

## Quick Eats

### Description

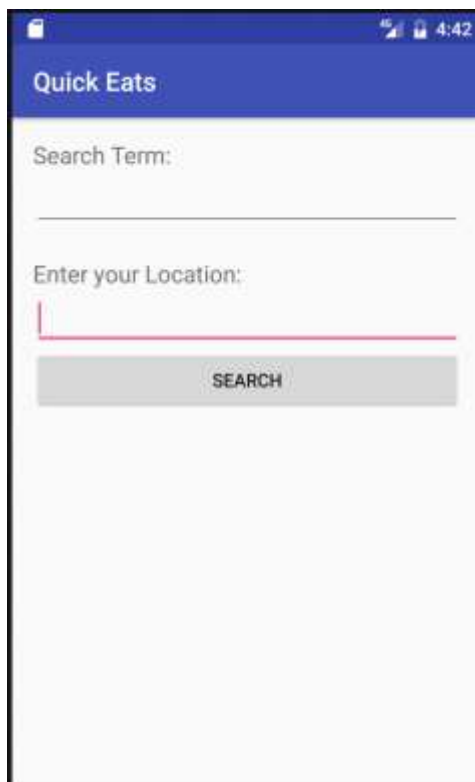
My application will take a term and location from the user and display the three closest restaurants matching their term.

### Implement a native Android Application

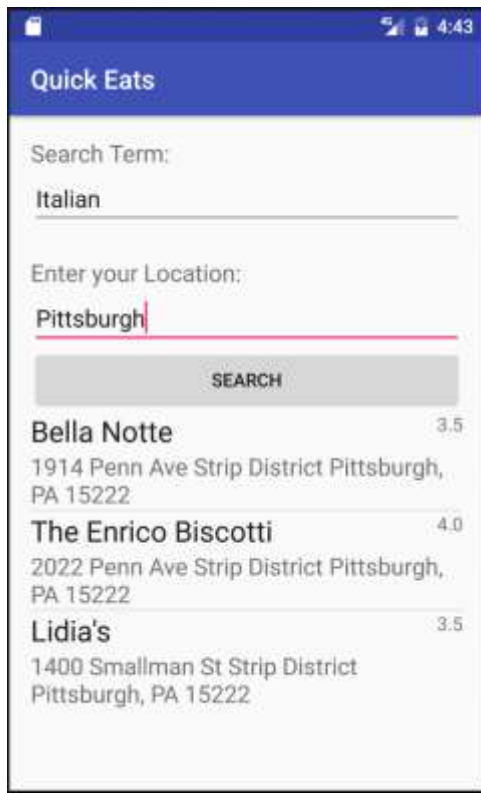
The name of my native Android project in Android studio is: QuickEats

It has two different kinds of views in the main activity layout: TextView and ListView

Here's a screenshot of the initial screen:



This is a screenshot after the user searches for a term and location:



#### HTTP Request to Web Service:

My application performs an HTTP GET request in SearchYelp.java. The HTTP request is:

*"REMOVED FOR PRIVACY"*

After retrieving the response from the servlet, the application will parse the JSON string to display the restaurant information on the UI.

#### Example JSON Response:

An example JSON response from the servlet is:

```
{ "businesses": [ { "name": "China Wok", "rating": "3.5", "address": "1202 5th Ave The Hill District Pittsburgh, PA 15219" }, { "name": "Chinatown Inn", "rating": "4.0", "address": "520 3rd Ave Downtown Pittsburgh, PA 15219" }, { "name": "Top Shabu-Shabu & Lounge", "rating": "3.5", "address": "114 Atwood St Oakland Pittsburgh, PA 15213" } ] }
```

#### Implement a web application, deployed to Heroku

The URL of my web service deployed to Heroku is: REMOVED FOR PRIVACY

The project directory name is Project4Task1b

The servlet will receive the HTTP get request from the android device with the arguments of term and location. It passes these information to the model.

The model will make an HTTP request to <http://api.yelp.com/v2/search>.

It will return a JSON string that the model will parse to retrieve only the relevant information. Once this is done, it will format the response as a JSON to return to the android application.

## Mongo DB

The servlet will log all restaurants and requests to an mongodb hosted at this URI:

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When it logs a restaurant to the database, it will first check to see if the restaurant exists. If it does exist, it does not do anything. If the restaurant does not exist, it will add the restaurant to the database.

The database will store the name, address, and rating of each restaurant.

The servlet will log each request to the database, even if the term and location already exists.

The database will store the term, location, timestamp of the request, the device the user made the request on, and how long the delay was in retrieving the response from Yelp.

The servlet has the Project4Servlet that acts as the controller, the Model which acts as the model, and the dashboard.jsp which acts as the view.

## Dashboard

When the user visits the URL: [REMOVED FOR PRIVACY](#)

They will be presented with a dashboard that displays the following information:

1. Most popular term
2. Most popular location
3. Average rating of all restaurants in the database
4. Average delay from yelp from all the requests
5. A table of all made requests
  - a. If the term is blank, that means the user left the term blank.
6. A table of all the restaurants in the database

Below is a screenshot of the dashboard:

## Dashboard

Most Popular Term	Chinese
Most Popular Location	Pittsburgh
Avg Restaurant Rating	3.8563333333333335
Avg Delay from Yelp	729.1428571428571

Entered Term	Entered Location	Timestamp	Device Type	Delay from Yelp
	Pittsburgh	11/18/2016 14:36:17		2051.0
	Pittsburgh	11/18/2016 14:36:25		412.0
Chinese	Rockville	11/18/2016 15:31:04		524.0
Chinese	Pittsburgh	11/18/2016 15:31:30		358.0
Chinese	Pittsburgh	11/18/2016 15:31:34		528.0
Chinese	Pittsburgh	11/18/2016 15:31:37		536.0
Isabel	New York	11/18/2016 20:54:43	Android	692.0

Name	Address	Rating
Prestigeorge Fine Foods	1719 Penn Ave Strip District Pittsburgh, PA 15222	4.5
Robert Wholey and Co Fish Market	1711 Penn Ave Strip District Pittsburgh, PA 15222	4.0
La Prima Espresso Co	205 21st St Strip District Pittsburgh, PA 15222	4.5
Yuan Fu Vegetarian	798 Rockville Pike Rockville, MD 20852	4.0
East Pearl Restaurant	838 B Rockville Pike Rockville, MD 20852	3.5
Jumbo Jumbo Cafe Bubble Express	766 Rockville Pike Unit E Rockville, MD 20852	3.5
China Wok	1202 5th Ave The Hill District Pittsburgh, PA 15219	3.5
Chinatown Inn	520 3rd Ave Downtown Pittsburgh, PA 15219	4.0
Top Shabu-Shabu & Lounge	114 Allewood St Oakland Pittsburgh, PA 15213	3.5
Da Claudio	21 Ann St Financial District New York, NY 10038	4.5
Pellegrino's Italian Restaurant	136 Mulberry St Little Italy New York, NY 10013	4.0
Aunt Jake's	151 Mulberry Street Little Italy New York, NY 10013	4.0