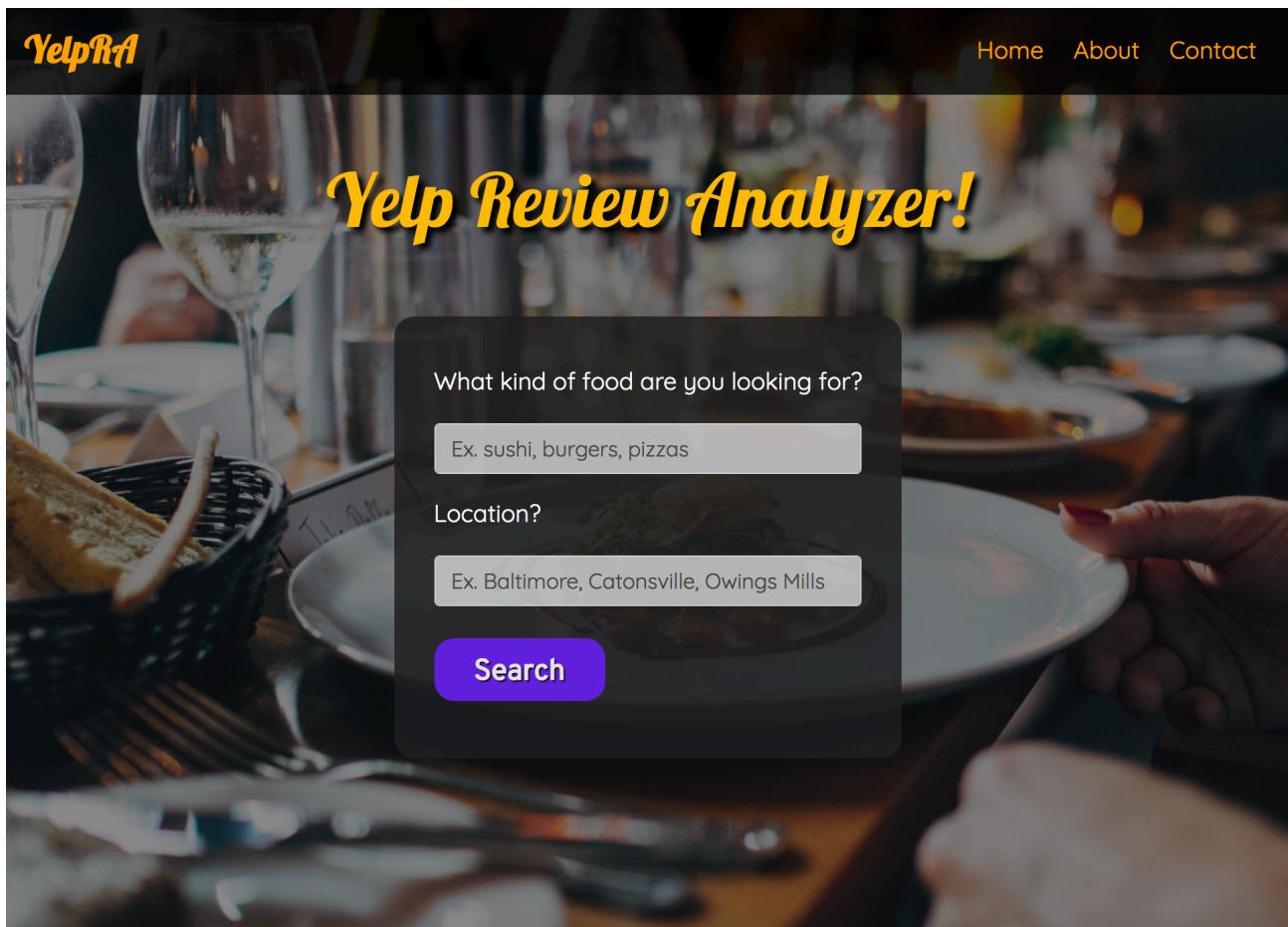
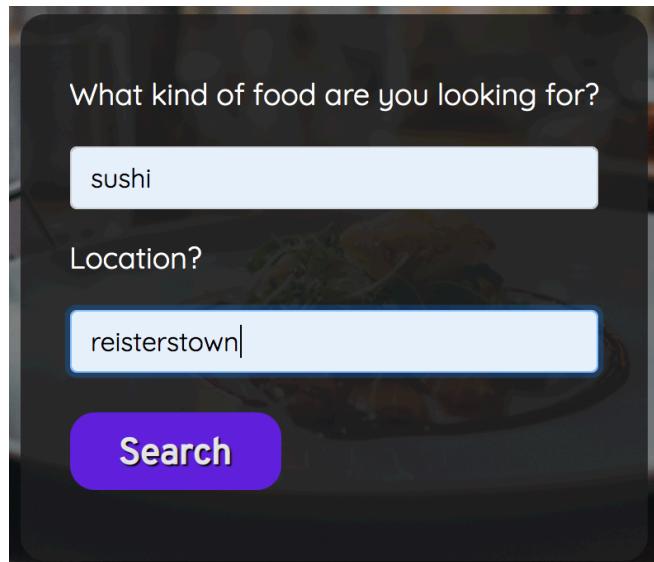


**About This Application (about.html)**

**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)****List of Restaurants (showList.html)**A screenshot of the search results page. The title "Yelp Review Analyzer!" is displayed prominently. Below it, the search parameters "Find: sushi" and "Near: reisterstown" are shown. A list of restaurants is displayed in a table format. The table has two columns: the restaurant name and the number of reviews. The restaurants listed are: 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), and Szechuan Wok (29 reviews).

Restaurant	Reviews
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](#)

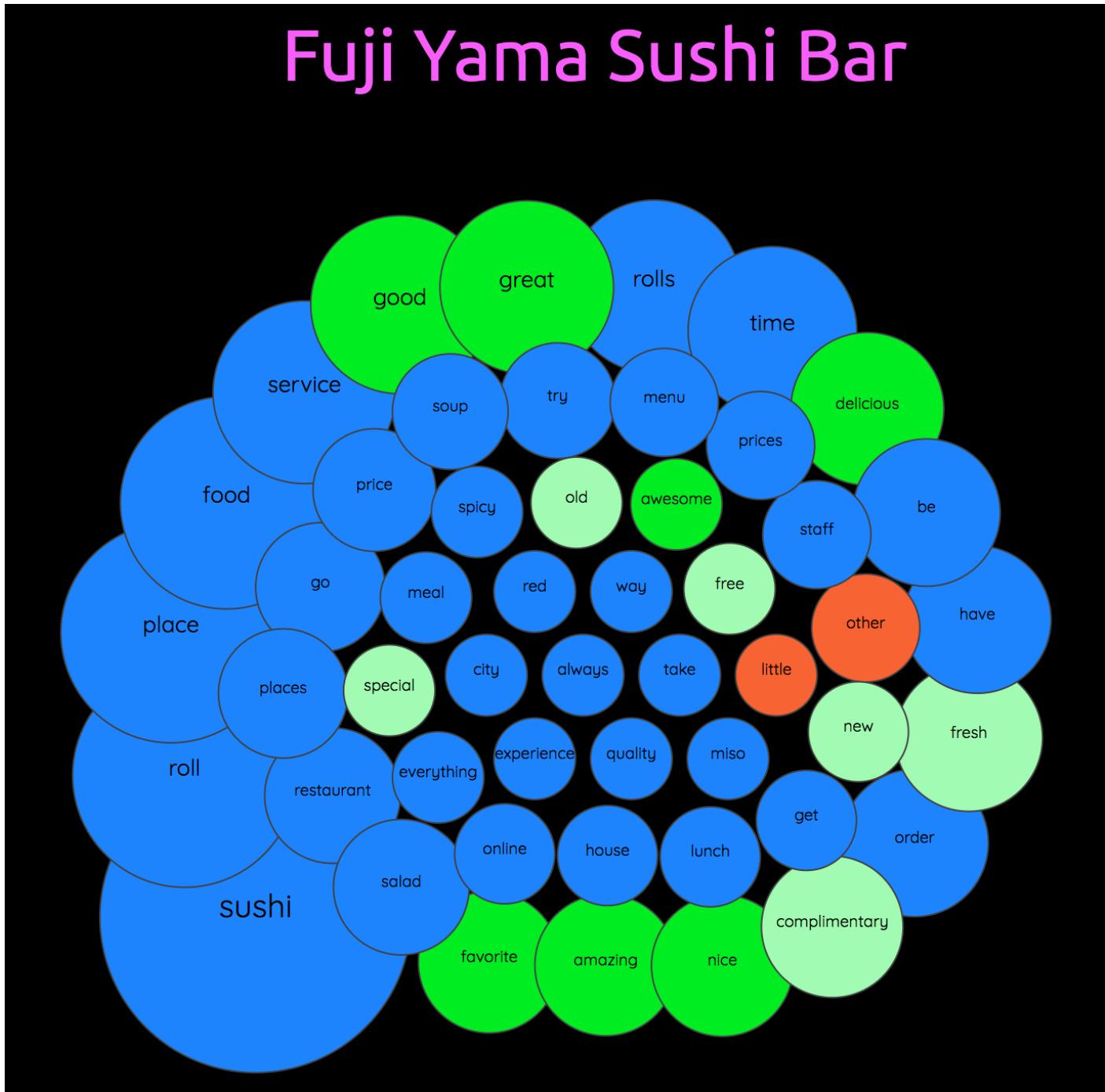
***Yelp Review Analyzer!***

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)  
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 way ....LITERALLY 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, and Chinese (lang.html)**

(I tried to screenshot this page at home, but I got this error instead. Even though I already showed you in class that this function worked, I'm not sure if this function still works now. Since I changed some code, and hoped it would work. Nevertheless, it still gave me the same error. )

## urllib.error.HTTPError

```
urllib.error.HTTPError: HTTP Error 429: Too Many Requests
```

### Traceback (most recent call last)

```
File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/app.py", line 2309, in __call__
    return self.wsgi_app(environ, start_response)

File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/app.py", line 2295, in wsgi_app
    response = self.handle_exception(e)

File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/app.py", line 1741, in handle_exception
    reraise(exc_type, exc_value, tb)

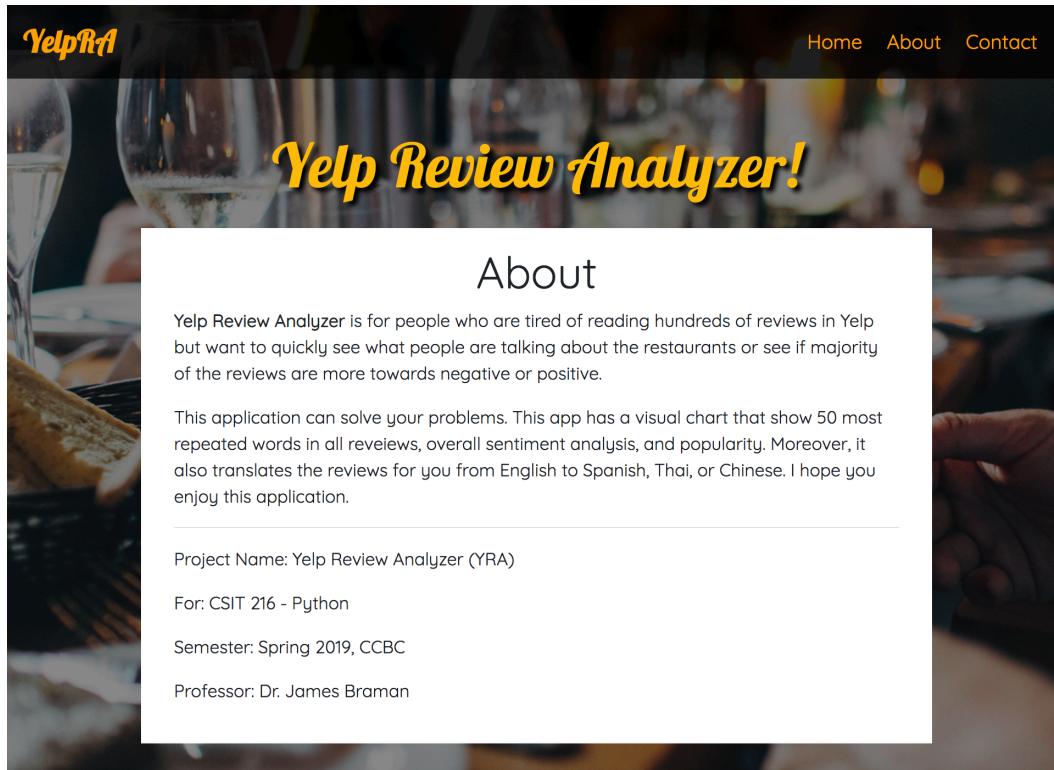
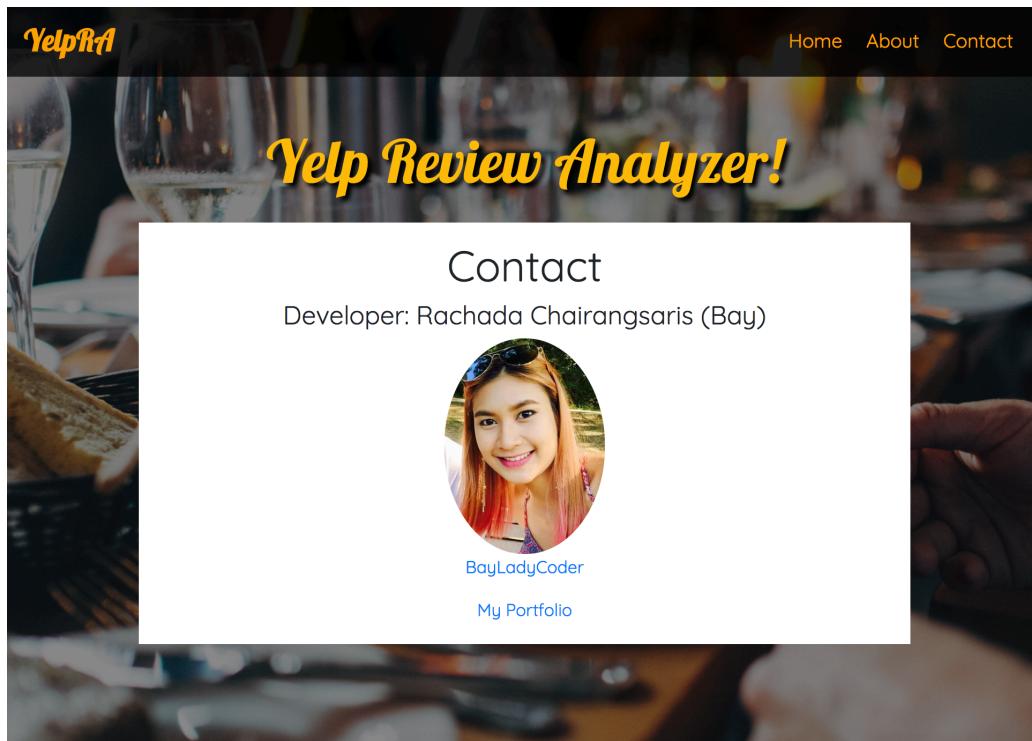
File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/_compat.py", line 35, in reraise
    raise value

File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/app.py", line 2292, in wsgi_app
    response = self.full_dispatch_request()

File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/app.py", line 1815, in full_dispatch_request
    rv = self.handle_user_exception(e)

File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/app.py", line 1718, in handle_user_exception
    reraise(exc_type, exc_value, tb)

File "/Users/admin/Desktop/GitHub/YelpScraping/virtual/lib/python3.7/site-packages/flask/_compat.py", line 35, in reraise
    raise value
```

**About Page (about.html)****Contact Page (contact.html)**

**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.