Design Document for Restaurant Recommendations

Group MC-03

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**Diagram

Description automatically generated**

Backend:

UserController:

* /adduser – When given all details of the user class(firstname,lastname,user,password,email,birthday)
* /login – When given a username and password, and is correct, the user is supplied with a cookie and success status code. The user keeps track of the cookie.
* /logout – When given a cookie\_id and username, the user will delete the cookie in the server, and “logs out” the user.
* /userchange – allow the change of firstname, lastname, username, and email

RestaurantContoller:

* /randomRestaurant/byZipCode – returns a random restaurant based on the zip code and what the Yelp API returns

Cookie:

* Keeps track of device hostname, username, and login time of the user

UserReviewController:

* /addreview – allows user to add a review if logged in
* /getReviewsByRID – returns list of reviews by restaurant
* /getReviewsByUID – returns list of reviews by user

Yelp

**Business**

* **Business Class –** Java class that represents a business in the Yelp API. Has various properties such as *location, categories, name, etc.*
* **Business Repository Class –** Java class that handles search calls to the Yelp API with the *findBusinesses(Map<String, String> parameters)* which is given a map of parameters that are then sent to the Yelp API which returns an array of **Business.** **ListResponseBody Class** – Java class that is used to receive the Yelp API response when making a GET call for a business search. Has properties *center, region, businesses, and total.*

**YelpReviews**

* **YelpReviews Class –** Java class that represents a Yelp User Review in the Yelp API. Has properties such as *User, id, text, rating, etc.*
* **YelpReviewsListResponseBody Class –** Java class that is used to receive the Yelp API response when making a GET call for YelpReviews.
* **YelpReviewsRepository –** Java class that handles search calls to the Yelp API for User Reviews for Yelp restaurants. Currently allows for searching for reviews for a given business using either the business object or a unique business id.

Diagram

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