

# Welcome to StarBox.



Sakina Das  
Zohreh Sadeghi  
Inno Irving V. Estrera

## Application description

Our application is designed to maintain a catalog for a list of drinks for a Coffee Shop and facilitate a method to search for a beverage and get the list of locations it is available at.

The application enables users to navigate through a list of beverages called “Offering Type” or search for a drink based on four criterias namely “Ingredients”, “Tags”, “Types” and “Name”.

The user also has the flexibility to search directly through the menu of items and proceed through a chain of links or search based on “any” or “all” available criteria.

**The development for this application has been executed using:**

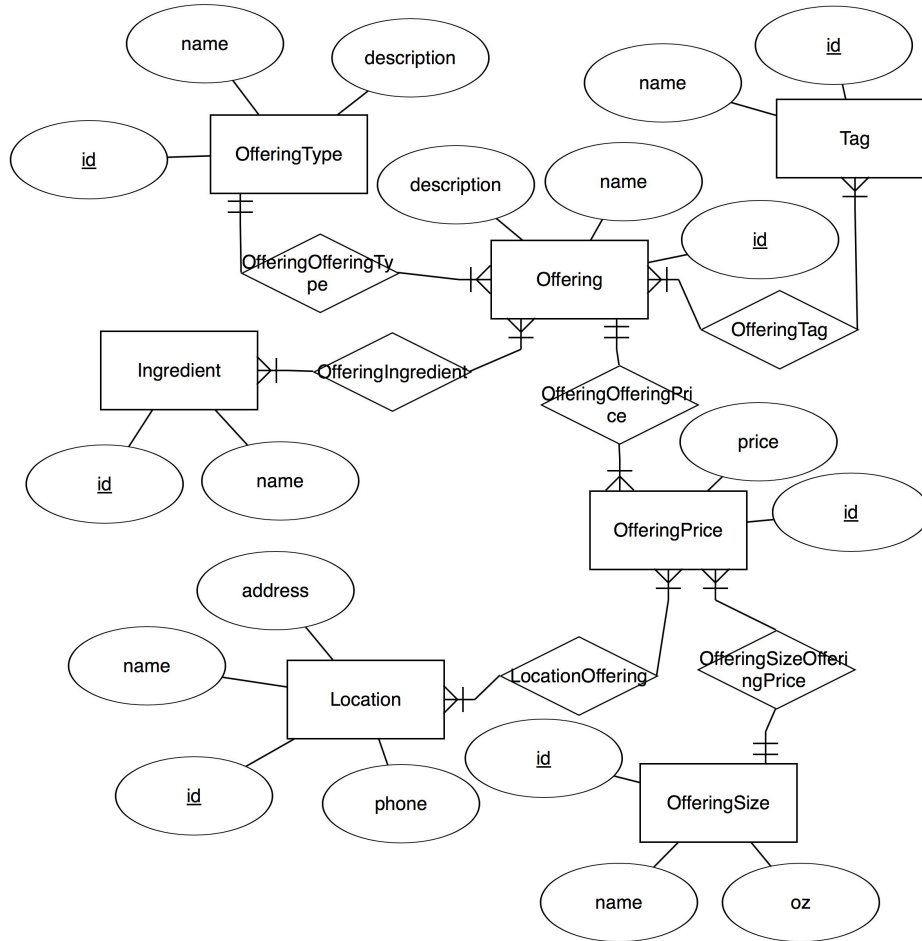
**ExpressJS** (*Express* - Fast, unopinionated, minimalist web framework for Node.js.)

**Node** (JavaScript runtime built on Chrome's V8 JavaScript engine. Event-driven, non-blocking I/O model, lightweight and efficient.)

**BootStrap** (Responsive, Open source and extended JS plugins)

**MySQL** (open-source relational database management system)

# Application description



# The Rapid Growth of Unstructured Data

**571 new websites are created every minute of the day.**



**Brands and organizations on Facebook receive 34,722 Likes every minute of the day.**



**Decoding the human genome originally took 10 years to process; now it can be achieved in one week.**

# Raw data and back end design

The official source (raw data) of our database is from “Starbucks”.

Here, we have table offering -> comprises of all the **green text** as in the starbucks menu.

```
mysql> describe offering;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(255)	YES		NULL	
description	varchar(255)	YES		NULL	
offeringTypeId	int(11)	NO	MUL	NULL	

id	name	description	offeringTypeId
1	Regular Coffee	Our best blend	1
2	Cappuccino	Creamy and delicious	1
3	Iced Tea	Best tea in the world, iced.	2
4	Iced Coffee	Our regular brewed coffee, iced.	2
5	Lemon Ale Fizzio	real lemon juice with a hint of apricot and ginger	3
6	Ginger Ale	not your average ginger ale	3
7	Caffe Americano	Watered down espresso mixed with milk	4
8	Caffe Latte	Large espresso mixed with milk	4
9	Caramel Frappuccino	Regular coffee iced and mixed with salted caramel	5
10	Almond Frappuccino	Regular coffee iced and mixed with almond flakes	5

Starbucks Refreshers™ Beverages

Starbucks Refreshers™ Beverages

Evolution Fresh™

Discover Evolution Fresh Cold-Pressed Juice.

Cold Brew and Iced Coffee

Cold Brew and Iced Coffee

Iced Tea

Iced Tea

Bottled Drinks

Now you can take Starbucks with you wherever you go.

Freshly Brewed Coffee

Artfully roasted and brewed fresh all day long, every day.

Chocolate Beverages

Luxurious hot chocolate for the sophisticated palate.

Starbucks Espresso Beverages

Lattes, cappuccinos, macchiatos, mochas and much more.

Frappuccino® Blended Beverages

The icy-cold original we made famous.

Kids' Drinks & Others

Some fun, flavorful alternatives for anyone to enjoy.

Smoothies

Nourishing blends made with real fruit and other good stuff.

Fizzio™ Handcrafted Sodas

Handcrafted sodas with no high-fructose corn syrup, artificial flavors, or preservatives.

## Raw data and back end design

OfferingType
<b>Id</b>
<b>Name</b>
<b>Description</b>

Offering
<b>Id</b>
<b>Name</b>
<b>Description</b>
<b>OfferingTypeId</b>

OfferingPrice
<b>Id</b>
<b>OfferingId</b>
<b>OfferingSizeId</b>
<b>Price</b>

Location
<b>Id</b>
<b>Name</b>
<b>Address</b>
<b>Phone</b>

OfferingTag
<b>OfferingId</b>
<b>TagId</b>



## Raw data and back end design

Tag
<b>Id</b>
<b>Name</b>

Ingredient
<b>Id</b>
<b>Name</b>

OfferingSize
<b>Id</b>
<b>Name</b>
<b>Oz</b>

LocationOffering
<b>Location Id</b>
<b>OfferingPriceId</b>

OfferingIngredient
<b>OfferingId</b>
<b>IngredientId</b>

## Functionalities at glance

The application is instilled with some functionalities like:

1. Search by selecting ALL options:
  - a. The user can input words in all the options to get a particular drink by choice.
2. Search by selecting ANY option:
  - a. The user can input a word in any the options to get a particular drink by choice.
3. A menu is displayed from the home page from where the user can narrow down the following steps:
  - a. Offering types -> Offerings -> Drink details -> Available location.
4. We have backlinks that increase the flexibility of the app.
  - a. If the user is viewing the details (ingredients, locations or tags) for an item, he can click any of the options and that would produce results based on a refined search considering that "search" as criteria for lookup.



# Functionality #1

The first implementation is “Searching using “**ALL**” options”.

**Name:** (“Caramel Frappuccino”, “Nitro Cold Brew”, “Caffe Latte”...)

**and**

**Type:** (“cold drink”, “soda”, “freshly brewed”...)

**and**

**Tags:** (“regular”, “hot”, “creamy”...)

**and**

**Ingredients:** (“chocolate”, “ginger”, “eggnog”...).

When user clicks on “search” button he is directed to a more narrower result.

Eg. User search is “Caffe Latte, freshly brewed, hot, chocolate)

Result: All items that contain these parameters will be shown and the “details” and “location of availability” will be displayed.

The screenshot shows the Starbox search interface. At the top, there is a navigation bar with 'Starbox', 'Home', and 'Search' links. Below this is a search form titled 'Search' with a magnifying glass icon. The form includes a section for 'Find offerings that match ...' with two radio buttons: 'all these conditions.' (selected) and 'any these conditions.'. Below this are four input fields: 'Name' (placeholder: Offering name), 'Type' (placeholder: Offering type), 'Tags' (placeholder: Offering tags), and 'Ingredients' (placeholder: Offering ingredients). Each field has a small icon to its right. At the bottom right of the form are two buttons: 'Clear' (with a trash icon) and 'Search' (with a magnifying glass icon).

## Functionality #2

The second implementation is “Searching using **ANY** options”.

**Name:** (“Caramel Frappuccino”, “Nitro Cold Brew”, “Caffe Latte”...)

**or**

**Type:** (“cold drink”, “soda”, “freshly brewed”...)

**or**

**Tags:** (“regular”, “hot”, “creamy”...)

**or**

**Ingredients:** (“chocolate”, “ginger”, “eggnog”...).

When user clicks on “search” after filling in ANY of the above options he is directed to a filtered result.

Eg. User search is “Caffe Latte or freshly brewed or hot, chocolate)

Result: All items that contain any of these parameters will be shown and the items are clickable.

The user can then click on any item and view its ingredients, price and location.

**Search by name:**



## Functionality #3

The third implementation is “Searching directly through the menu”.

*Offering Types*

- Starbucks Refreshers Beverages
- Kids' Drinks and Others
- Chocolate Beverages
- Fizzio Handcrafted Sodas
- Frappuccino Blended Beverages
- Chocolate Beverages
- Smoothies
- **Cold Drinks and Sodas.**

*Result*

*Offerings*

The screenshot shows a search results interface titled "Search Results — Found 5 item(s)". Below the title is a filter bar with a dropdown arrow and a selected filter "Cold Drinks and Sodas X". The results are listed in a table-like format with five items, each featuring a cup icon, a title, a description, a list of tags, and a rating.

Item	Description	Tags	Rating
Lemon Ale Fizzio	real lemon juice with a hint of apricot and ginger	Cold Drinks and Sodas, #cold, #iced, #ginger, #juice, #real lemon, #fizzio, #lemon Ale	18
Ginger Ale	not your average ginger ale	Cold Drinks and Sodas, #cold, #iced, #ginger, #fizzio, #juice, #ginger Ale	17
Orange Cream Starbucks	Tangy orange fresh and herbal	Cold Drinks and Sodas, #bubbly, #floral, #herbal, #vanilla, #orange, #tangy, #cold, #iced	12
Chocolate Smoothie	a nourishing blend of different flavors	Cold Drinks and Sodas, #sauce, #smoothie, #blend, #mocha, #cold, #iced	13
Strawberry Smoothie	Nourish your body and treat your tastebuds	Cold Drinks and Sodas, #cold, #iced, #blend, #smoothie	10

The “**offerings**” are also clickable and they take the user to the page of the actual item that shows its details, ingredients, tags and locations.

## Conclusion

We created a database that can be used for inventory management.

The different tables contain different sets of data and are inter-related in a way that not only helps optimize but also helps to maintain consistency in the database.

## References

- <https://nodejs.org/en/>
- <https://www.mysql.com/>
- <https://getbootstrap.com/>
- <https://expressjs.com/>

**Thank you!**

## ER Diagram of the StarBox model.

