

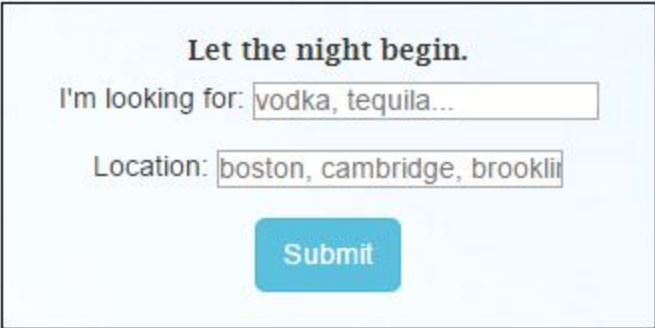
Project Deliverable 5

Prototyping Database Functionality

We use MongoDB as our database.

For our search results, we fetch restaurant data and return strings such as the Restaurant Name, Price Level, Photo URL, and address from an external source: Yelp Restaurant API (more details below). Our web form prompts the user for a search term. If the search hasn't been made before, we store this information in our database. However if the search has been made in the past with the exact terms, we access our database, and return the corresponding strings as cached results.

Our Web Form:




Let the night begin.

I'm looking for:

Location:

Sample results called from the Yelp API: for the search *'Bourbon'* in *Seattle* is pictured below:

```
{
  "_id": {
    "$oid": "58fd06d45c450147184ff835"
  },
  "queryterm": "bourbon",
  "querylocation": "seattle",
  "restaurant1": "Bourbon & Bones",
  "rating1": "Rating: 3.5",
  "address1": [
    "4350 Leary Way NW",
    "Seattle, WA 98107"
  ],
  "photo1": "https://s3-media1.fl.yelpcdn.com/bphoto/EMeZ7VcrjtkdhlhlpLFOJA/o.jpg",
  "price1": "Price Level: $$",
  "restaurant2": "The Bourbon Bar",
  "rating2": "Rating: 4",
  "address2": [
    "4916 Rainier Ave S",
    "Columbia City Theater",
    "Seattle, WA 98118"
  ],
  "photo2": "https://s3-media2.fl.yelpcdn.com/bphoto/KaBMFjzg1zIRTEKz3vDeiA/o.jpg",
  "price2": "Price Level: $$",
  "restaurant3": "Radiator Whiskey",
  "rating3": "Rating: 4.5",
  "address3": [
    "94 Pike St",
    "Ste 30",
    "Seattle, WA 98101"
  ],
  "photo3": "https://s3-media4.fl.yelpcdn.com/bphoto/saw3PInZX0sNoD3Hb6Fr5g/o.jpg",
  "price3": "Price Level: $$"
}
```



Description of schema:

```
var resultSchema = new Schema({

  queryterm: String, // input search term - alcoholic drink or restaurant
  querylocation: String, // ideal location to look up

  // Return Top 3 Restaurants
  //Restaurant/Bar 1
  restaurant1: String, // name of restaurant
  rating1: String, // five star rating
  address1: String, // complete mailing address of restaurant
  photo1: String, // url of photo to be displayed
  price1: String, // price range, $, $$, $$$

  //Restaurant/Bar 2
  restaurant2: String,
  rating2: String,
  address2: String,
  photo2: String,
  price2: String,

  //Restaurant/Bar 3
  restaurant3: String,
  rating3: String,
  address3: String,
  photo3: String,
  price3: String
});
```

Screenshot of terminal Search Result vs Cached Result

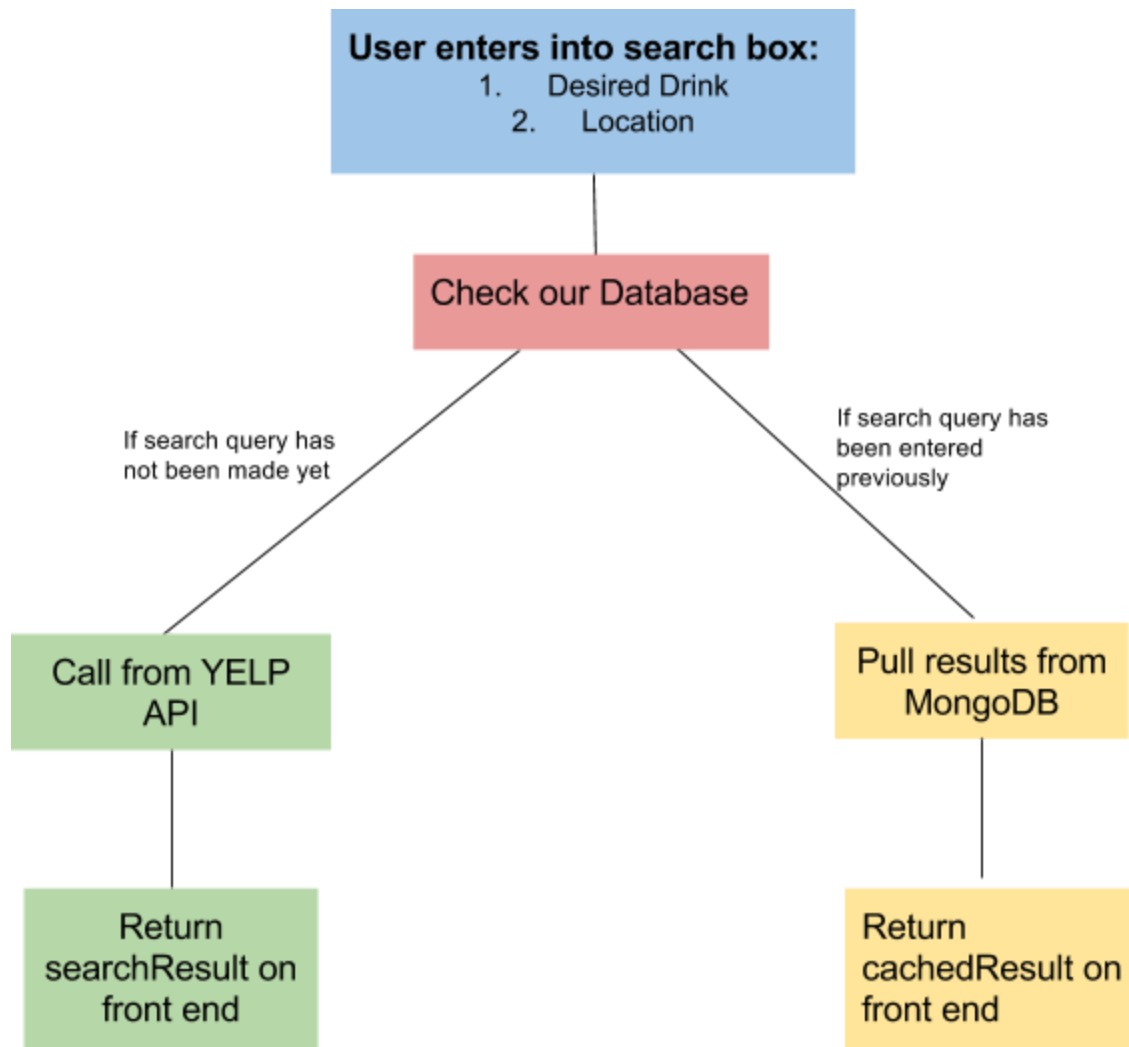
Cached Search:

Snippet of New Search:

```
SEARCH = margarita
LOCATION = new mexico
Doesn't exist! Call the Yelp API + storing in db!
Cervantes Restaurant & Lounge
***FIRST THREE RESULTS***
**Query search = margarita
**Query location = new mexico
Name 1: Cervantes Restaurant & Lounge
Rating: 4
Location: [object Object]
Price Level: $$
Successfully stored new results into database!
```

```
SEARCH = bourbon
LOCATION = seattle
Found! An entry already exists in database.
[ { _id: 58fd06d45c450147184ff835,
  queryterm: 'bourbon',
  querylocation: 'seattle',
  restaurant1: 'Bourbon & Bones',
  rating1: ' Rating: 3.5',
  address1: [ '4350 Leary Way NW', 'Seattle, WA 98107' ],
  photo1: 'https://s3-media1.fl.yelpcdn.com/bphoto/EMeZ7VcrjtkdIhIhpLFOjA/o.jpg',
  price1: 'Price Level: $$',
  restaurant2: 'The Bourbon Bar',
  rating2: ' Rating: 4',
  address2: [ '4916 Rainier Ave S', 'Columbia City Theater', 'Seattle, WA 98118' ],
  photo2: 'https://s3-media2.fl.yelpcdn.com/bphoto/KaBMFjzg1z1RTEKz3vDeiA/o.jpg',
  price2: 'Price Level: $$',
  restaurant3: 'Radiator Whiskey',
  rating3: ' Rating: 4.5',
  address3: [ '94 Pike St', 'Ste 30', 'Seattle, WA 98101' ],
  photo3: 'https://s3-media4.fl.yelpcdn.com/bphoto/saw3PlnZX0sNoD3Hb6Fr5g/o.jpg',
  price3: 'Price Level: $$' } ]
```

Flow diagram of how this works:



Display Search Result if Query does not exist in mongoDB:

Looking For: Margaritas
Location: Mexico

the liquor locator.

Displaying the Top 3 Local Results:




Location 1:	Location 2:	Location 3:
Cervantes Restaurant & Lounge	Backstreet Grill	Zacatecas
		
<p>Cervantes Restaurant & Lounge</p> <ul style="list-style-type: none">Rating: 4 starsPrice Level: \$\$5801 Gibson Blvd SE, Albuquerque, NM 87108	<p>Backstreet Grill</p> <ul style="list-style-type: none">Rating: 4 starsPrice Level: \$\$1919 Old Town Rd NW, Ste 6, Albuquerque, NM 87104	<p>Zacatecas</p> <ul style="list-style-type: none">Rating: 3.5 starsPrice Level: \$\$3423 Central Ave NE, Albuquerque, NM 87106

Display Cached result if already in mongoDB:

Looking For: Bourbon
Location: Seattle

the liquor locator.

Displaying the Top 3 Local Results (Cached):

Bourbon & Bones	The Bourbon Bar	Radiator Whiskey
		
<p>Bourbon & Bones</p> <ul style="list-style-type: none">Rating: 3.5 starsPrice Level: \$\$4350 Leary Way NW, Seattle, WA 98107	<p>The Bourbon Bar</p> <ul style="list-style-type: none">Rating: 4 starsPrice Level: \$\$4916 Rainier Ave S, Columbia City Theater, Seattle, WA 98118	<p>Radiator Whiskey</p> <ul style="list-style-type: none">Rating: 4.5 starsPrice Level: \$\$94 Pike St, Ste 30, Seattle, WA 98101