**Client/Server Interactions**

**Searching from the home page:**

POST request:

* Location: LatLng
* Restaurant name (optional): string

Response:

* Send back restaurant objects within the location from the server, if a name is given then only display the restaurant object matching that name.

**Updating search from the results page:**

POST request:

* Filter options (Ratings, Average Price etc.)
* Location: LatLng (if different from original search)

Response:

* Send back restaurant objects within the location that match filtered options

**Clicking on a restaurant page:**

GET request:

* Restaurant object that was clicked on

Response:

* Restaurant objects page, contains pictures, reviews, average price, description

**Making a reservation:**

POST request:

* Customer object
* Booking date
* Booking time
* Number of people

Response:

* Reservation object, page saying the reservation was successful and displaying the relevant information

**Writing a review:**

POST request:

* Customer object (who is writing the review)
* Restaurant object (that the review is about)
* Ratings based on price, food, service (number out of 5)

Response:

* Review object, the review is displayed on the restaurant objects page

**Logging In:**

POST request:

* Username
* Password

Response:

* Customer object that matches login information, error message if none are found. Create user session.

**Signing Up:**

POST request:

* Username
* Password
* Name
* Phone number
* DOB
* Email
* User type (customer, restaurateur)

Response:

* Customer or Restaurateur object created, create user session

**Logging Out:**

POST request:

* String indicating login request

Response:

* User session ended

**Database:**

Customer Object:

* Name : string
* Date of Birth : dd/mm/yyyy formatted string
* Phone Number : string
* Email Address : string
* Reservations : array of reservation objects
* Address : string
* Age : int

Restaurateur Object:

* Name : string
* Date of Birth : dd/mm/yyyy formatted string
* Phone Number : string
* Email Address : string
* Restaurants: array of restaurant objects
* Address : string
* Age : int

Restaurant Object:

* Name : string
* RestaurantID : int
* Description : string
* Number\_of\_tables : int
* Location : LatLng

Reservation Object:

* Date : dd/mm/yyyy formatted string
* Time : mm::hh am/pm formatted string
* Number\_of\_people : int
* Res\_ID : int
* Customer : Customer object

Review Object:

* Text : string
* Price\_Rating : int
* Service\_Rating : int
* Food\_Rating : int