía atún, salmón y cola amarilla con 5 verduras por \$ 14. Buena gente y ambiente
2. Tenía el sushi especial (roll de amor) y ensalada de poke. Ambos estaban bien, pero el servicio y el personal amable se destacaron aún más. No haría un viaje especial a OM para comer aquí, pero si en la zona, haz tu visita.
3. Primera vez allí Disfruté del tazón hawaiano clásico Signature. Menú muy extenso. Volveremos pronto.
4. Intenté aquí para el almuerzo. Tuve que crear tu propio poke bowl con arroz de sushi, salmón, anguila, pepino, cilantro, col rizada y ensalada de algas. Fue realmente bueno y todos los ingredientes eran muy frescos. Fue alrededor de \$ 10.95 crear el tuyo propio y luego \$ 3 más porque elegí una segunda proteína. Mi marido tenía 2 rollos de sushi, el Bruce roll y Mountain roll. Ambos fueron realmente buenos, pero pensamos que Bruce Roll era mejor. Los precios son un poco más altos que la mayoría de los otros lugares de sushi en el área. Si cenas, la presentación del plato es muy agradable, ponen una luz de color y flores en el plato. Volvería pero tal vez haga el almuerzo especial ya que sería más barato. Los 2 rollos y poke bowl llegaron a alrededor de \$ 43 para 2 personas, eso es un poco caro para el almuerzo.
5. Hemos estado ansiendo empujar desde que regresamos de Hawái y no pudimos encontrar un lugar local decente. ¡Pero encontramos uno ahora y es mejor que decente! El pescado es fresco. El personal es útil. El lugar está limpio. Y lo mejor de todo, la comida era deliciosa! ¡Volveremos!
6. Este es un increíble lugar de poke y sushi. Tal comida fresca y porciones realmente grandes para el dinero. Sin duda, un lugar para visitar si estás en la zona.
7. Excepcional. La comida estaba fresca. El personal fue muy amable. Me sacaron y puse una bolsa de hielo sobre el pescado crudo para mantenerlo frío. Tenía la ensalada Poke. Delicioso volveremos !!

About Page (about.html)

The screenshot shows the 'About' page of the Yelp Review Analyzer. The header features the 'YelpReviewAnalyzer!' logo with a background image of a restaurant interior. The main content area has a white background and contains the following text:

About

Yelp Review Analyzer is for people who are tired of reading hundreds of reviews in Yelp but want to quickly see what people are talking about the restaurants or see if majority of the reviews are more towards negative or positive.

This application can solve your problems. This app has a visual chart that show 50 most repeated words in all reviews, overall sentiment analysis, and popularity. Moreover, it also translates the reviews for you from English to Spanish, Thai, or Chinese. I hope you enjoy this application.

Project Name: Yelp Review Analyzer (YRA)
For: CSIT 216 - Python
Semester: Spring 2019, CCBC
Professor: Dr. James Braman

Contact Page (contact.html)

The screenshot shows the 'Contact' page of the Yelp Review Analyzer. The header features the 'YelpReviewAnalyzer!' logo with a background image of a restaurant interior. The main content area has a white background and contains the following text:

Contact

Developer: Rachada Chairangsaris (Bay)



BayLadyCoder

[My Portfolio](#)

Technologies used in this project:

1. Python 3
2. Beautiful Soup (Python Library for Web Scrapping)
3. Flask (Python Web Framework for Web Application)
4. TextBlob (Python Library for Sentimental Analysis and language translations)
5. HTML
6. CSS
7. Javascript
8. D3.js (Javascript Library for Data Visualization)
9. JSON (Temporary Database)

Difficulties:

1. Flask - How a website work in the backend is new to me. I faced a lot of problems with GET/POST requests because I didn't understand how it works.
2. D3.js and SVG - I could not find a good documentation about how to create the Bubble Chart from D3.js that I wanted to use in this project. Therefore, I struggled a lot. Moreover, it doesn't look as good as I wanted because I didn't know how to work with SVG (Scalable Vector Graphic), which is a big part of this Javascript library, D3.js.

Future Improvement:

1. Add an export button to export the reviews (excel, pdf, csv, json)
2. Improve the sentiment analysis vocabulary that are misinterpreted. For example, "chicken" has negative value in TextBlob, but in food context, it should be neutral.
3. Improve the bubble chart to detect noun/verb phrases, such as, "Pad Thai" or "fried rice" as a dish name or "Sushi Ya" as a restaurant name.
4. Make the app faster by scraping and translating reviews in advance regularly and store it to a database then use data from the database instead of depending on the data that is being scraped at the moment the user using the app.