

DineOut

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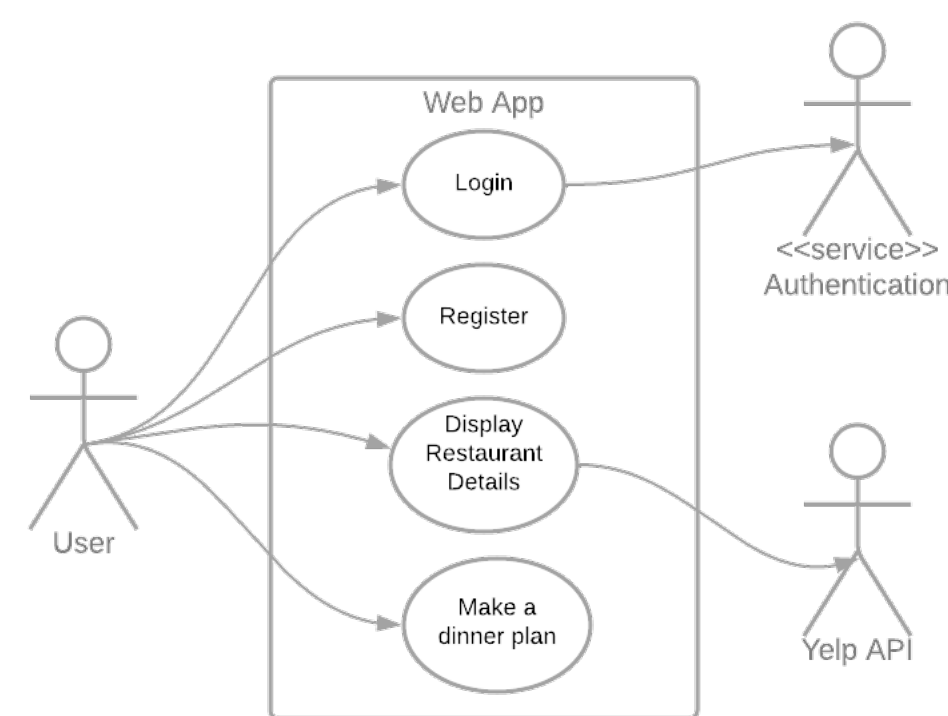
Overview

DineOut is a web application to allow users to easily see restaurant details and plan their evening out. The purpose of this web app is to facilitate planning with larger groups, where you'd want to have dinner or lunch.

Methodology

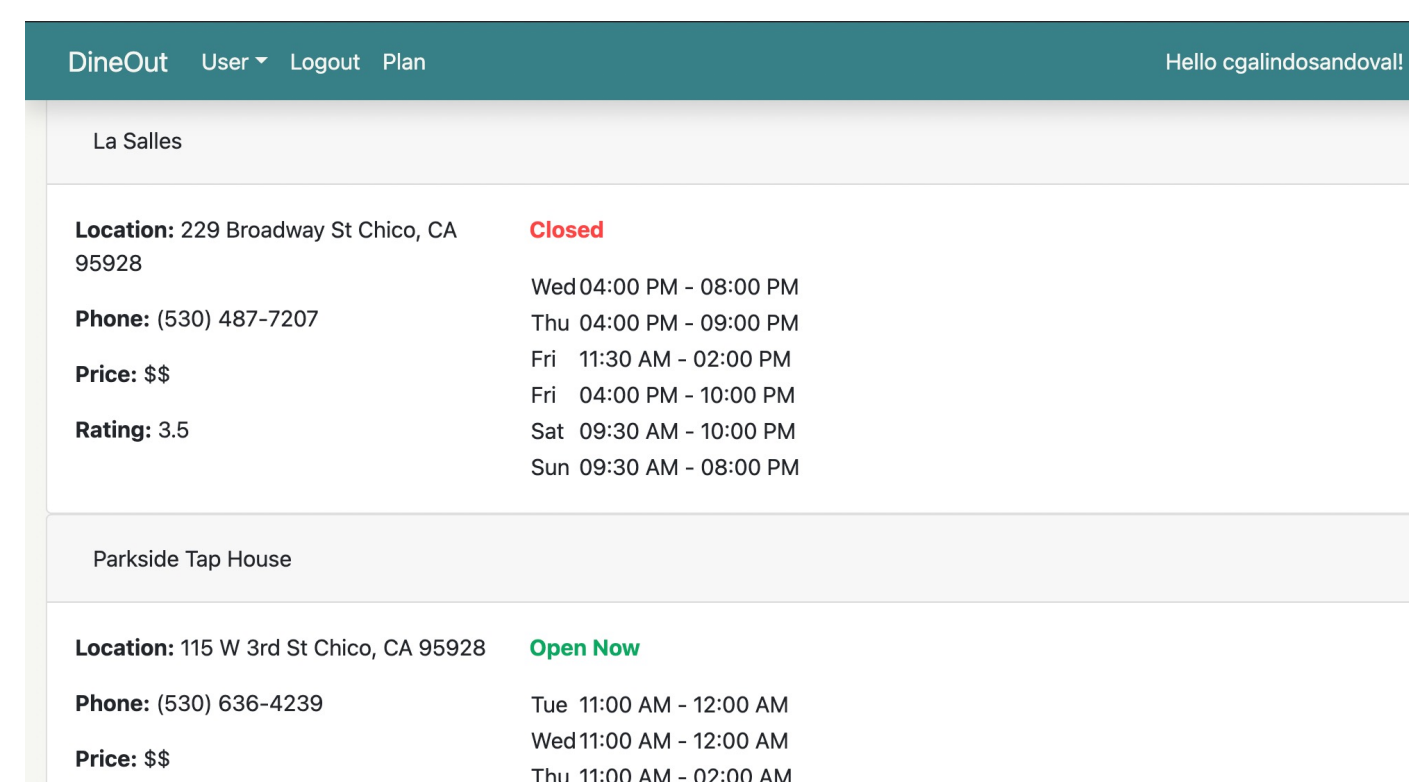
The frontend was built using the Django Web Framework¹, HTML, and Bootstrap². The backend was built using Django's built-in database SQLite and the Python programming language. Docker was used to create, deploy and run the web app. Data was gathered using Yelp's API³. GraphQL was helpful in allowing to select what data to pull from Yelp. Postman⁴ was also used to visualize the JSON responses from Yelp's API.

Finally, DineOut is currently hosted via Google Cloud Platform⁵ at <http://dineoutnearme.net/>



Features

- ❖ Authentication
- ❖ Login, Logout, Registration
- ❖ Signup with Google Authentication
- ❖ Edit user profile
- ❖ Create dinner plan
- ❖ Visualize restaurant details



Current Status

I've successfully implemented Yelp's API using GraphQL. Restaurant details from downtown are displayed in the homepage, accordion style. Authenticated users and non-registered users can see a restaurant's location, phone number, hours, if currently open, and price range from \$ to \$\$\$\$. Users can signup/login and edit their profile page, upload a profile picture and edit their bio. They can also fill out a form that will create their planned dinner with restaurant name, date/time and number of guests.

Challenges

I had a few challenges integrating Yelp's API. The amount of data I was getting was too much and slowing the app down. I was able to use GraphQL, a data query and manipulation language for APIs.

```
# Build the request framework
transport = RequestsHTTPTransport(url='https://api.yelp.com/v3/graphql',
headers=HEADER, use_json=True)
# Create the client
client = Client(transport=transport, fetch_schema_from_transport=True)
# Define a simple query
query = gql("""
{
  search(terms:"downtown",
    location:"Chico, 95928",
    categories:"restaurants") {
    total
    business {
      name
      hours {
        is_open_now
        open {
          start
          end
          day
        }
      }
      photos
      rating
      price
      location {
        formatted_address
      }
      display_phone
    }
  }
}""")
response_q = client.execute(query)
```

Future Goals

In order to expand DineOut out of Chico, it would need the ability to allow users to search what town they are in. Also, I would like to implement Web Sockets to allow users to join a chat room to allow user communication. A comment/rating section would also be useful to get user input on the restaurants.

References

- 1) <https://docs.djangoproject.com/en/4.0/>
- 2) <https://getbootstrap.com/docs/5.0/getting-started/introduction/>
- 3) https://www.yelp.com/developers/documentation/v3/get_started
- 4) <https://web.postman.co/workspace>
- 5) <https://cloud.google.com/docs>



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