CMPE 273- Lab 3- Yelp Recreation

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GitHub Code Link: https://github.com/BhavanaBS/CMPE273-Lab2

1 Goals and purpose of the system

The goals the system includes the development and functional re-creation of Yelp. Yelp allows customers and restaurants to place and receive food orders.

Personas in Yelp:

1. Customer
2. Restaurant

A customer can create his profile with details such as date of birth, address, etc. It also allows him to search dishes available at various restaurants based on the filters of location, food deliver option and order them if he chooses to. Previous orders and order statuses are some of the other functionalities available to him.

A restaurant can create its profile with details of location, timings etc. It can also add the details of various dishes available and accept or reject orders it receives. A complete list of orders and events for a restaurant are also maintained.

2 System Design

The system is built using the below mentioned technologies:

1 Frontend:

The front-end of the system is built using ReactJS to help in interaction between various components of the application. React Apollo connects front end to the GraphQL server which intern connects to the backend.

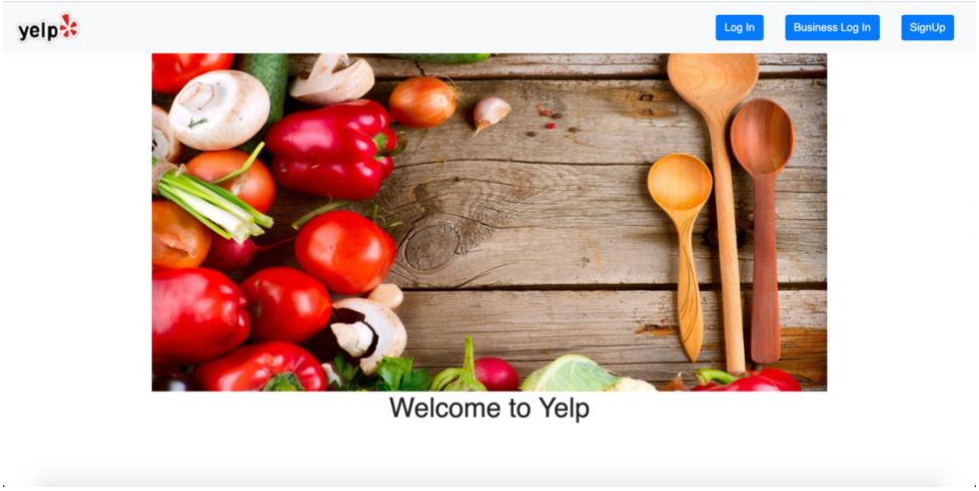
2 Backend:

The back-end part of the application is built using NodeJS. It helps connect the frontend API to the NoSQL database. ESLint framework provides the static code analysis.

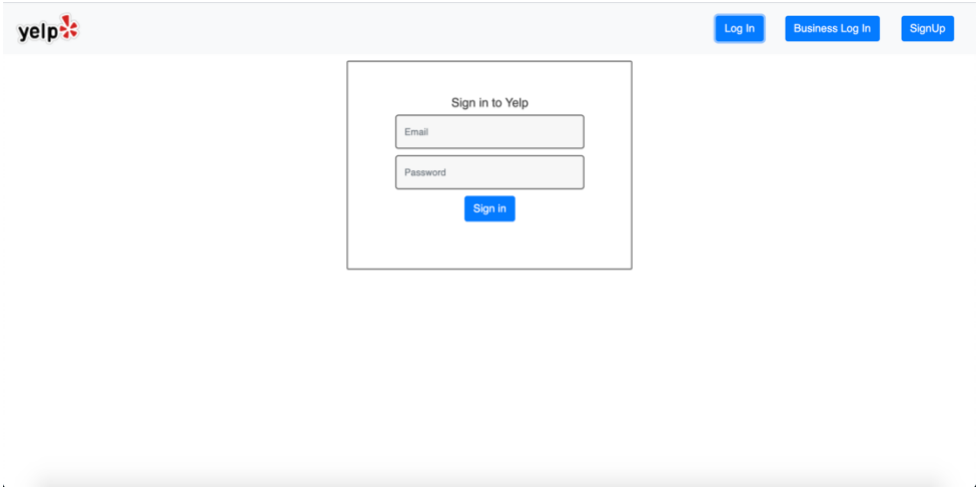
3 Database:

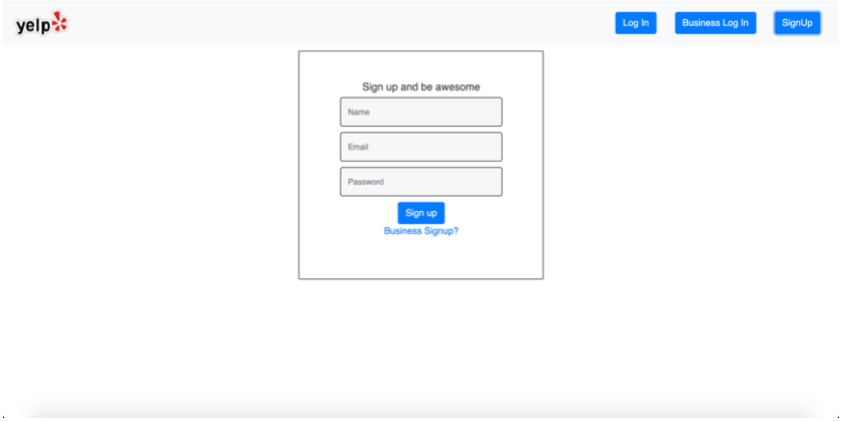
The database for the application is a NoSQL database MongoDB. This helps write simple function for database operations.

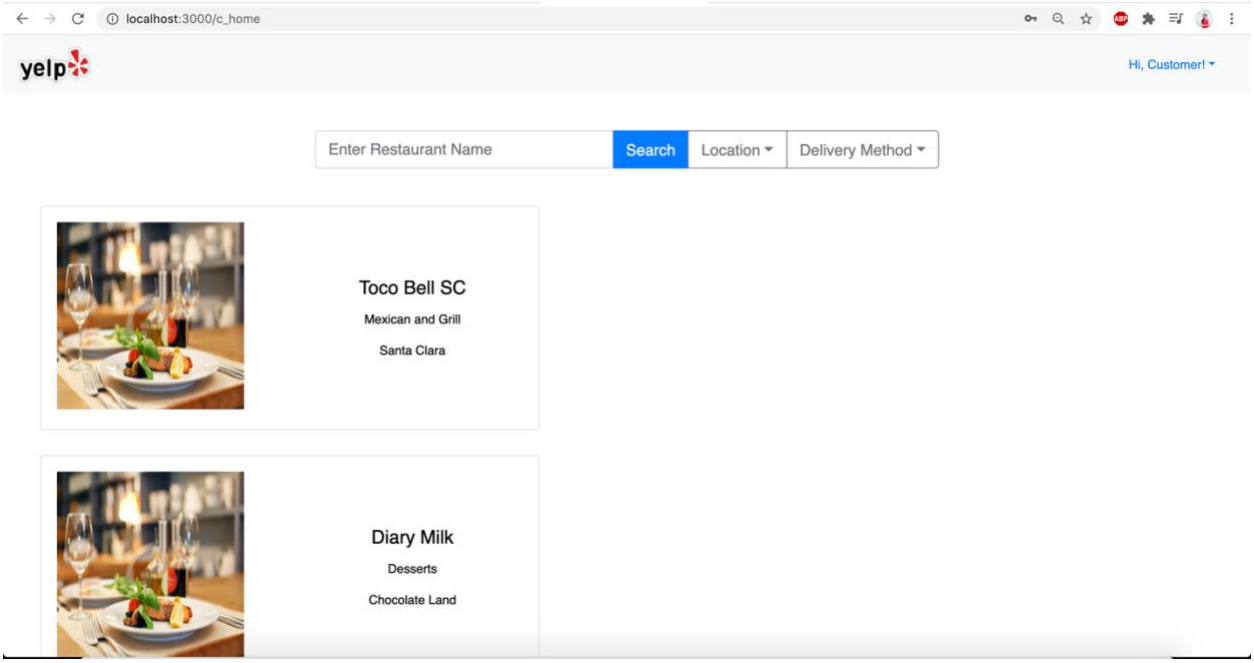
3 Screen from application

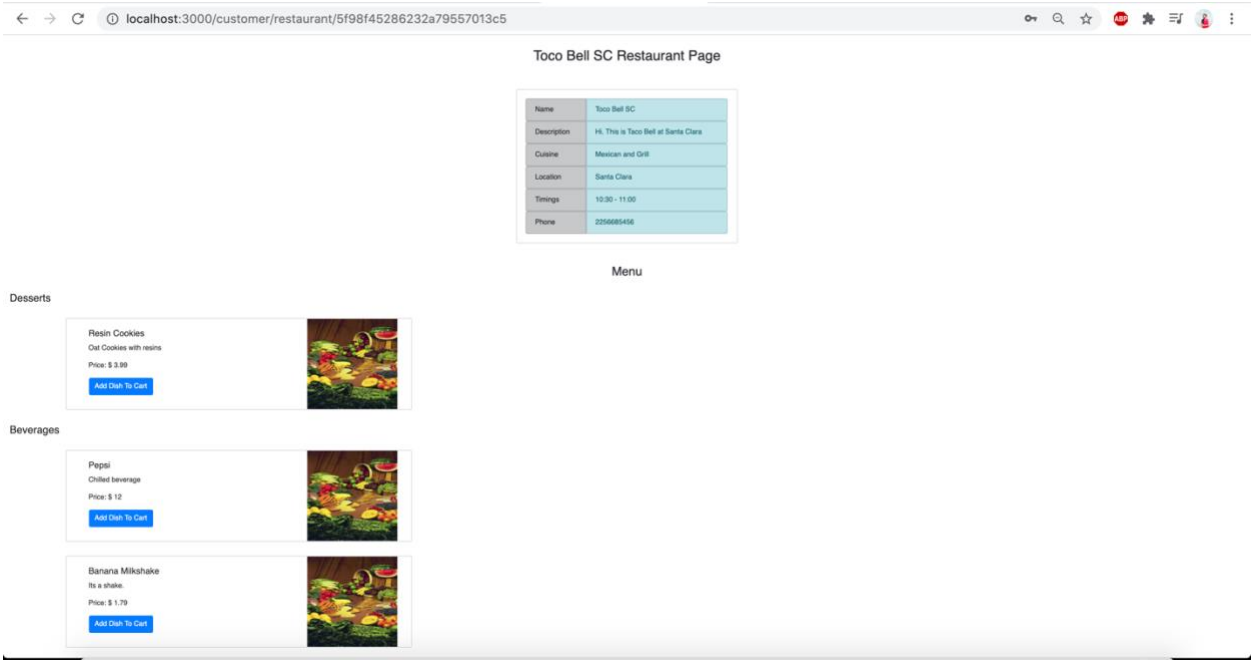


Customer Pages:






localhost:3000/c_home
yelp
Hi, Customer!
Enter Restaurant Name
Search
Location
Delivery Method
Toco Bell SC
Mexican and Grill
Santa Clara
Diary Milk
Desserts
Chocolate Land


localhost:3000/customer/restaurant/5f98f45286232a79557013c5
Toco Bell SC Restaurant Page
Name
Toco Bell SC
Description
Hi, This is Taco Bell at Santa Clara
Cuisine
Mexican and Grill
Location
Santa Clara
Timings
10:30 - 11:00
Phone
2256685456
Menu
Desserts
Resin Cookies
Oat Cookies with resins
Price: $ 3.99
Add Dish To Cart
Beverages
Pepsi
Chilled beverage
Price: $ 12
Add Dish To Cart
Banana Milkshake
Its a shake.
Price: $ 1.79
Add Dish To Cart

Review Restaurant

Rating

Rating

Review

Please write a Review

Submit Review

Home

localhost:3000/c_profile

Update Bhavana BS's Profile

Customer Name	Bhavana BS
About Me	I am Bhavana
City	Santa Clara
State	CA
Country	USA
Email	bhavana@gmail.com
Phone Number	2256685456
Date Of Birth	mm/dd/yyyy
Preferred Name	Bhavana
Join Date	Sat Dec 10
Blog url	https://kafka.apache.org/downloads
Favourite Hobby	Finding good tasty food
Favourite Restaurant	Taco Bell

Cancel Update Details

yelp

Hi, Customer!

No dishes in cart!

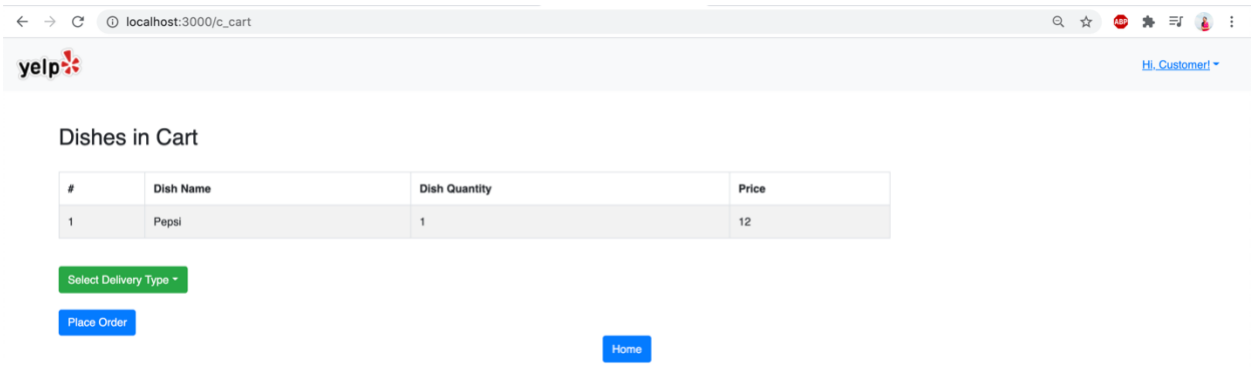
Home

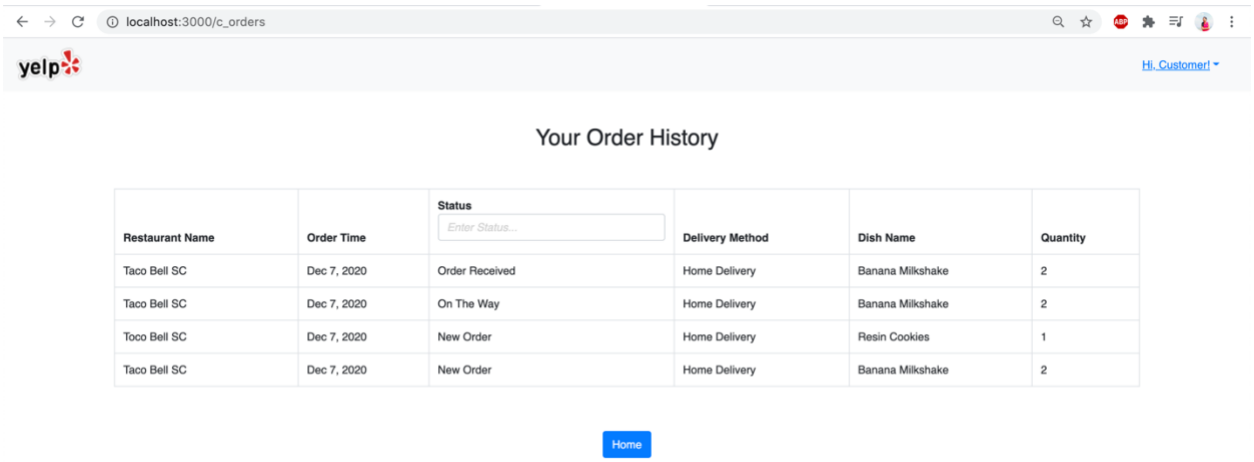
Buritto Updated

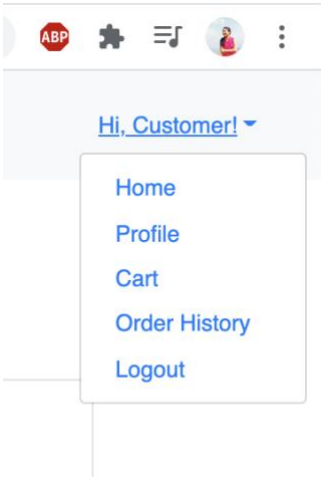
A super spicy buritto

Quantity: 1

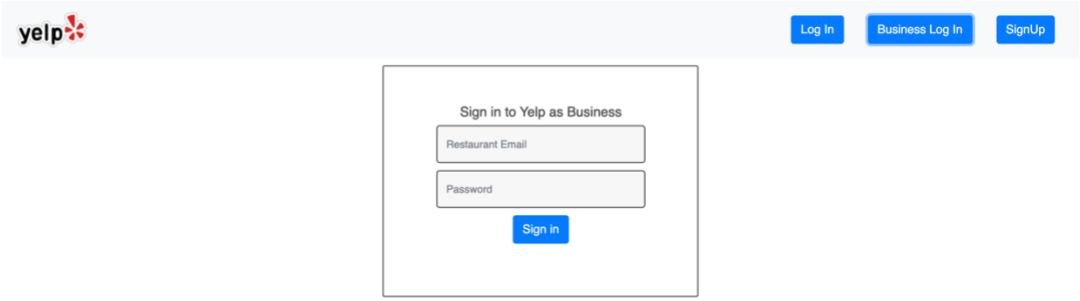
Close Add to Cart

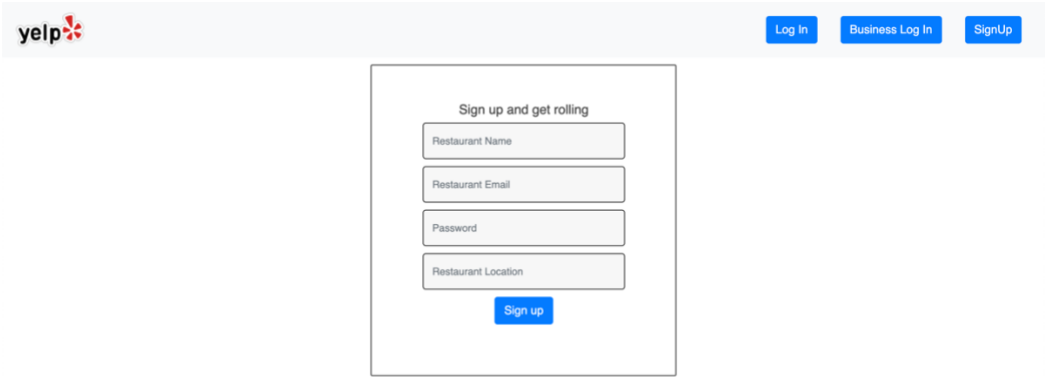

localhost:3000/c_cart
yelp
Hi, Customer!
Dishes in Cart
| Dish Name | Dish Quantity | Price
1 | Pepsi | 1 | 12
Select Delivery Type
Place Order
Home

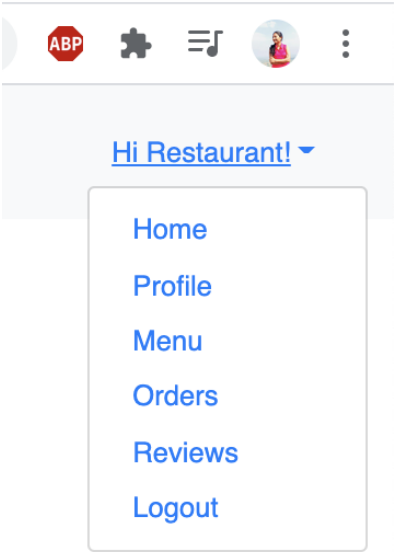

localhost:3000/c_orders
yelp
Hi, Customer!
Your Order History
Restaurant Name | Order Time | Status | Delivery Method | Dish Name | Quantity
Enter Status...
Taco Bell SC | Dec 7, 2020 | Order Received | Home Delivery | Banana Milkshake | 2
Taco Bell SC | Dec 7, 2020 | On The Way | Home Delivery | Banana Milkshake | 2
Toco Bell SC | Dec 7, 2020 | New Order | Home Delivery | Resin Cookies | 1
Taco Bell SC | Dec 7, 2020 | New Order | Home Delivery | Banana Milkshake | 2
Home

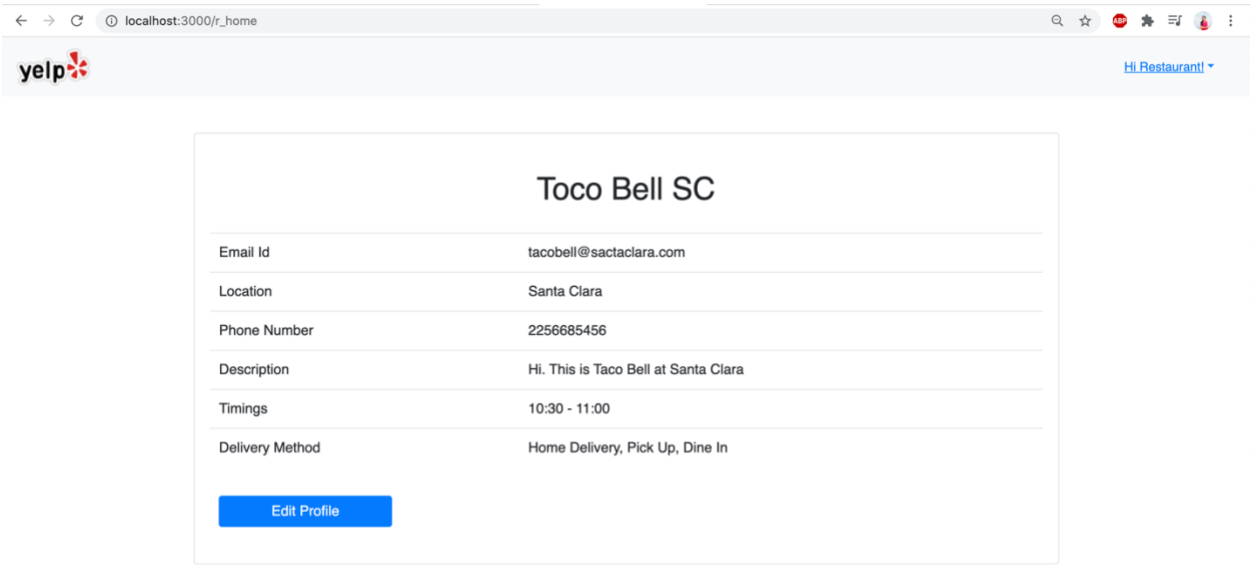

ABP
Hi, Customer!
Home
Profile
Cart
Order History
Logout

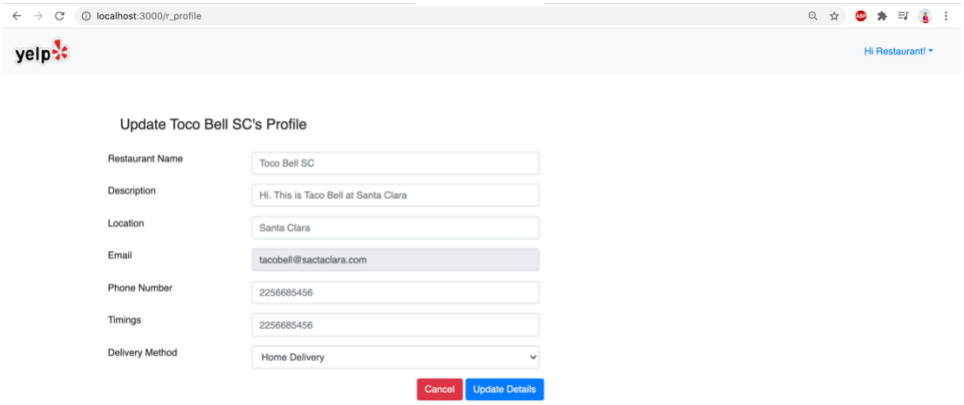
Business


yelp
Log In
Business Log In
SignUp
Sign in to Yelp as Business
Restaurant Email
Password
Sign in


yelp
Log In
Business Log In
SignUp
Sign up and get rolling
Restaurant Name
Restaurant Email
Password
Restaurant Location
Sign up


ABP
Hi Restaurant!
Home
Profile
Menu
Orders
Reviews
Logout


localhost:3000/r_home
yelp
Hi Restaurant!
Toco Bell SC
Email Id
tacobell@sactaclara.com
Location
Santa Clara
Phone Number
2256685456
Description
Hi. This is Taco Bell at Santa Clara
Timings
10:30 - 11:00
Delivery Method
Home Delivery, Pick Up, Dine In
Edit Profile


localhost:3000/r_profile
yelp
Hi Restaurant!
Update Toco Bell SC's Profile
Restaurant Name
Toco Bell SC
Description
Hi. This is Taco Bell at Santa Clara
Location
Santa Clara
Email
tacobell@sactaclara.com
Phone Number
2256685456
Timings
2256685456
Delivery Method
Home Delivery
Cancel
Update Details

yelp

Restaurant Menu

Add Dish

Menu

Desserts

Resin Cookies

Oat Cookies with resins

Price: $ 3.99

Edit

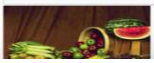
Beverages

Pepsi

Chilled beverage

Price: $ 12

Edit



Banana Milkshake

Its a shake

yelp

Restaurant Menu

Add Dish

Add A Dish

Name: Enter Dish Name

Description: Description of the dish

Ingredients: Ingredients in the dish

Price: Enter Dish Price

Category: Appetizer

Cancel Add Item

localhost:3000/r_orders

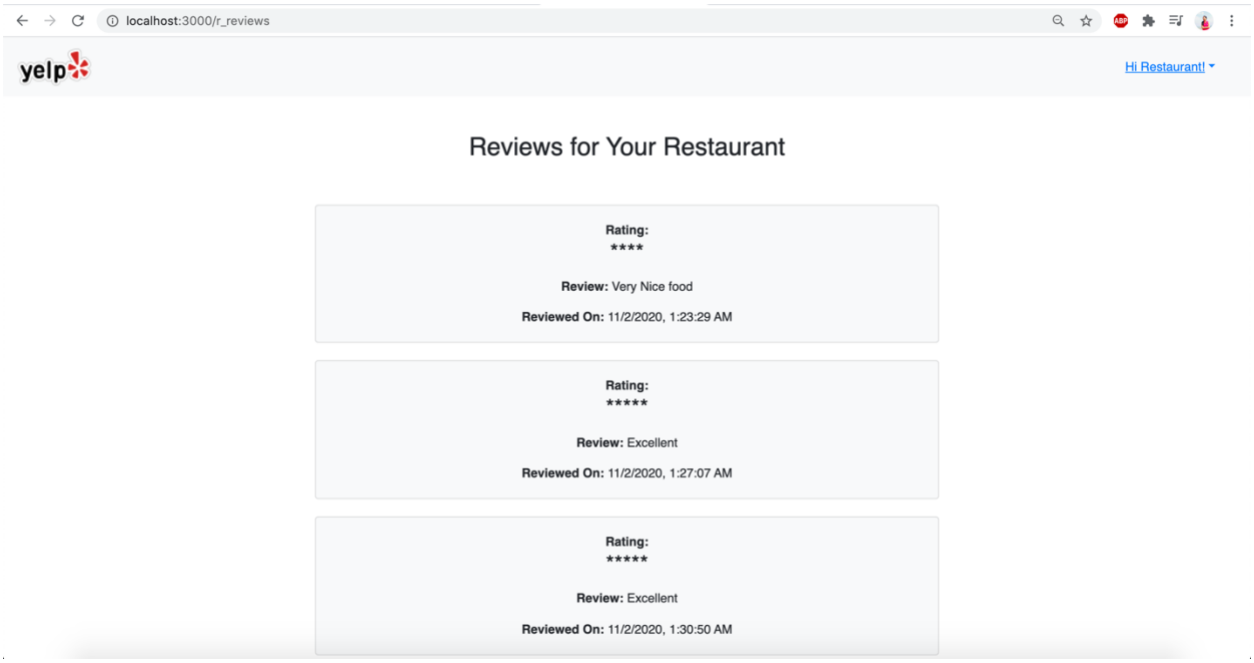
yelp

Hi Restaurant!

Your Orders

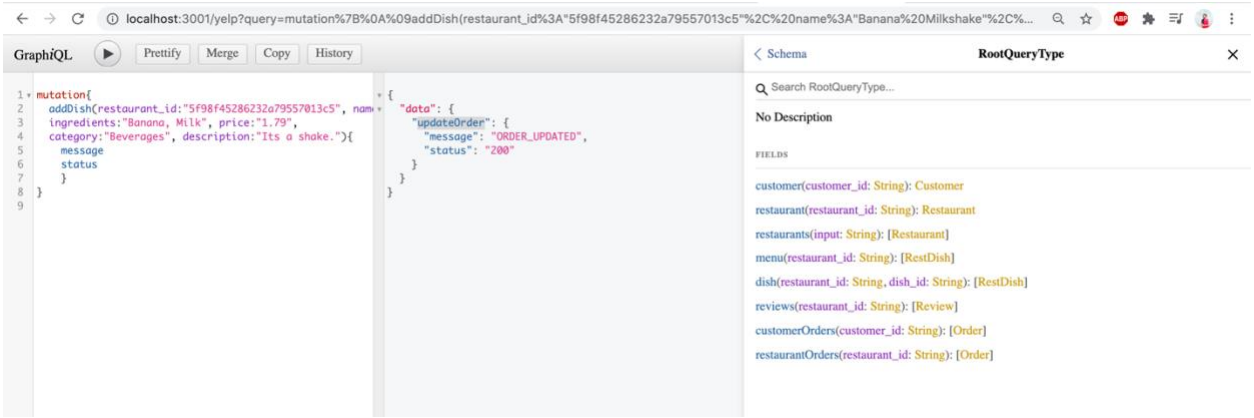
Customer	Order Time	Status Enter Status...	Update Status	Dish Name	Quantity	Delivery Method
Customer Details	Dec 7, 2020	Order Received	Order Recei	Banana Milkshake	2	Home Delivery
Customer Details	Dec 7, 2020	On The Way	On The Way	Banana Milkshake	2	Home Delivery
Customer Details	Dec 7, 2020	New Order	Order Recei	Resin Cookies	1	Home Delivery
Customer Details	Dec 7, 2020	New Order	Order Recei	Banana Milkshake	2	Home Delivery

Home



4 GraphQL screens

1. Page showing list of queries under RootQueryType and list of mutations under Mutation.



ke"%2C%...

Schema

Mutation

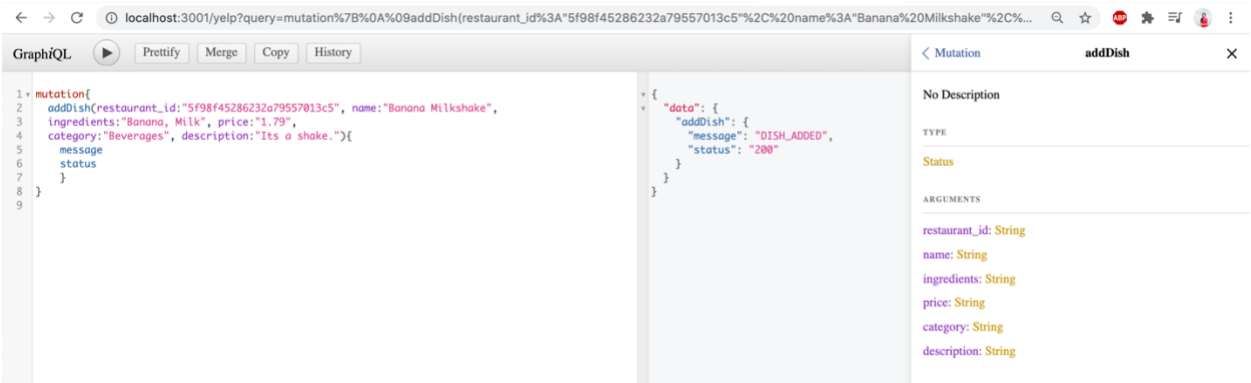
No Description

FIELDS

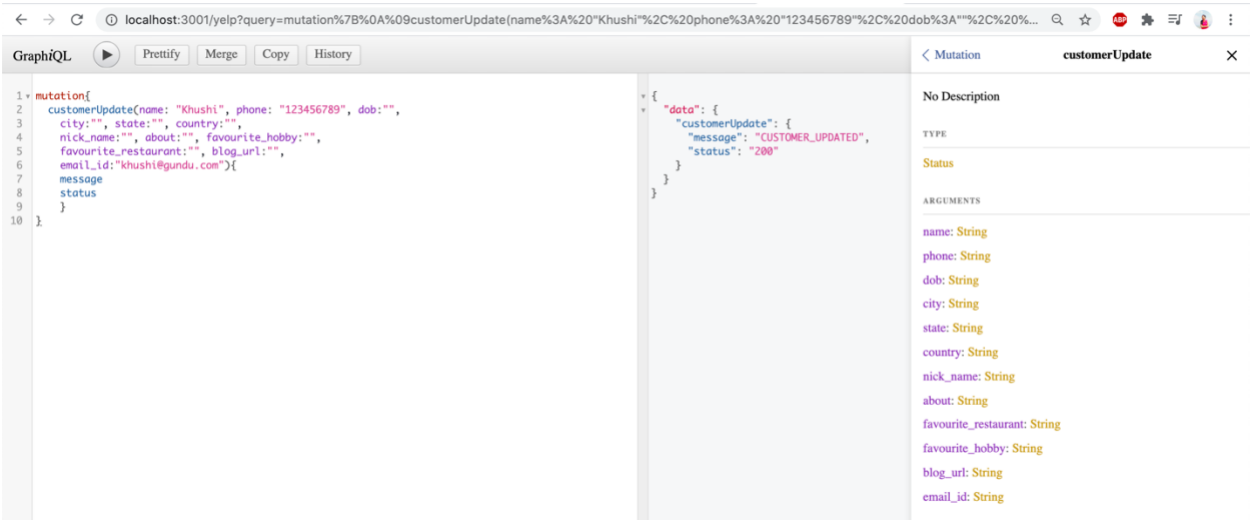
```
addCustomer(
  name: String
  email_id: String
  password: String
): Status

addRestaurant(
  name: String
  email_id: String
  password: String
  location: String
): Status

customerLogin(email_id: String, password: String): Status

restaurantLogin(email_id: String, password: String): Status

customerUpdate(
  name: String
  phone: String
  dob: String
  city: String
  state: String
  country: String
  nick_name: String
  about: String
  favourite_restaurant: String
  favourite_hobby: String
  blog_url: String
  email_id: String
): Status

restaurantUpdate(
  name: String
  location: String
  phone: String
  description: String
  timings: String
  cuisine: String
  delivery_method: String
  email_id: String
): Status

createOrder(
  customer_id: String
  restaurant_id: String
  delivery_method: String
  dish_name: String
  quantity: Int
  restaurant_name: String
): Status

updateOrder(order_id: String, status: String): Status

addReview(
  rating: String
  review: String
  restaurant_id: String
): Status

addDish(
  restaurant_id: String
  name: String
  ingredients: String
  price: String
  category: String
  description: String
): Status
```

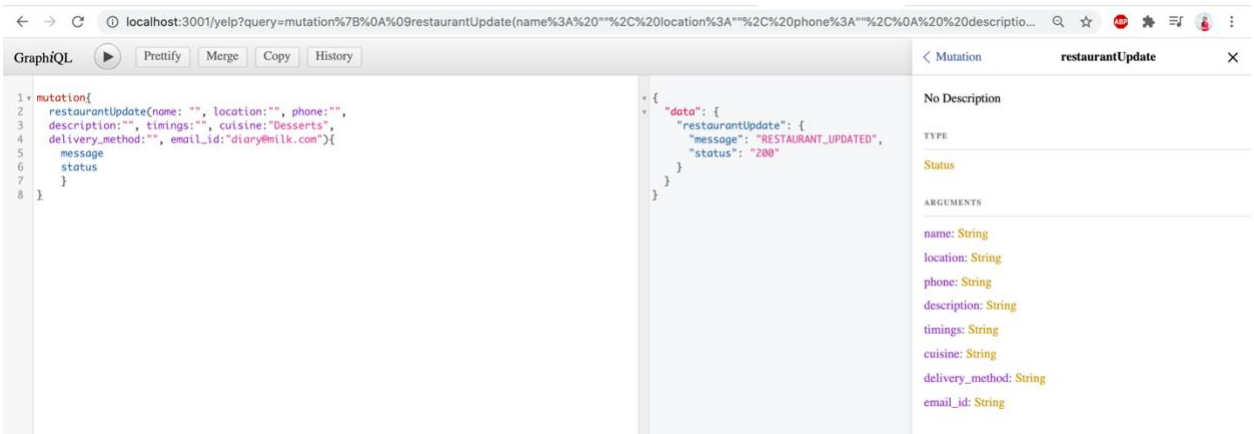
2. Page showing input & output of a Restaurant Login.

3. Page showing input and output for Adding a dish.

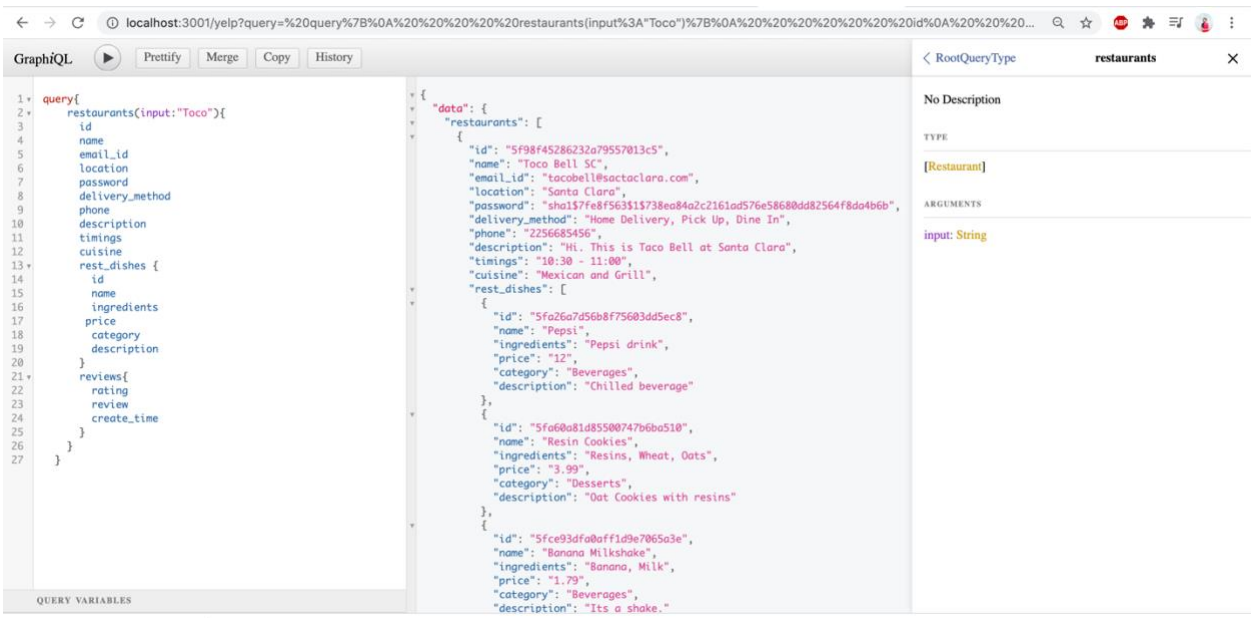


4. Page showing input and output for updating any part of the Profile page.

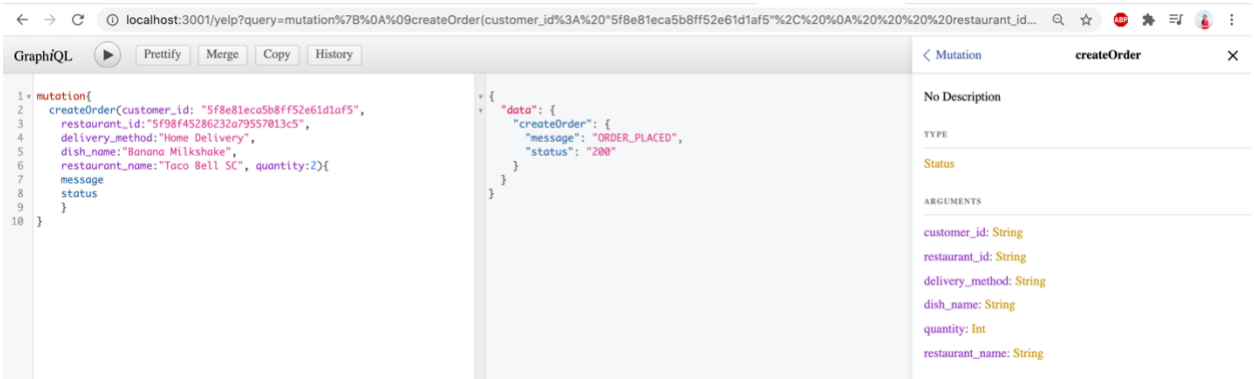




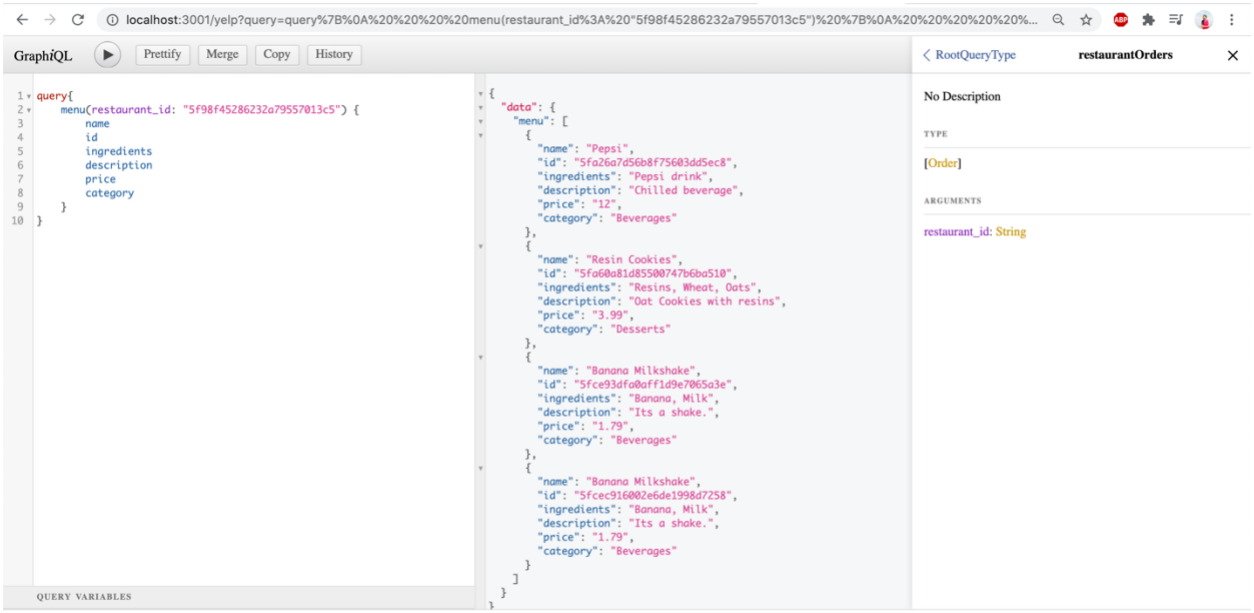
5. Page showing input and output for Restaurant Search.



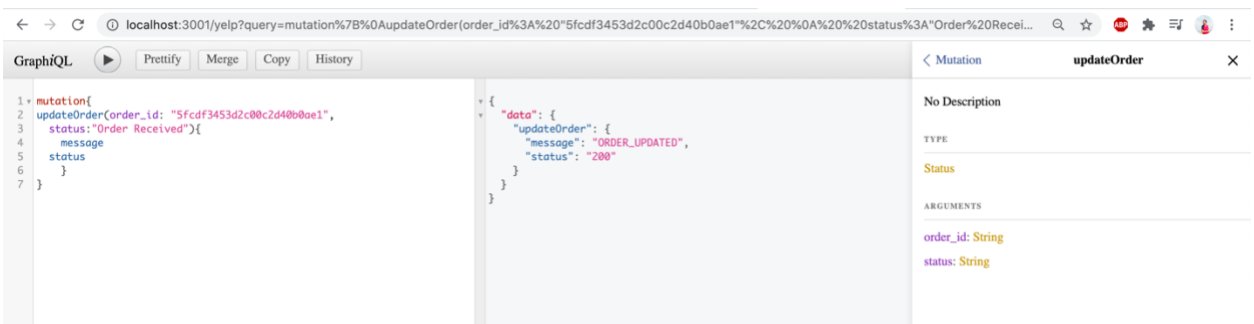
6. Page showing input and output for placing an order.



7. Page showing input and output for getting a list of orders for a restaurant.



8. Page showing input and output for updating delivery status for an order.



5 Enabling multi-part data in GraphQL

For Multi-part data upload using GraphQL, it needs a field called query.

6 Architecture for enabling multi-part data in GraphQL

Server side: We need to read the file from the multipart-request, using multer. The file(s) will then be available on the request object, which can be passed into context and processed in the resolve function. The resolve function can upload the file to the the required directory and return the URL.

Client side: We use React Apollo on the client-side to handle GraphQL requests. Here we need to code so that it is capable of accepting multipart requests.

7 State any open-source library for enabling multi-part data transfer using GraphQL with sample code. Argue why do you think that this particular library is a good fit.

Multer is a good open-source library for enabling multi-part data transfer.

```
graphQLServer.use(multer({
storage: multer.memoryStorage(),
}).any());
```

I think this is the best as multer handles parsing of the raw Http request at the time of file upload.

8 Git Commit history