PROJECT REPORT/ LITERATURE SURVEY REPORT

ON

FOOD RECIPE SEARCH ENGINE
(WEB BASED APPLICATION)

SUBMITTED TO

DEPARTMENT of COMPUTER SCIENCE ENGINEERING

UNDER THE GUIDANCE OF

Mr.Pradeepta Sarangi

Submitted By:

Vinay Sachdeva(1710991892)
Harmanjit Singh(1710991290)
Semester: 7th
Session: July-Dec 2020

CHITKARA UNIVERSITY
CHANDIGARH-PATIALA NATIONAL HIGHWAY, RAJPURA, DISTT. PATIALA
PUNJAB, INDIA

Contents

** **The important/relevant content from the previously submitted literature survey report can be added in this section.**

PUNJAB

CERTIFICATE

This is to certified that the project entitled “FOOD RECIPE SEARCH ENGINE” has been submitted for the Bachelor of Computer Science Engineering at Chitkara University, Punjab during the academic semester July 2020- December 2020 is a bonafide piece of project work carried out by “Harmanjit Singh 1710991290, Vinay Sachdeva 1710991892” towards the partial fulfilment for the award of the course LOP under the guidance of “Mr.Pradeepta Sarangi” and supervision.

Mr.Pradeepta Sarangi
(Professor at CSE)

CANDIDATE'S DECLARATION

We, **HARMANJIT SINGH 1710991290, VINAY 1710991892** from B.E.-2017 of the Chitkara University, Punjab hereby declare that the LOP Report entitled, **"Food Recipe Search Engine"** is an original work and data provided in the study is authentic to the best of our knowledge. This report has not been submitted to any other institute for the award of any another course.

Sign. of student 1

Harmanjit Singh
(1710991290)

Sign. of Student 2

Vinay Sachdeva
(1710991892)

ABSTRACT

We have developed “Afoodrecipezengine” a web based application which is all-in-one platform that helps users to select the ingredients he/she wants and view recipes that contain those professional ingredients like vegetables, snacks , non-vegetarian dishes , vegetarian dishes and many other food services which also serve directly at the door step. We used HTML for basic coding and CSS for designing our web pages. JavaScript is used to add functionality to our web pages. JQuery is a fast, small, and feature-rich JavaScript library makes things like HTML document traversal and manipulation, event handling, animation, and AJAX has been used to load data in the background that works across a multitude of browsers and display it on the web page, without reloading the whole page. Bootstrap, a web framework, is used to clarify the development of informative web pages. The primary purpose of adding it to a web project is to apply bootstrap’s choices of colour, size, font and layout to that project. We also designed various pages for the meals and cocktails and the user can search according to his own . We also used contact page so that any person who has some doubts regarding recipes or anything can contact us sharing their personal information like name, email and the subject in which they can write their personal query and submit it through the web page of our site. We also created a search box through which a user can search his/her own recipe which they are keen of. When we search for any food item, the recipe for the related (food item) is displayed on the screen. The youtube link of the same is provided below the recipe. We created a separate page for the beers section where user can enter any name of the brand and the specific brand will contain Tagline in which the name of the brand will be mentioned and the details will be specified within the description. For better understanding, we have created one section Brewers-Tips which will include the tips to prepare the dish better. In the user part can choose the service recipe he/she wants to. The recipe details page opens where user can read all the details about the recipe as said. The specified date is been given where the user can see on which day the food recipe is been searched on.

ACKNOWLEDGEMENT

It is our pleasure to be indebted to various people, who directly or indirectly contributed in the development of this work and who influenced my thinking, behaviour and acts during the course of study.

We express our sincere gratitude to all for providing me an opportunity to undergo LOP as the part of the curriculum.

We are thankful to “Mr.Pradeepta Sarangi” for his support, cooperation, and motivation provided to us during the training for constant inspiration, presence and blessings.

We also extend our sincere appreciation to ***“Mr.Pradeepta Sarangi”*** who provided his valuable suggestions and precious time in accomplishing our LOP report.

We also would like to thank the almighty and parents for their moral support and friends with whom we shared our experience and received many suggestions that improve the quality of work

Last but not the least, I would like to thank all those who had helped directly or indirectly towards the completion of this project.

Harmanjit Singh
(1710991290)

Vinay Sachdeva
(1710991892)

EXECUTIVE SUMMARY

Food Recipes is the service which is spread all over the worldwide. We have developed an online platform that lists & books various meals and drinks with better and easy ordering experience. The aim is to provide recipe which is fully based on the ingredients available to them

At Food Recipe Search Engine, we introduce you a platform that not only helps you search for different meals and drinks but also saves your time and money by saying a “BIG” discounts to various items.

The target mainly covers the segment for the people of the society those who want to spend less and get a quality food. Any age group of the people can order their meals from anywhere through an online platform.

We are also looking for funding to expand our recipes and provide the consumers the best recipes that they are willing to take.

The objectives of the same includes- To help the user decide a recipe to cook from the ingredients available with him/her and To guide the user to the recipe based on the user’s choices and needs.

It also includes saving the user money and time by referencing cook books and buying ingredients he/she does not need.

Project Proposal

Project Title: Food Recipe search engine

Introduction: The advancement in technology has made our lives easy like never before. Everything that we require is available at our fingertips. With a few taps on our smartphones, we can complete tasks in minimal time. From entertainment to learning and from fitness to cooking, there are various applications for everything that we need. With just a click of a button, you can get access to multiple recipes within a second. Each recipe provides you with all the information, from the ingredients required to each step required to cook the different parts of the dish. These applications are generally used by people who want to try to make some new dish, or by people who live all by themselves, or by working people who are always short on time. Even though there has been such a huge advancement in technology, all these applications provide you with the ingredients required, and you must go and buy the ingredients that are not available to you currently.

The solution we came to is an Web Application that will provide you recipes based on the ingredients that you already have with you, resulting in less wastage of time and money in buying the unavailable ingredients. The application contains an available database of food recipes that can be browsed through by the user. Most importantly the user can choose to only see those recipes with a specific set of ingredients available to it. The user also has the option to filter, sort and favourite those recipes based on its preference. Moreover, the application also allows the user to add new recipes and ingredients to the application.

Goals

The main aim of the application is to provide recipes to the consumers based on the ingredients already available with them, unlike other recipe providing applications where the ingredients available with the consumer is not taken into consideration. The objectives of our project are as follows:

- To help the user decide a recipe to cook from the ingredients available with him/her.
- To guide the user to the recipe based on the user's choices and needs.
- To help save the user money and time by tediously referencing cook books and buying ingredients he/she does not need.

Project Category: The project comes - web development strategies.

Keywords: Food, Recipe, Ingredients

Knowledge Areas Needed for Project: Computer Science Engineering

PROBLEM STATEMENT

We all have those times when we don't know what we could make for ourselves to eat from what we have available with us. Even if we do we , may not know about a new recipe that can be made from the same ingredients or an old recipe that can be made in a different way. Today there are innumerable applications that provide consumers with recipes ranging from quick to healthy and from beginner to expert; all intending to save time. But, none of these applications take into account whether he recipes ingredients are available with the consumer at the point of time or not. They fail to provide recipes containing only the ingredients that are available, thus proving to be inefficient and wasting time rather than saving it. These contemporary applications also do not evaluate and learn from the user's choices thus further increasing the user's task of repeating already fed information again. We plan on using a content-based recommendation system that will learn from user's inputs and provide the user with refined recommended recipes which suit the user's needs.

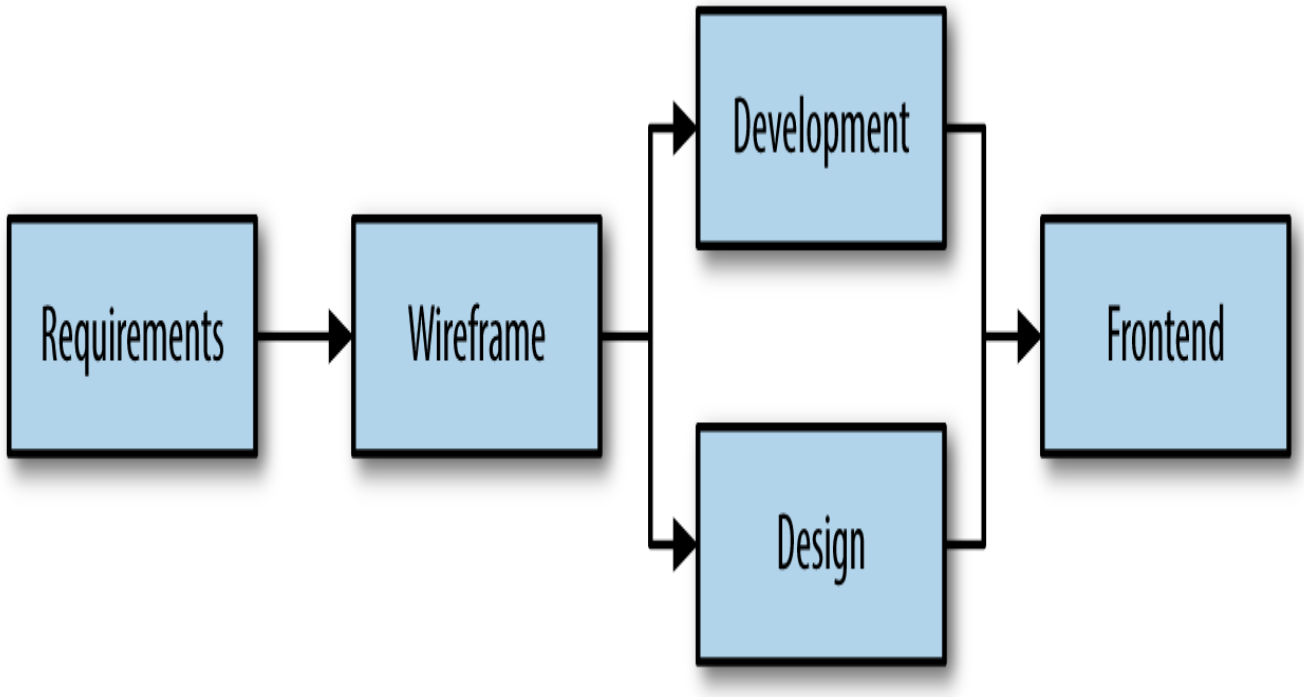
APPLICATION MODULE

The application has three major functionalities in this application. They are browsing recipes based on search term or alphabetically. Search a cocktail based on search term or alphabetically and searching a beer based on search term or alphabetically. This also shows a random meal, cocktail and beer on there respective pages. My project aims to combine the features like search based on ingredients, suggestions for similar recipes, and images for the ingredients under one search engine and provide an intuitive interface for the same. I explored different clustering algorithms to find an efficient algorithm that can be used to cluster recipe data matching user's queries. As part of this project, I also built custom search engine wrappers around existing search engines to help users search images of ingredients.
Search engines have made access to information easy. One only needs to get connected to the internet to get the information one needs. When searching for cooking recipes, sometimes user may prefer to search based on ingredients. It will be more helpful if the search also suggests similar recipes. The user sometimes may not know what an ingredient is just from its name. So images of the ingredients displayed beside the written name of the ingredient will be helpful to the user.
In this project, I am working on a recipe suggestion tool, which suggests similar recipes. Users can also search based on ingredients. I am also providing the facility for the user to view the images of the ingredients.

The goal of this project is to suggest recipes to the user. For this, a database of recipes needs to be maintained. A web search engine can be used to retrieve the required information from the web. The study of a search engine would be helpful in understanding how it works and how the data can be retrieved and maintained in the database.

SOFTWARE AND HARDWARE

REQUIREMENT SPECIFICATION



Methods-

1.1 HTML

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language.HTML is the combination of Hypertext and Markup Language. Hypertext defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages.

HTML VERSION	YEAR
HTML 1.0	1991
HTML 2.0	1995
HTML 3.2	1997
HTML 4.0	1999
HTML 5(LATEST)	2014

1.2 CSS

Cascading Style Sheet (CSS) is used to set this style in web pages which contain HTML elements. It sets the background color, font-size, font-family, color, etc property of elements in the web pages.

There are three types of CSS which are given:

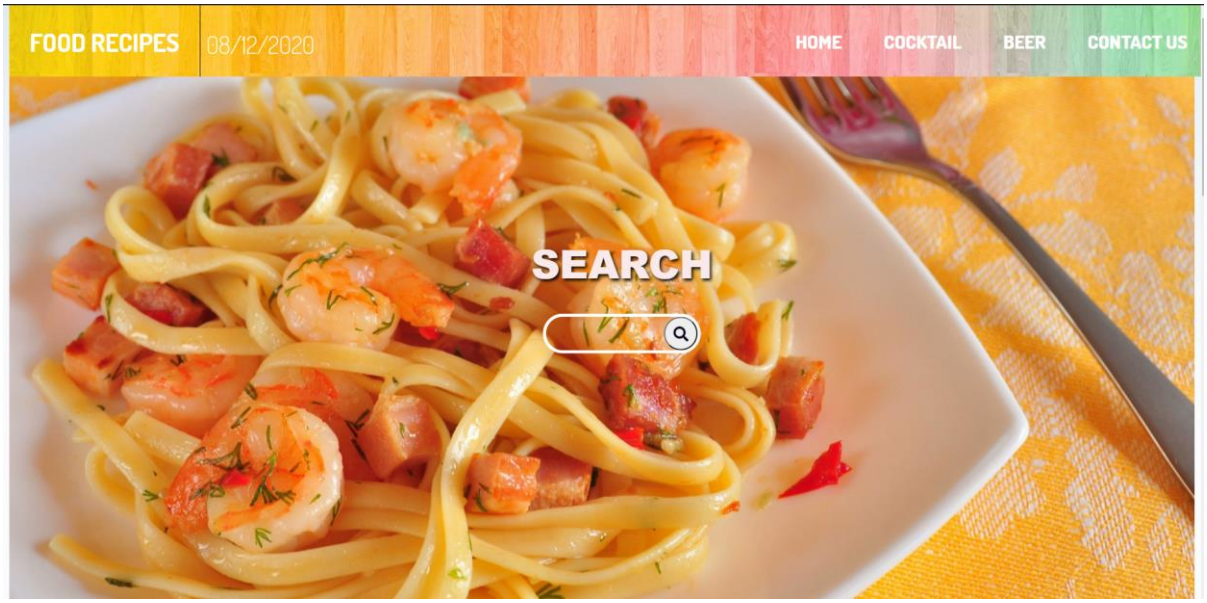
- Inline CSS
- Internal or Embedded CSS
- External CSS

1.2 Javascript

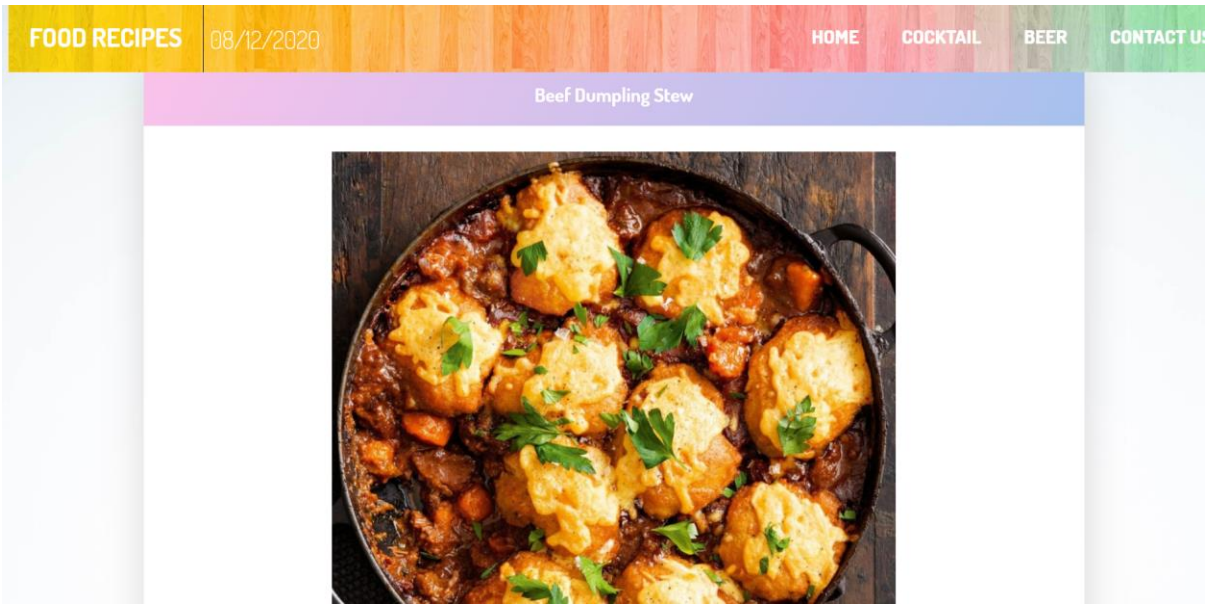
Javascript is a very powerful **client-side scripting language(CST)** . Javascript is used mainly for enhancing the interaction of a user with the webpage. In other words, you can make your webpage more lively and interactive, with the help of Javascript. Javascript is being used widely in game development and Mobile application development.

Home Page (Meals Section)

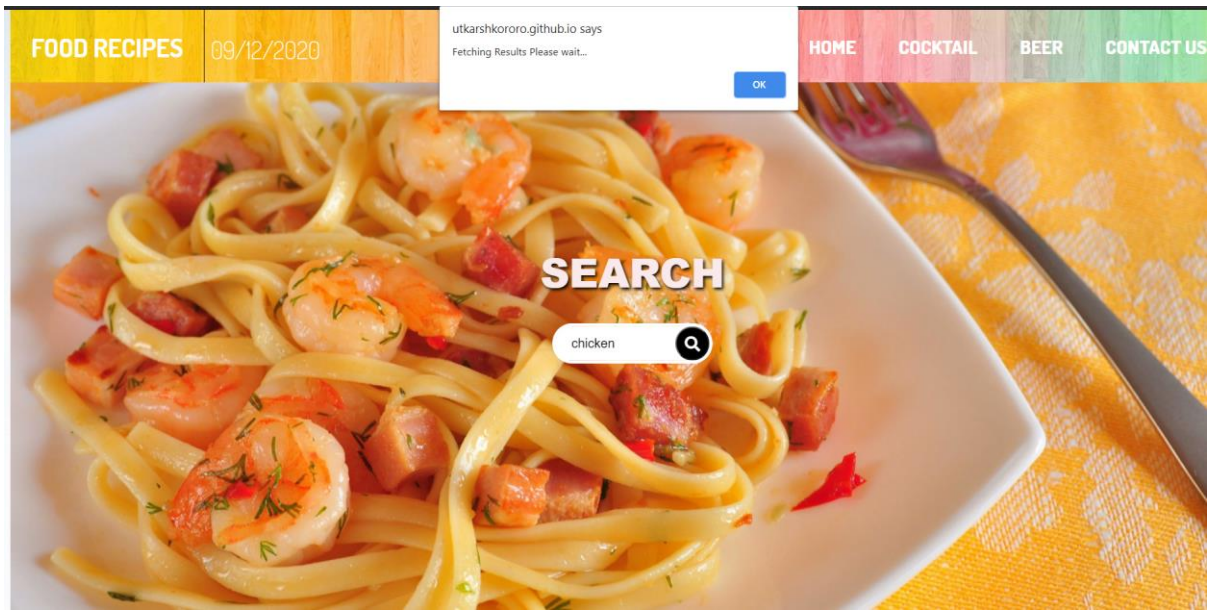
Displays a search bar which can be used to search for desired recipes based on search term entered by user.

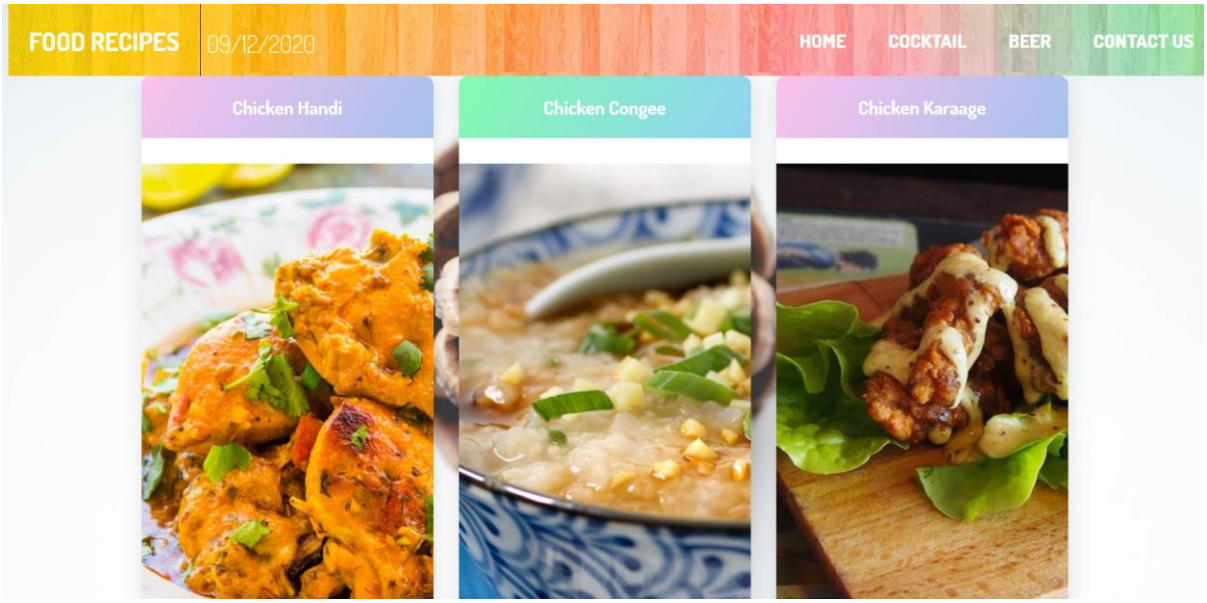


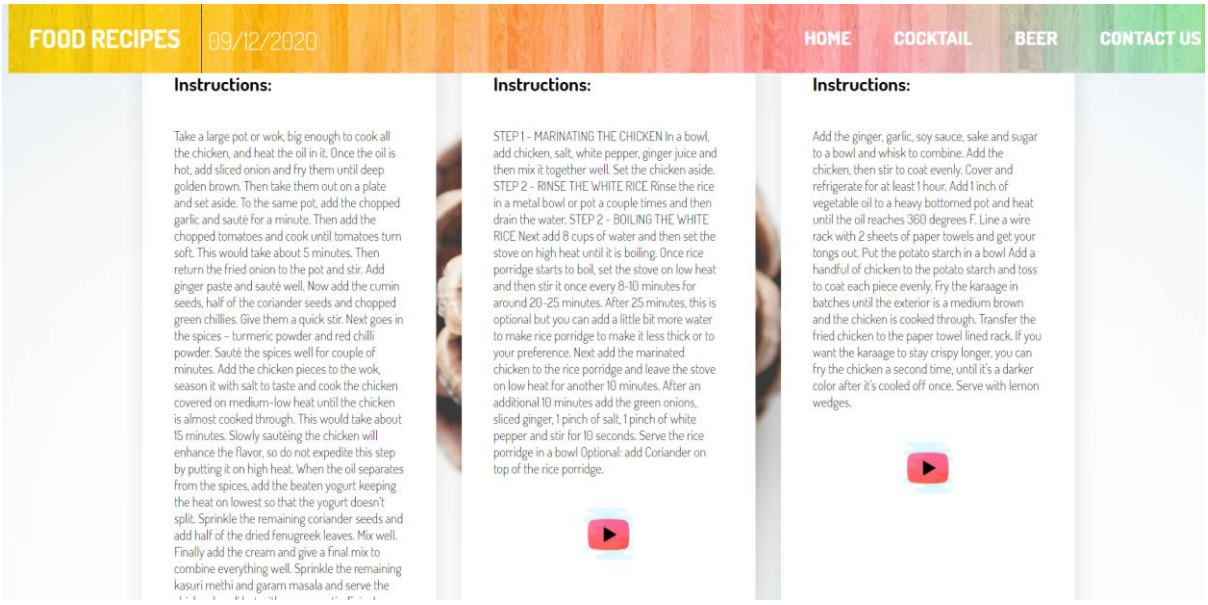
Below there is also a section where a random meal is displayed.

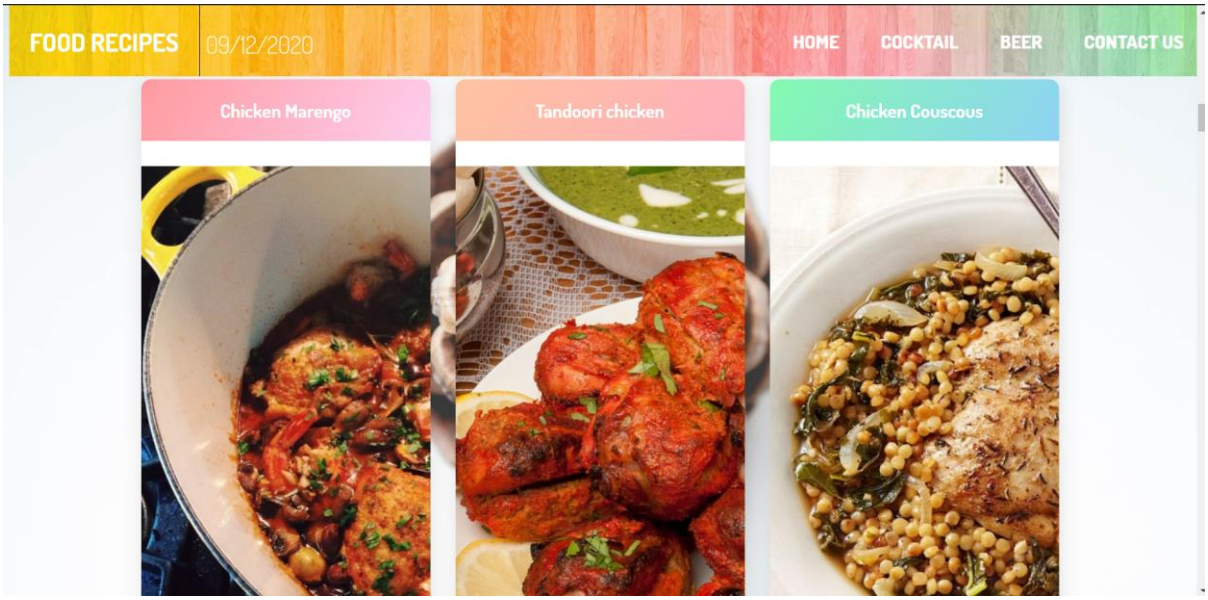


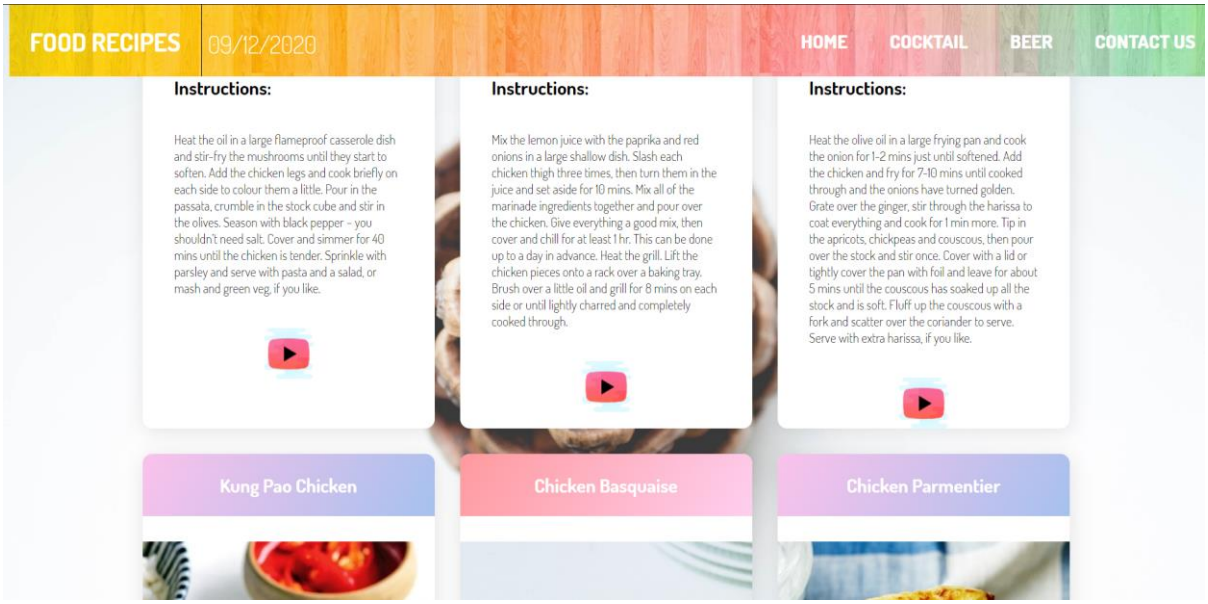
Search based on search term entered by user either an alphabet, recipe name or ingredient name.

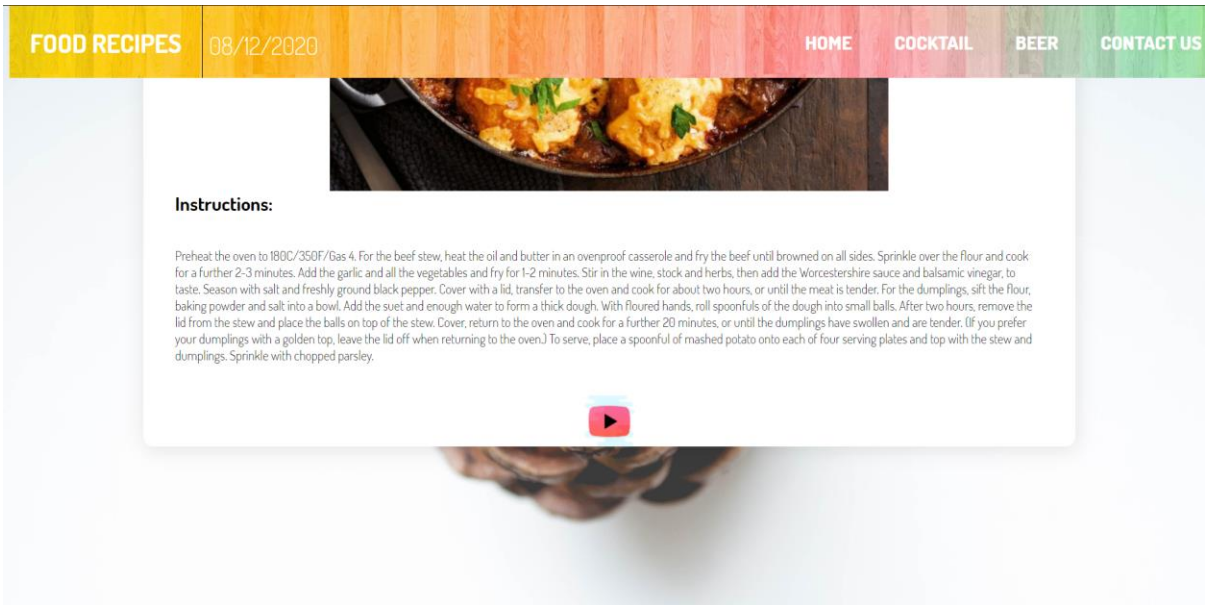





FOOD RECIPES
09/12/2020
HOME
COCKTAIL
BEER
CONTACT US
Instructions:
Take a large pot or wok, big enough to cook all the chicken, and heat the oil in it. Once the oil is hot, add sliced onion and fry them until deep golden brown. Then take them out on a plate and set aside. To the same pot, add the chopped garlic and sauté for a minute. Then add the chopped tomatoes and cook until tomatoes turn soft. This would take about 5 minutes. Then return the fried onion to the pot and stir. Add ginger paste and sauté well. Now add the cumin seeds, half of the coriander seeds and chopped green chillies. Give them a quick stir. Next goes in the spices – turmeric powder and red chilli powder. Sauté the spices well for couple of minutes. Add the chicken pieces to the wok, season it with salt to taste and cook the chicken covered on medium-low heat until the chicken is almost cooked through. This would take about 15 minutes. Slowly sautéing the chicken will enhance the flavor, so do not expedite this step by putting it on high heat. When the oil separates from the spices, add the beaten yogurt keeping the heat on lowest so that the yogurt doesn't split. Sprinkle the remaining coriander seeds and add half of the dried fenugreek leaves. Mix well. Finally add the cream and give a final mix to combine everything well. Sprinkle the remaining kasuri methi and garam masala and serve the
Instructions:
STEP 1 - MARINATING THE CHICKEN In a bowl, add chicken, salt, white pepper, ginger juice and then mix it together well. Set the chicken aside. STEP 2 - RINSE THE WHITE RICE Rinse the rice in a metal bowl or pot a couple times and then drain the water. STEP 2 - BOILING THE WHITE RICE Next add 8 cups of water and then set the stove on high heat until it is boiling. Once rice porridge starts to boil, set the stove on low heat and then stir it once every 8-10 minutes for around 20-25 minutes. After 25 minutes, this is optional but you can add a little bit more water to make rice porridge to make it less thick or to your preference. Next add the marinated chicken to the rice porridge and leave the stove on low heat for another 10 minutes. After an additional 10 minutes add the green onions, sliced ginger, 1 pinch of salt, 1 pinch of white pepper and stir for 10 seconds. Serve the rice porridge in a bowl Optional: add Coriander on top of the rice porridge.
Instructions:
Add the ginger, garlic, soy sauce, sake and sugar to a bowl and whisk to combine. Add the chicken, then stir to coat evenly. Cover and refrigerate for at least 1 hour. Add 1 inch of vegetable oil to a heavy bottomed pot and heat until the oil reaches 360 degrees F. Line a wire rack with 2 sheets of paper towels and get your tongs out. Put the potato starch in a bowl Add a handful of chicken to the potato starch and toss to coat each piece evenly. Fry the karaage in batches until the exterior is a medium brown and the chicken is cooked through. Transfer the fried chicken to the paper towel lined rack. If you want the karaage to stay crispy longer, you can fry the chicken a second time, until it's a darker color after it's cooled off once. Serve with lemon wedges.


FOOD RECIPES
09/12/2020
HOME
COCKTAIL
BEER
CONTACT US
Chicken Marengo
Tandoori chicken
Chicken Couscous


FOOD RECIPES
09/12/2020
HOME
COCKTAIL
BEER
CONTACT US
Instructions:
Heat the oil in a large flameproof casserole dish and stir-fry the mushrooms until they start to soften. Add the chicken legs and cook briefly on each side to colour them a little. Pour in the passata, crumble in the stock cube and stir in the olives. Season with black pepper – you shouldn't need salt. Cover and simmer for 40 mins until the chicken is tender. Sprinkle with parsley and serve with pasta and a salad, or mash and green veg, if you like.
Instructions:
Mix the lemon juice with the paprika and red onions in a large shallow dish. Slash each chicken thigh three times, then turn them in the juice and set aside for 10 mins. Mix all of the marinade ingredients together and pour over the chicken. Give everything a good mix, then cover and chill for at least 1 hr. This can be done up to a day in advance. Heat the grill. Lift the chicken pieces onto a rack over a baking tray. Brush over a little oil and grill for 8 mins on each side or until lightly charred and completely cooked through.
Instructions:
Heat the olive oil in a large frying pan and cook the onion for 1-2 mins just until softened. Add the chicken and fry for 7-10 mins until cooked through and the onions have turned golden. Grate over the ginger, stir through the harissa to coat everything and cook for 1 min more. Tip in the apricots, chickpeas and couscous, then pour over the stock and stir once. Cover with a lid or tightly cover the pan with foil and leave for about 5 mins until the couscous has soaked up all the stock and is soft. Fluff up the couscous with a fork and scatter over the coriander to serve. Serve with extra harissa, if you like.
Kung Pao Chicken
Chicken Basquaise
Chicken Parmentier


FOOD RECIPES
08/12/2020
HOME
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CONTACT US
Instructions:
Preheat the oven to 180C/350F/Gas 4. For the beef stew, heat the oil and butter in an ovenproof casserole and fry the beef until browned on all sides. Sprinkle over the flour and cook for a further 2-3 minutes. Add the garlic and all the vegetables and fry for 1-2 minutes. Stir in the wine, stock and herbs, then add the Worcestershire sauce and balsamic vinegar, to taste. Season with salt and freshly ground black pepper. Cover with a lid, transfer to the oven and cook for about two hours, or until the meat is tender. For the dumplings, sift the flour, baking powder and salt into a bowl. Add the suet and enough water to form a thick dough. With floured hands, roll spoonfuls of the dough into small balls. After two hours, remove the lid from the stew and place the balls on top of the stew. Cover, return to the oven and cook for a further 20 minutes, or until the dumplings have swollen and are tender. (If you prefer your dumplings with a golden top, leave the lid off when returning to the oven.) To serve, place a spoonful of mashed potato onto each of four serving plates and top with the stew and dumplings. Sprinkle with chopped parsley.

Footer

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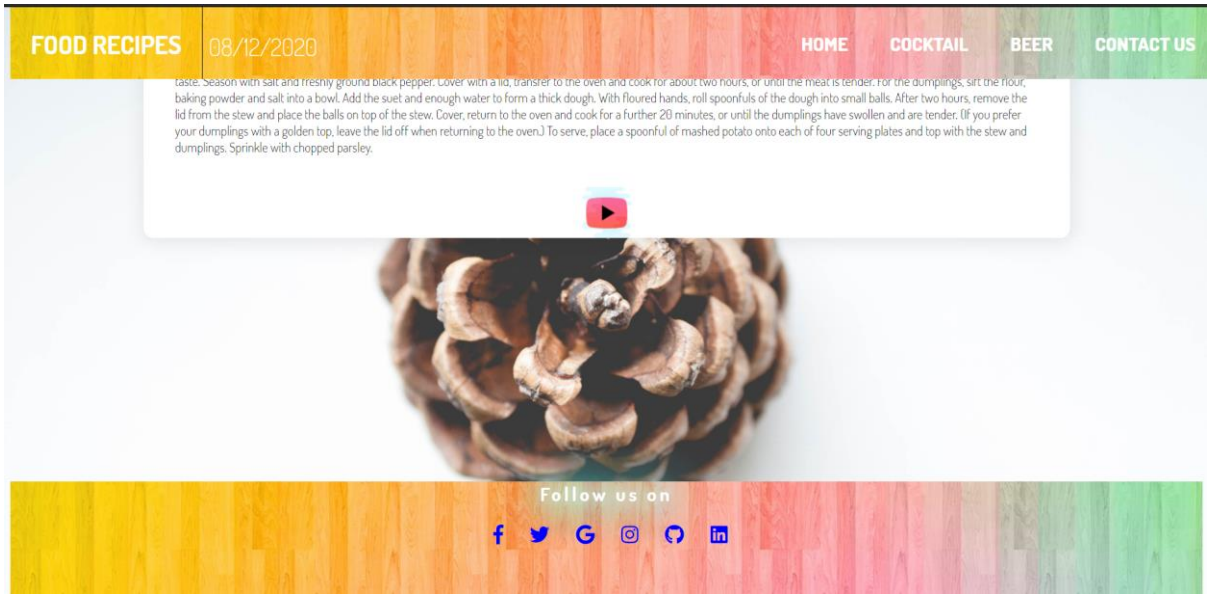
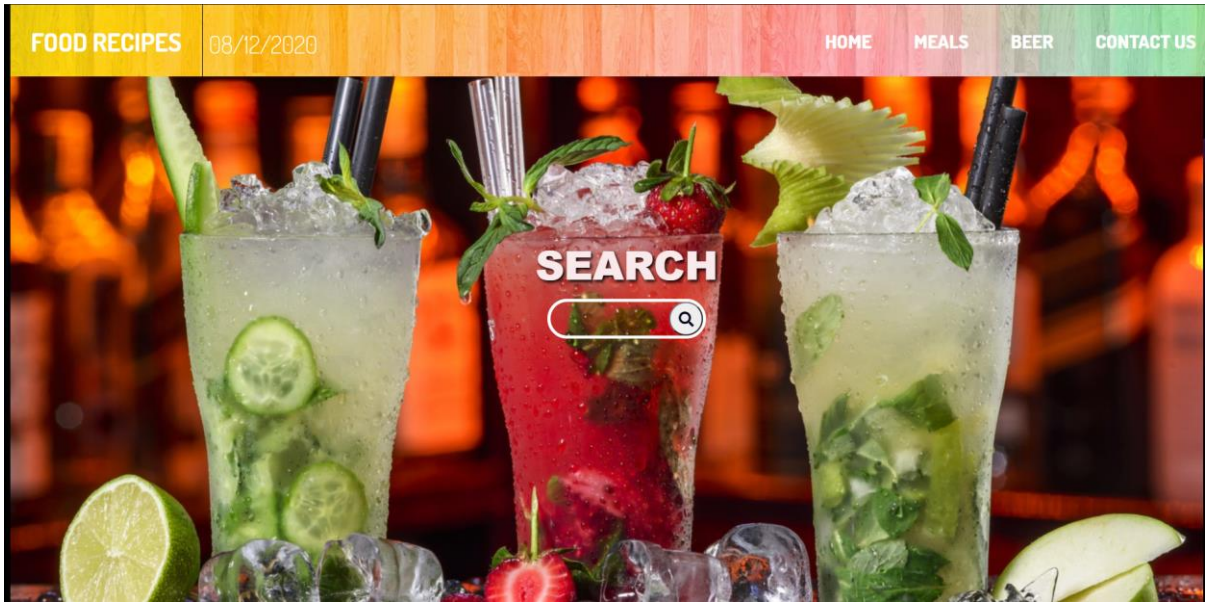


Cocktails Section

Displays a search bar which can be used to search for desired cocktails based on search term entered by user.



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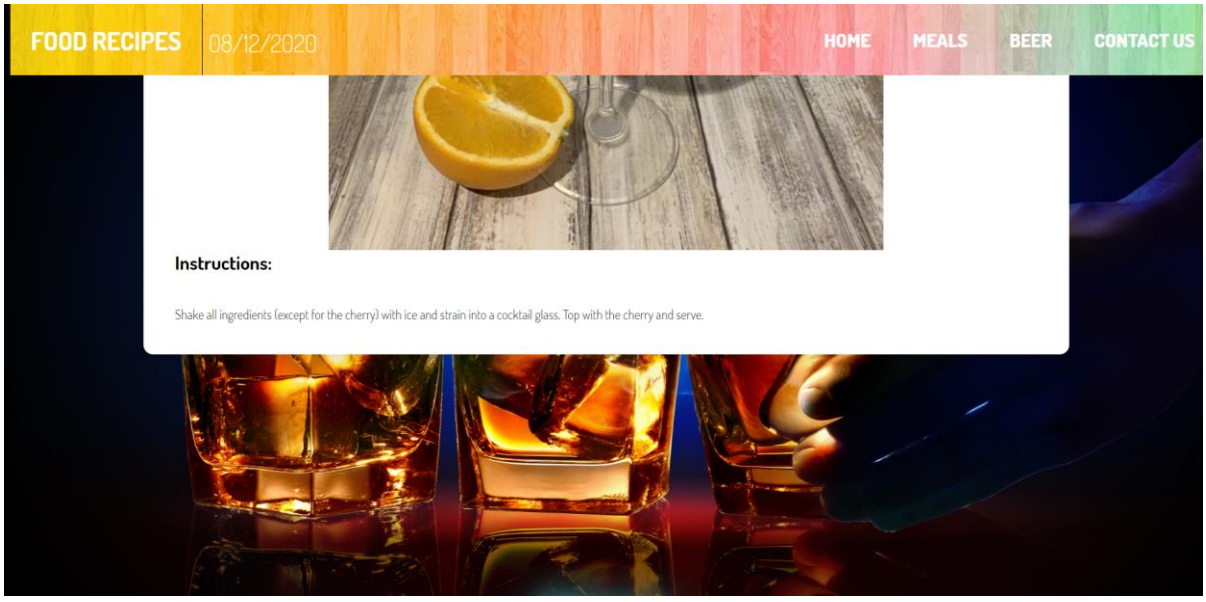
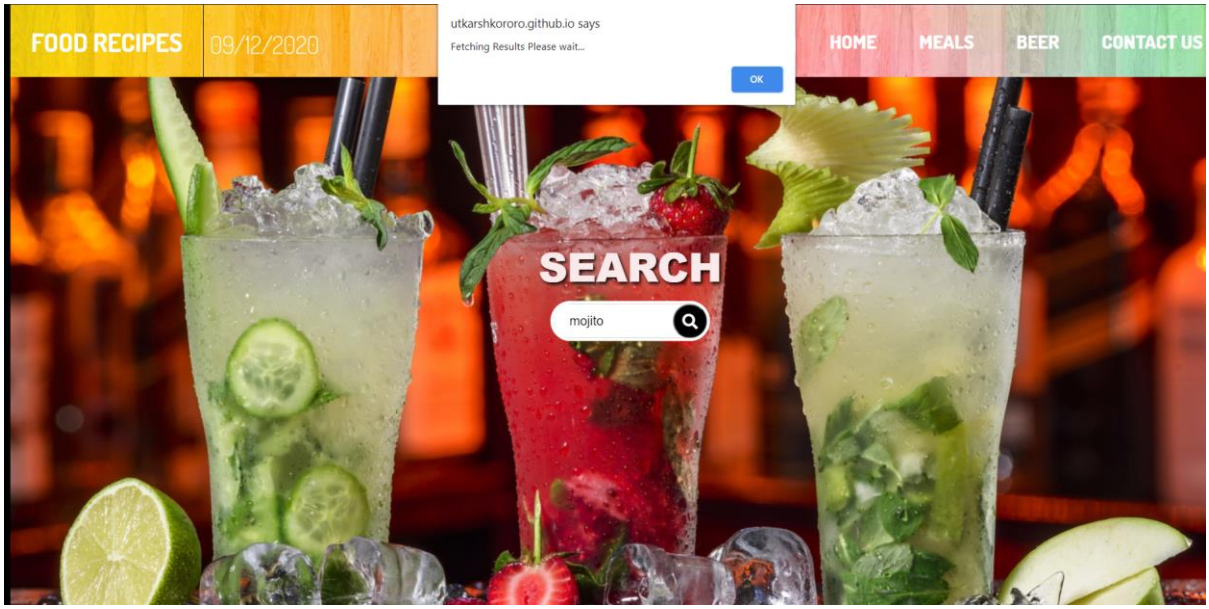


Search based on search term entered by user either an alphabet, cocktail name or ingredient name.


FOOD RECIPES
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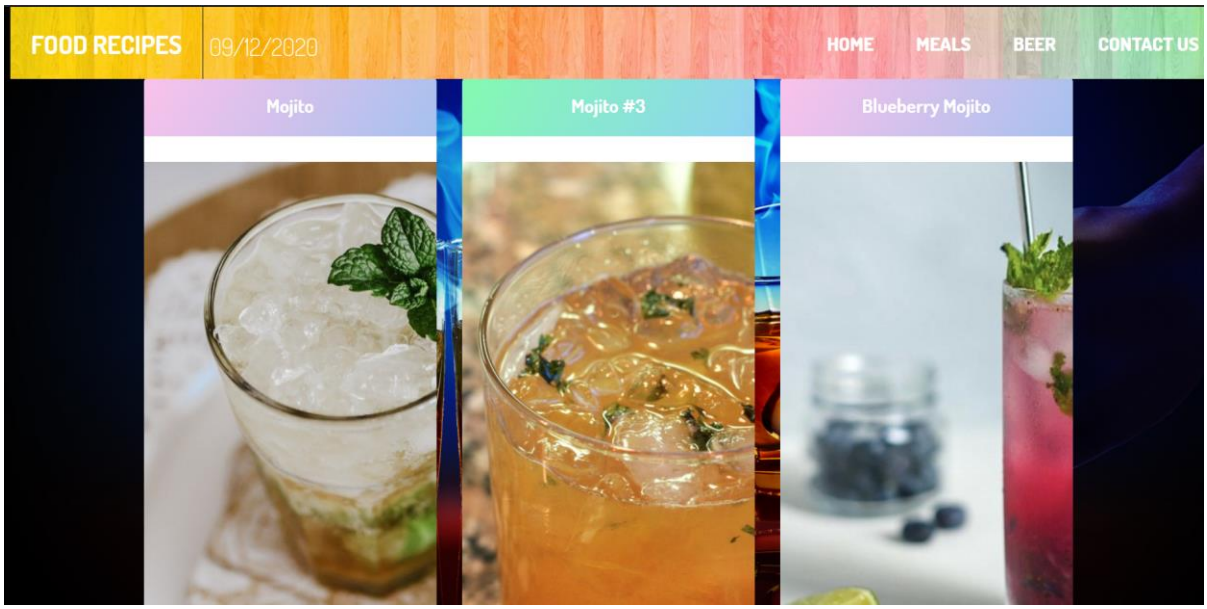
FOOD RECIPES
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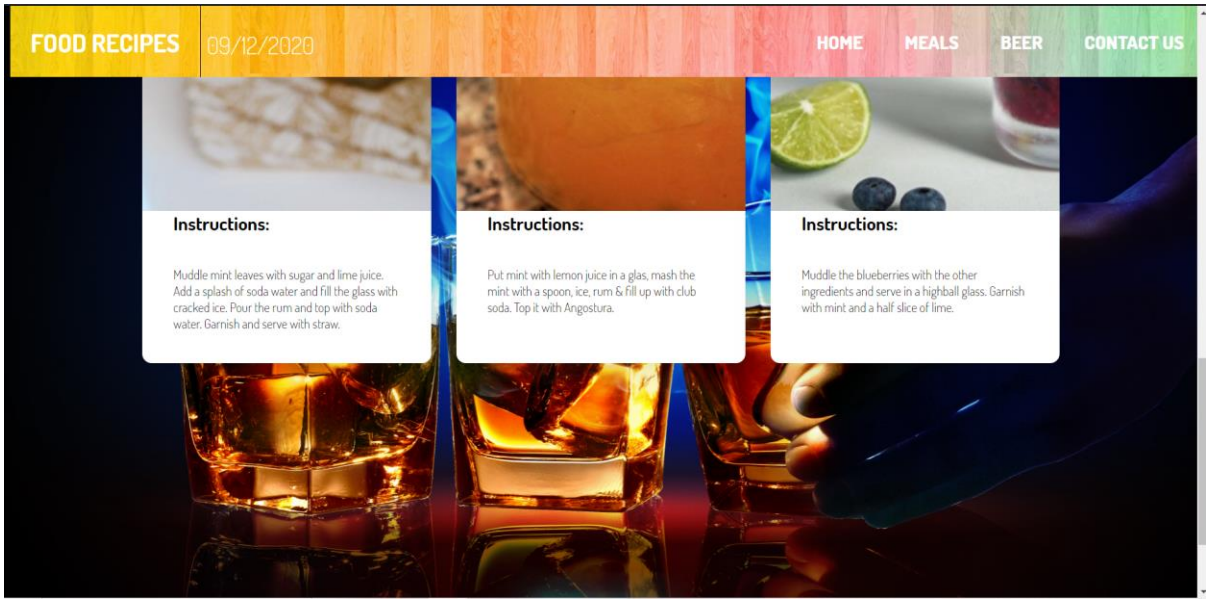
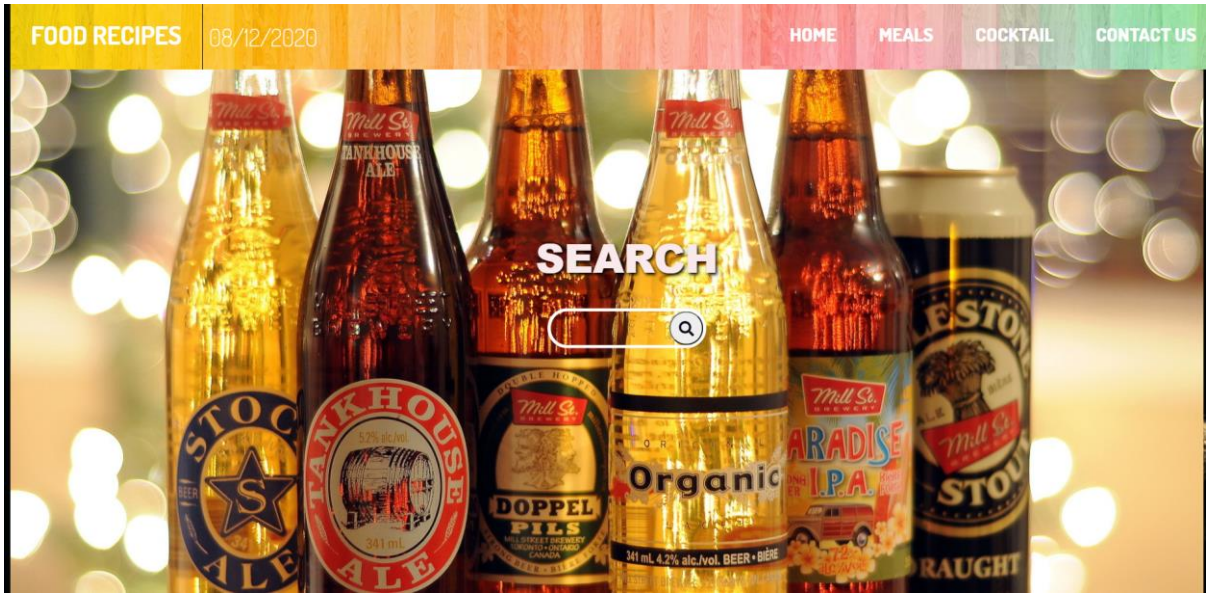
Mojito
Mojito #3
Blueberry Mojito



Beer Section

Displays a search bar which can be used to search for desired beers based on search term entered by user.



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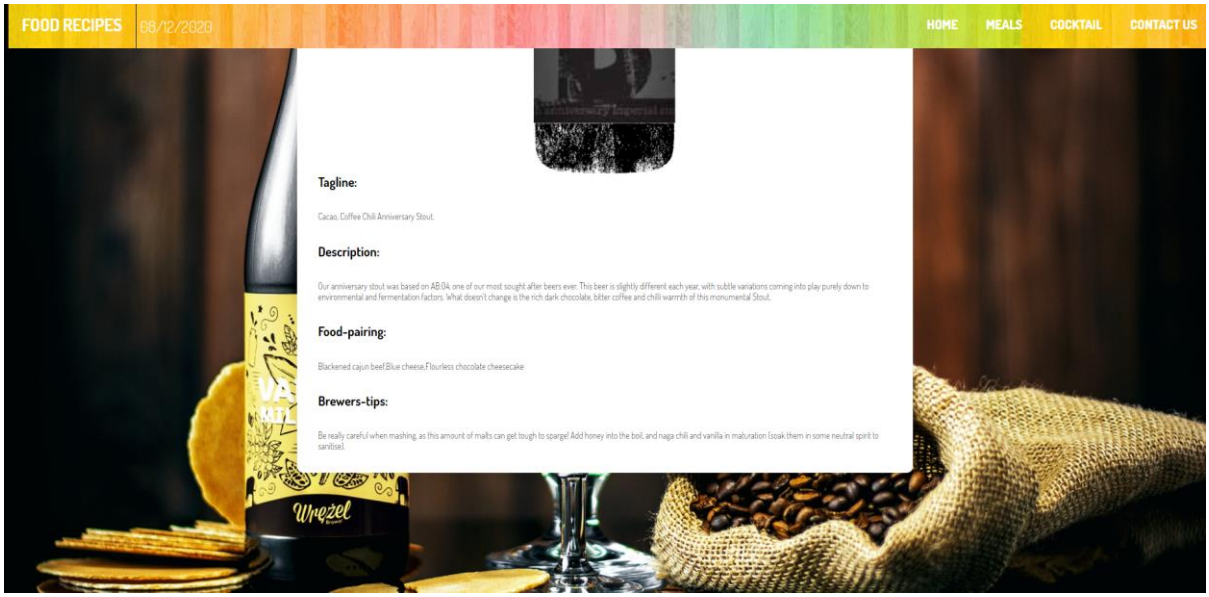
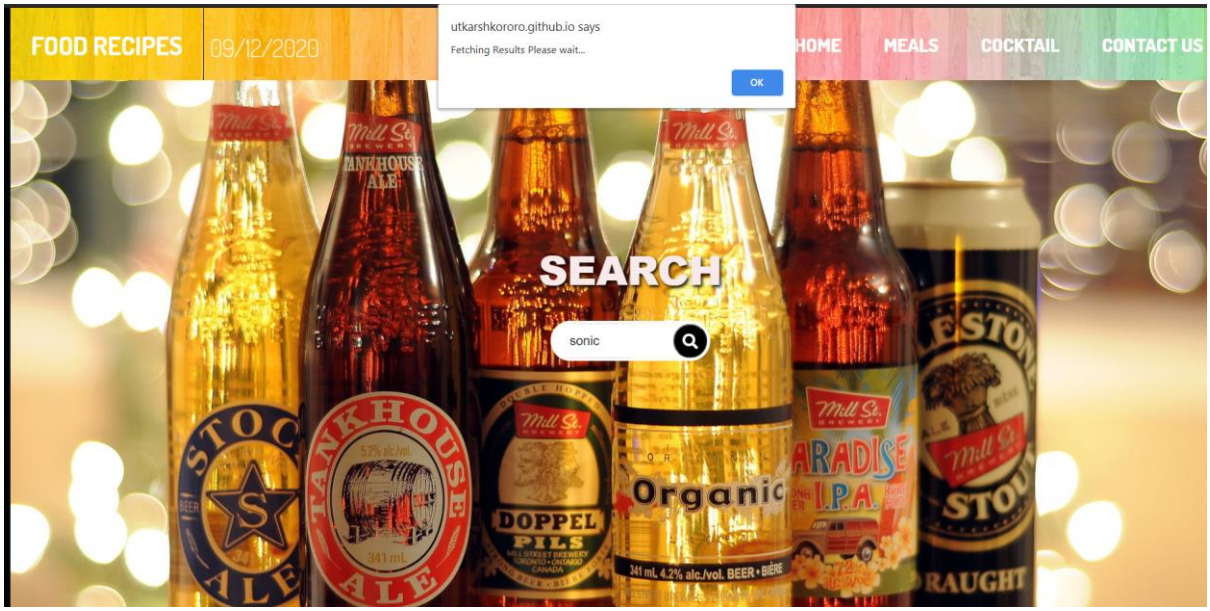


Search based on search term entered by user either an beer id or beer name.


FOOD RECIPES
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Fetching Results Please wait...
OK
HOME
MEALS
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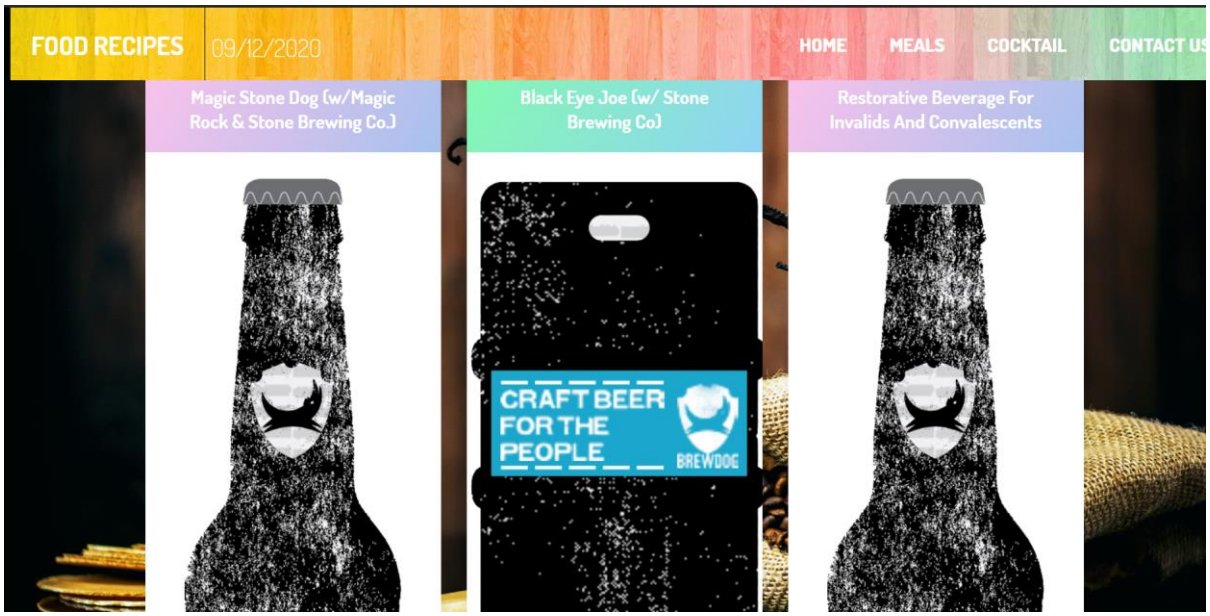
CONTACT US
SEARCH
sonic
DOPPEL PILS
Organic
341 mL 4.2% alc./vol. BEER • BIÈRE


FOOD RECIPES
09/12/2020
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MEALS
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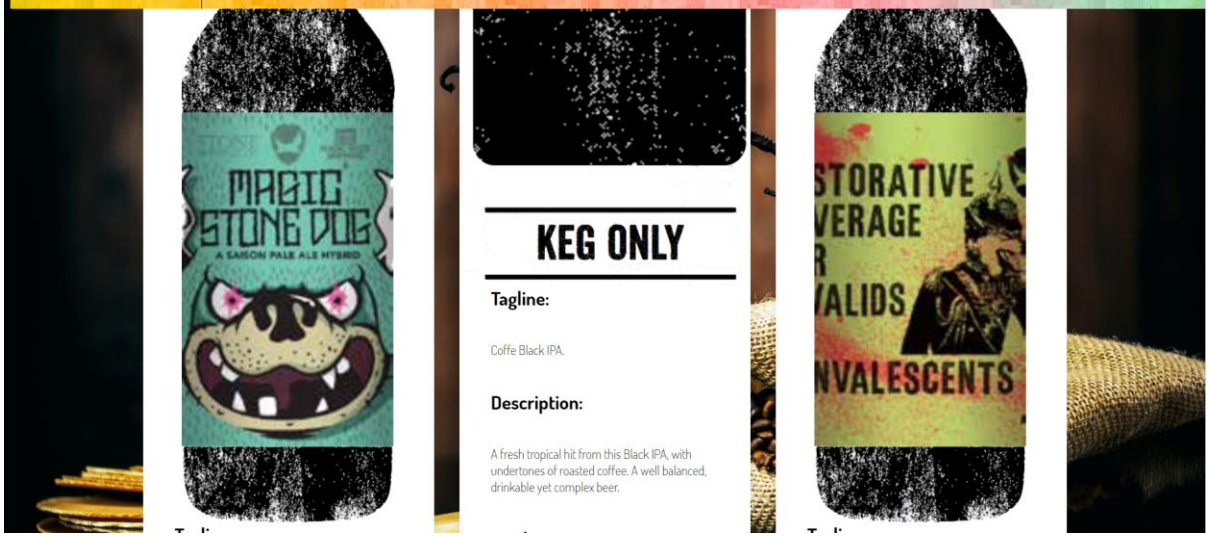
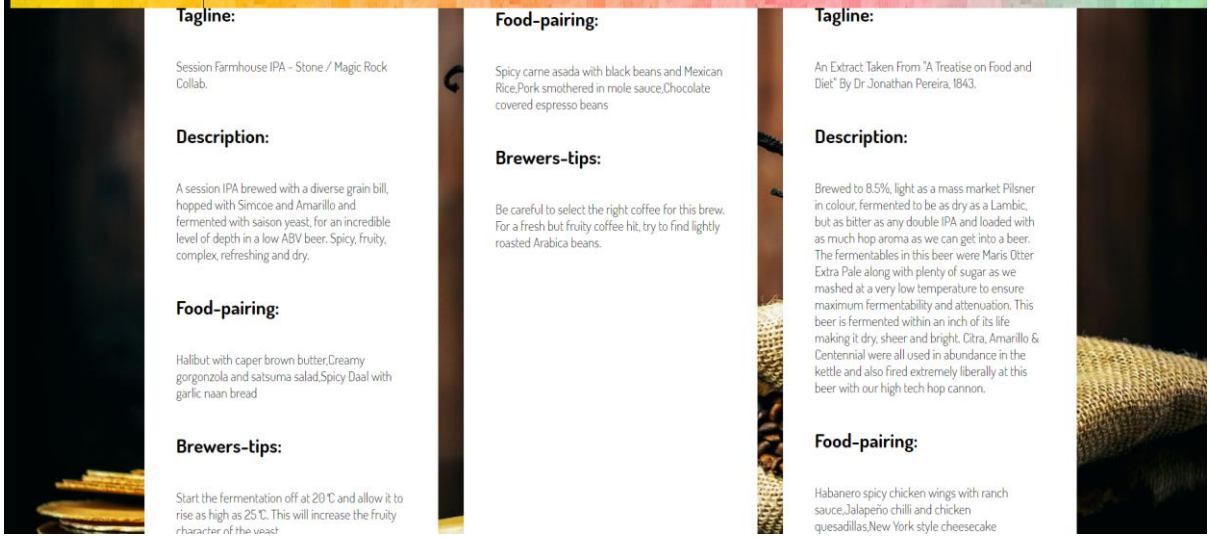
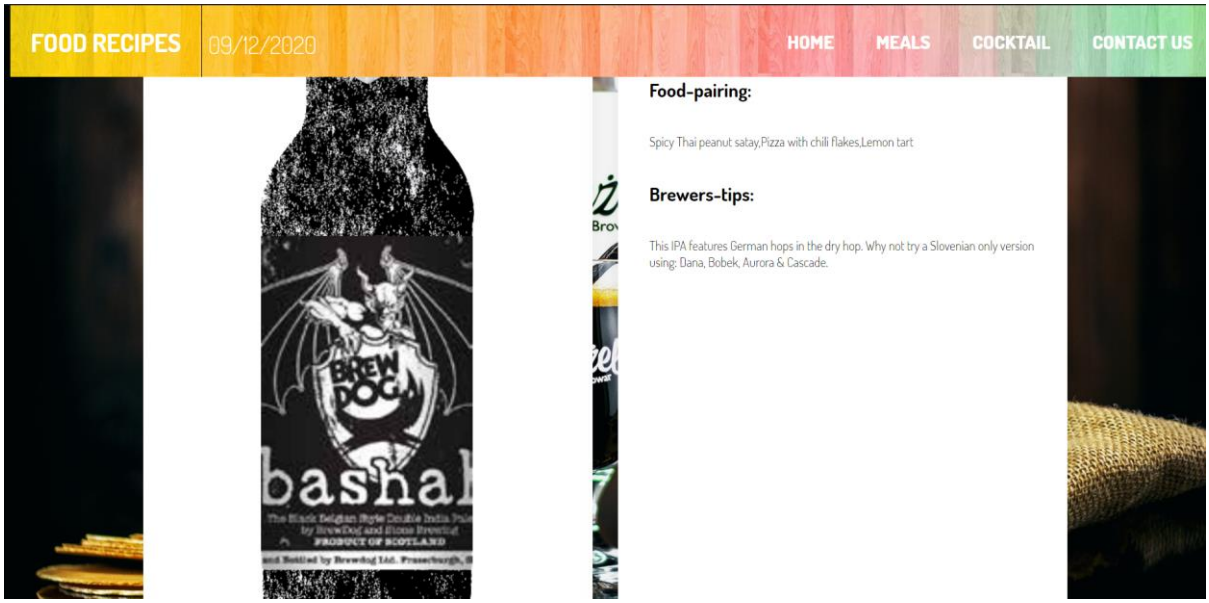
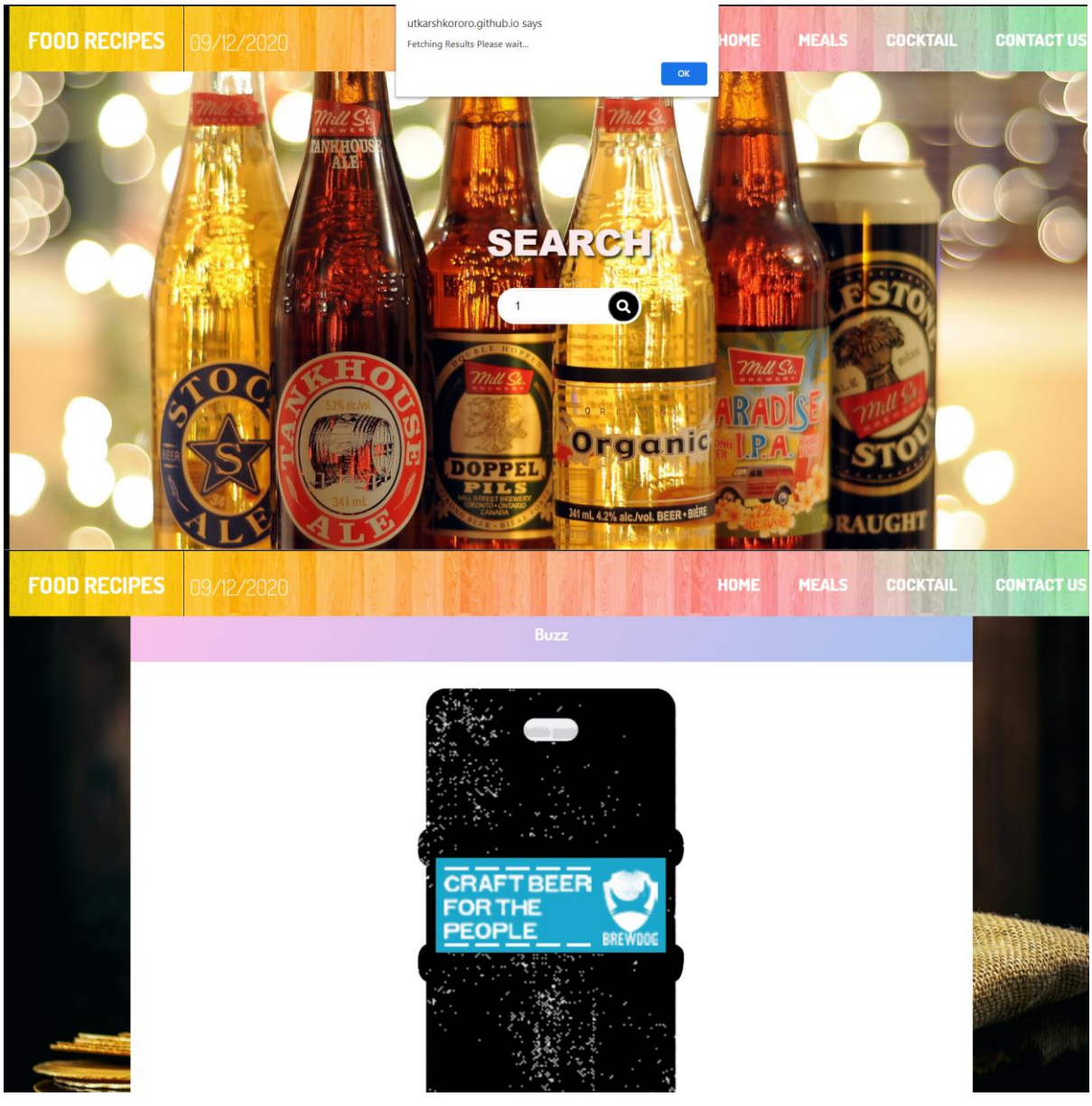
CONTACT US
Magic Stone Dog (w/Magic Rock & Stone Brewing Co.)
Black Eye Joe (w/ Stone Brewing Co)
Restorative Beverage For Invalids And Convalescents
CRAFT BEER FOR THE PEOPLE
BREWDOG


MAGIC
STONE DOG
A SAISON PALE ALE HYBRID
KEG ONLY
Tagline:
Coffe Black IPA.
Description:
A fresh tropical hit from this Black IPA, with undertones of roasted coffee. A well balanced, drinkable yet complex beer.
STORATIVE
VERAGE
R
VALIDS
NVALESCENTS


Tagline:
Session Farmhouse IPA - Stone / Magic Rock Collab.
Description:
A session IPA brewed with a diverse grain bill, hopped with Simcoe and Amarillo and fermented with saison yeast, for an incredible level of depth in a low ABV beer. Spicy, fruity, complex, refreshing and dry.
Food-pairing:
Halibut with caper brown butter,Creamy gorgonzola and satsuma salad,Spicy Daal with garlic naan bread
Brewers-tips:
Start the fermentation off at 20 ℃ and allow it to rise as high as 25 ℃. This will increase the fruity
Food-pairing:
Spicy carne asada with black beans and Mexican Rice,Pork smothered in mole sauce,Chocolate covered espresso beans
Brewers-tips:
Be careful to select the right coffee for this brew. For a fresh but fruity coffee hit, try to find lightly roasted Arabica beans.
Tagline:
An Extract Taken From "A Treatise on Food and Diet" By Dr Jonathan Pereira, 1843.
Description:
Brewed to 8.5%, light as a mass market Pilsner in colour, fermented to be as dry as a Lambic, but as bitter as any double IPA and loaded with as much hop aroma as we can get into a beer. The fermentables in this beer were Maris Otter Extra Pale along with plenty of sugar as we mashed at a very low temperature to ensure maximum fermentability and attenuation. This beer is fermented within an inch of its life making it dry, sheer and bright. Citra, Amarillo & Centennial were all used in abundance in the kettle and also fired extremely liberally at this beer with our high tech hop cannon.
Food-pairing:
Habanero spicy chicken wings with ranch sauce,Jalapeño chilli and chicken quesadillas,New York style cheesecake


FOOD RECIPES
09/12/2020
HOME
MEALS
COCKTAIL
CONTACT US
BREW DOG
bashal
PRODUCT OF SCOTLAND
Food-pairing:
Spicy Thai peanut satay,Pizza with chili flakes,Lemon tart
Brewers-tips:
This IPA features German hops in the dry hop. Why not try a Slovenian only version using: Dana, Bobek, Aurora & Cascade.


FOOD RECIPES
09/12/2020
utkarshkororo.github.io says
Fetching Results Please wait...
OK
HOME
MEALS
COCKTAIL
CONTACT US
SEARCH
1
STOC
ALE
TANKHOUSE
ALE
DOPPEL
PILS
Organic
341 mL 4.2% alc./vol. BEER • BIÈRE
FOOD RECIPES
09/12/2020
HOME
MEALS
COCKTAIL
CONTACT US
Buzz
CRAFT BEER
FOR THE
PEOPLE
BREWDOG

CONTACT US

Displays a checkbox containing Name, Email ID and subject Details along with the submit button.

```
<!DOCTYPE html>
<html>
<head>
         <link rel="icon" href="hamburger.png">

        <title>FoodRecipes App</title>
        <link rel="stylesheet" type="text/css" href="mystyle4.css">
        <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.3.1/css/all.css">
        <link href='https://fonts.googleapis.com/css?family=Croissant One' rel='stylesheet'>


</head>
<body>
<div class="bg-img">
        <div class="header">
  <div class="logo">FOOD RECIPES</div>
  <p id="demo"></p>
  <div class="menu">
    <a href="index.html" class="link ">Meals</a>
        <a href="cocktail.html" class="link ">cocktail</a>
    <a href="beer.html" class="link ">Beer</a>
    <a href="contactus.html" class="link ">Contact Us</a>
  </div>
</div>

<div id='form'>
  <div class="container2">
  <form autocomplete="off">
    <p id='para4'> Name<input type="text"  name="firstname" placeholder="Your name.."><br>
      E-mail<input type="text"  name="lastname" placeholder="Your last name.."><br>
Subject  <textarea name="subject" placeholder="Write something.." style="height:120px"></textarea></p>
```

```
Subject  <textarea name="subject" placeholder="Write something.." style="height:120px"></textarea></p>
    <input type="submit" value="Submit" class='block'>
  </form>
</div>
</div>

<div class = 'container3'>
  <h1 id="coh1" style="color:white;text-align: center;">Get In Touch!</h1>
  <iframe src="https://www.google.com/maps/embed/v1/place?key=AIzaSyA0s1a7phLN0iaD6-UE7m4qP-z21pH0eSc&q=Chandigarh-Patiala,National Highway (NH- 64), Village, Jansla, Rajpura,
  <table>
    <tr>
      <td>
        <div id='info'>
        <a href="https://utkarshdd.github.io/resume/"><img src="resume.png"></a><br><p style="font-size:22px">Utkarsh Chowdhary<br><br>Utkarsh@gmail.com<br><br>+91 8847611398<
        </div>
      </td>

        <td>
          <div id='info'>
          <a href="https://vyash5075.github.io/resume/"><img src="resume.png"></a><br><p style="font-size:22px">Yash Verma<br><br>yash@gmail.com<br><br>+91 7647596970</p>
          </div>
        </td>
          <td>
            <div id='info'>
            <a href="https://vsachdeva1998.github.io/resume/"><img src="resume.png"></a><br><p style="font-size:22px">Vinay<br><br>Vinay@gmail.com<br><br>+91 7647596970</p>
            </div>
          </td>
    </tr>
  </table>
</div>
```

```html

</div>

<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
<div class="foot_bottom">

    <div class="cpy-right">
        <h2 class="glow">Follow us on</h2>
      <ul class="sinfo">
        <li><a href="https://vidooly.com/blog/world-food-video-pages-on-facebook/"><span class="fab fa-facebook-f"></span></a></li>
        <li><a href="https://twitter.com/twitterfood"><span class="fab fa-twitter"></span></a></li>
        <li><a href="https://www.esquire.com/food-drink/drinks/"><span class="fab fa-google"></span></a></li>
        <li><a href="https://www.instagram.com/thebestdrinkever/?hl=en"><span class="fab fa-instagram"></span></a></li>
        <li><a href="https://github.com/topics/food-ordering"><span class="fab fa-github"></span></a></li>
        <li><a href="https://www.linkedin.com/company/the-food-channel-official-page-/?originalSubdomain=in"><span class="fab fa-linkedin"></span></a></li>
      </ul>
    </div>
  </div>



<script type="text/javascript">
  var d = new Date();
  var n = d.toLocaleDateString();
  document.getElementById("demo").innerHTML = n;

</script>
</body>
</html>
```

Structure Analyzing and GUI Constructing

Meals Section

An xhr request is made on themealdb api to retrieve data based on user's input term.

149 lines (99 sloc) | 3.54 KB

Raw Blame

```
function myFunction() {

alert("Fetching Results Please wait...");

const app = document.getElementById('root')
root.innerHTML="";
const container = document.createElement('div')
container.setAttribute('class', 'container')

app.appendChild(container)


var temp=document.getElementById("demo2").value;
document.getElementById("demo2").value=""
  var n = temp.length;
  var request = new XMLHttpRequest()
  if(n>1)
request.open('GET', 'https://www.themealdb.com/api/json/v1/1/search.php?s='+temp,true)
else
request.open('GET', 'https://www.themealdb.com/api/json/v1/1/search.php?f='+temp,true)
request.onload = function() {
  // Begin accessing JSON data here
  var data = JSON.parse(this.response)
      console.log(data)

if(data.meals != null) {
  if (request.status >= 200 && request.status < 400) {


    data.meals.forEach(food => {

          var img = document.createElement('img')
    img.src = food.strMealThumb
        img.setAttribute('class', 'img3')

```

Once data is retrieved it is parsed and verified before inserting data into the DOM.

```
                var ac = document.createElement('a')
    ac.setAttribute('href', food.strYoutube)


          var img2 = document.createElement('img')
          img2.setAttribute('class','ytube')
    img2.src = 'youtube.png'

      const card = document.createElement('div')
      card.setAttribute('class', 'card')

      const h1 = document.createElement('h1')
      h1.setAttribute('class', 'hed1')

      const h2 = document.createElement('h2')
      h2.setAttribute('class', 'para1')

      const p = document.createElement('p')
      p.setAttribute('class', 'para1')

      h1.textContent = food.strMeal

      h2.textContent='Instructions:'


      p.textContent = food.strInstructions

      h1.appendChild(move)
      ac.appendChild(img2)
      container.appendChild(card)
      card.appendChild(h1)
      card.appendChild(img)
      card.appendChild(h2)
```

```
    ac.setAttribute('href', food.strYoutube)


          var img2 = document.createElement('img')
          img2.setAttribute('class','ytube')
    img2.src = 'youtube.png'

      const card = document.createElement('div')
      card.setAttribute('class', 'card')

      const h1 = document.createElement('h1')
      h1.setAttribute('class', 'hed1')

      const h2 = document.createElement('h2')
      h2.setAttribute('class', 'para1')

      const p = document.createElement('p')
      p.setAttribute('class', 'para1')

      h1.textContent = food.strMeal

      h2.textContent='Instructions:'


      p.textContent = food.strInstructions

      ac.appendChild(img2)
      container.appendChild(card)
      card.appendChild(h1)
      card.appendChild(img)
      card.appendChild(h2)


      card.appendChild(p)
      card.appendChild(ac)
    })
}
```

Then data is dynamically inserted into a DOM node at id root.

```
    <a href="index.html" class="link">Home</a>
    <a href="cocktail.html" class="link ">Cocktail</a>
    <a href="beer.html" class="link ">Beer</a>
    <a href="contactus.html" class="link ">Contact Us</a>
  </div>
</div>



<div class="tb">
   <h1 style="font-size: 50px;font-family:arial black;text-shadow:2px 2px 4px #000000;">SEARCH</h1><br>
   <form autocomplete="off">
   <input type="search" id="demo2">
   <button type="button" class="fa fa-search" onclick="myFunction()" id="btn"></button>
 </form>

</div>


</div>
<div id="root"></div>

<br><br><br><br><br><br><br><br><br><br><br><br><br>
<div class="foot_bottom">

    <div class="cpy-right">
        <h2 class="glow">Follow us on</h2>
      <ul class="sinfo">
        <li><a href="https://vidooly.com/blog/world-food-video-pages-on-facebook/"><span class="fab fa-facebook-f"></span></a></li>
        <li><a href="https://twitter.com/twitterfood"><span class="fab fa-twitter"></span></a></li>
        <li><a href="https://www.esquire.com/food-drink/drinks/"><span class="fab fa-google"></span></a></li>
        <li><a href="https://www.instagram.com/thebestdrinkever/?hl=en"><span class="fab fa-instagram"></span></a></li>
        <li><a href="https://github.com/topics/food-ordering"><span class="fab fa-github"></span></a></li>
        <li><a href="https://www.linkedin.com/company/the-food-channel-official-page-/?originalSubdomain=in"><span class="fab fa-linkedin"></span></a></li>
      </ul>
    </div>
  </div>
```

Cocktail Section

An xhr request is made on thecocktaildb api to retrieve data based on user's input term.

```
function myFunction() {

alert("Fetching Results Please wait...");

const app = document.getElementById('root')
root.innerHTML="";
const container = document.createElement('div')
container.setAttribute('class', 'container')

app.appendChild(container)


var temp=document.getElementById("demo2").value;
document.getElementById("demo2").value=""
  var n = temp.length;
  var request = new XMLHttpRequest()
  if(n>1)
request.open('GET', 'https://www.thecocktaildb.com/api/json/v1/1/search.php?s='+temp,true)
else
request.open('GET', 'https://www.thecocktaildb.com/api/json/v1/1/search.php?f='+temp,true)
request.onload = function() {
  // Begin accessing JSON data here
  var data = JSON.parse(this.response)
    console.log(data)

  if(data.drinks != null) {
  if (request.status >= 200 && request.status < 400) {
    data.drinks.forEach(wine => {

          var img = document.createElement('img')
    img.src = wine.strDrinkThumb
           img.setAttribute('class', 'img3')


                    var move = document.createElement('a')
    move.setAttribute('name','movelink' )

```

Once data is retrieved it is parsed and verified before inserting data into the DOM.

```
    ac.setAttribute('href', wine.strYoutube)*/


         /*var img2 = document.createElement('img')
         img2.setAttribute('class','ytube')
    img2.src = 'youtube.png'*/

      const card = document.createElement('div')
      card.setAttribute('class', 'card')

      const h1 = document.createElement('h1')
      h1.setAttribute('class', 'hed1')

      const h2 = document.createElement('h2')
      h2.setAttribute('class', 'para1')

      const p = document.createElement('p')
      p.setAttribute('class', 'para1')

      h1.textContent = wine.strDrink

      h2.textContent='Instructions:'


      p.textContent = wine.strInstructions

      /*ac.appendChild(img2)*/
      container.appendChild(card)

      h1.appendChild(move)
      card.appendChild(h1)
      card.appendChild(img)
      card.appendChild(h2)


      card.appendChild(p)
     /* card.appendChild(ac)*/
```

```
    console.log(data)

    data.drinks.forEach(wine => {

         var img = document.createElement('img')
    img.src = wine.strDrinkThumb
          img.setAttribute('class', 'img3')


      const card = document.createElement('div')
      card.setAttribute('class', 'card')

      const h1 = document.createElement('h1')
      h1.setAttribute('class', 'hed1')

      const h2 = document.createElement('h2')
      h2.setAttribute('class', 'para1')

      const p = document.createElement('p')
      p.setAttribute('class', 'para1')

      h1.textContent = wine.strDrink

      h2.textContent='Instructions:'


      p.textContent = wine.strInstructions

      container.appendChild(card)

      card.appendChild(h1)
      card.appendChild(img)
      card.appendChild(h2)


      card.appendChild(p)
    })
  }
```

Then data is dynamically inserted into a DOM node at id root.

```
        <div class="header">
  <div class="logo">FOOD RECIPES</div>
  <p id="demo"></p>
  <div class="menu">
    <a href="cocktail.html" class="link">Home</a>
    <a href="index.html" class="link ">Meals</a>
    <a href="beer.html" class="link ">Beer</a>
    <a href="contactus.html" class="link ">Contact Us</a>
  </div>
</div>

<div class="tb">
   <h1 style="font-size: 50px;font-family:arial black;text-shadow:2px 2px 4px #000000;">SEARCH</h1>
   <form autocomplete="off">
   <input type="search" id="demo2">
   <button type="button" class="fa fa-search" onclick="myFunction()" id="btn"></button>
 </form>
</div>


</div>
<div id="root"></div>

<br><br><br><br><br><br><br><br><br><br><br><br><br><br>
<div class="foot_bottom">

    <div class="cpy-right">
        <h2 class="glow">Follow us on</h2>
      <ul class="sinfo">
        <li><a href="https://vidooly.com/blog/world-food-video-pages-on-facebook/"><span class="fab fa-facebook-f"></span></a></li>
        <li><a href="https://twitter.com/twitterfood"><span class="fab fa-twitter"></span></a></li>
        <li><a href="https://www.esquire.com/food-drink/drinks/"><span class="fab fa-google"></span></a></li>
        <li><a href="https://www.instagram.com/thebestdrinkever/?hl=en"><span class="fab fa-instagram"></span></a></li>
        <li><a href="https://github.com/topics/food-ordering"><span class="fab fa-github"></span></a></li>
        <li><a href="https://www.linkedin.com/company/the-food-channel-official-page-/?originalSubdomain=in"><span class="fab fa-linkedin"></span></a></li>
      </ul>
    </div>
  </div>
```

Beer Section

An xhr request is made on punkapi to retrieve data based on user input.

```
function myFunction() {

alert("Fetching Results Please wait...");

const app = document.getElementById('root')
root.innerHTML="";
const container = document.createElement('div')
container.setAttribute('class', 'container')

app.appendChild(container)

var temp=document.getElementById("demo2").value;
document.getElementById("demo2").value=""

  var request = new XMLHttpRequest()
  console.log(!Number.isNaN(Number(temp)))
  if(!Number.isNaN(Number(temp)))
request.open('GET', 'https://api.punkapi.com/v2/beers/'+temp,true)
else
request.open('GET', 'https://api.punkapi.com/v2/beers?beer_name='+temp,true)

request.onload = function() {
  // Begin accessing JSON data here
  var data = JSON.parse(this.response)
    console.log(data)

  if (request.status >= 200 && request.status < 400) {
    data.forEach(beer => {

          var img = document.createElement('img')
    img.src = beer.image_url
    img.setAttribute('class', 'img3')

                        var move = document.createElement('a')
    move.setAttribute('name','movelink' )
```

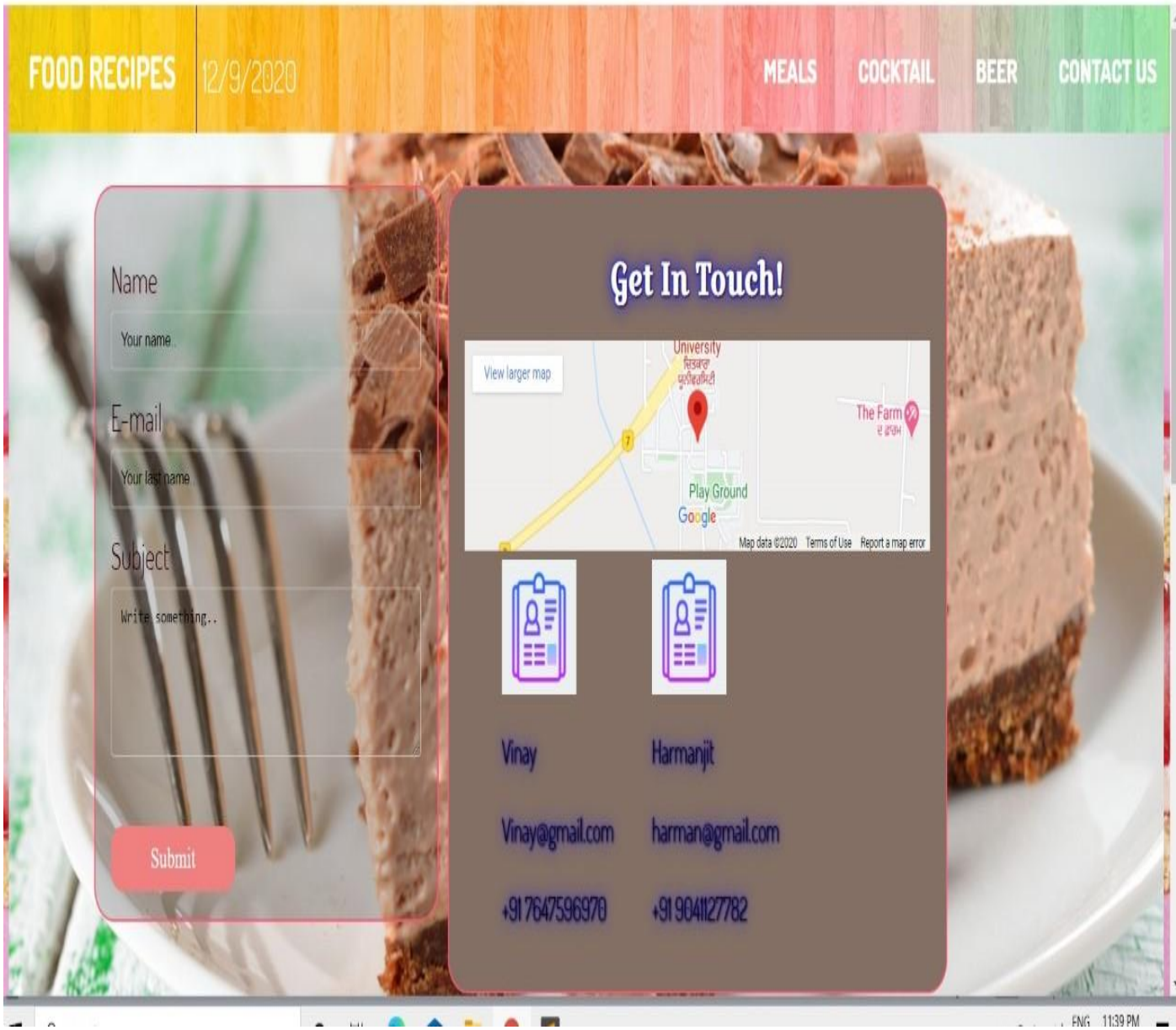
Once data is retrieved it is parsed and verified before inserting data into the DOM.

```
var data = JSON.parse(this.response)
  console.log(data)

if (request.status >= 200 && request.status < 400) {
  data.forEach(beer => {

        var img = document.createElement('img')
  img.src = beer.image_url
  img.setAttribute('class', 'img3')

                    var move = document.createElement('a')
  move.setAttribute('name','movelink' )


    const card = document.createElement('div')
    card.setAttribute('class', 'card')

    const h1 = document.createElement('h1')
    h1.setAttribute('class', 'hed1')

    const h2 = document.createElement('h2')
    h2.setAttribute('class', 'para1')

        const htag = document.createElement('h2')
    htag.setAttribute('class', 'para1')


        const hpair = document.createElement('h2')
    hpair.setAttribute('class', 'para1')

            const hbrew = document.createElement('h2')
    hbrew.setAttribute('class', 'para1')



    const p = document.createElement('p')
    p.setAttribute('class', 'para1')

```

```
        h1.textContent = beer.name

        htag.textContent='Tagline:'

        hpair.textContent='Food-pairing:'
        h2.textContent='Description:'

        hbrew.textContent='Brewers-tips:'

        ptag.textContent=beer.tagline

        p.textContent = beer.description

        ppair.textContent=beer.food_pairing

        pbrew.textContent=beer.brewers_tips
        /*ac.appendChild(img2)*/
        container.appendChild(card)

        h1.appendChild(move)
        card.appendChild(h1)
        card.appendChild(img)
        card.appendChild(htag)
        card.appendChild(ptag)
        card.appendChild(h2)
        card.appendChild(p)

        card.appendChild(hpair)
        card.appendChild(ppair)


        card.appendChild(hbrew)
        card.appendChild(pbrew)
       /* card.appendChild(ac)*/
      })
    }
```

Then data is dynamically inserted into a DOM node at id root.

```
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.3.1/css/all.css">

    <script src= "https://ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"> </script>

</head>
<body>
<div class="bg-img">
        <div class="header">
    <div class="logo">FOOD RECIPES</div>
    <p id="demo"></p>
    <div class="menu">
      <a href="beer.html" class="link">Home</a>
      <a href="index.html" class="link ">Meals</a>
      <a href="cocktail.html" class="link ">Cocktail</a>
      <a href="contactus.html" class="link ">Contact Us</a>
    </div>
</div>

<div class="tb">
     <h1 style="font-size: 50px;font-family:arial black;text-shadow:2px 2px 4px #000000;">SEARCH</h1><br>
     <form autocomplete="off">
     <input type="search" id="demo2">
     <button type="button" class="fa fa-search" onclick="myFunction()" id="btn"></button>
  </form>
</div>


</div>

<div id="root"></div>

<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
<div class="foot_bottom">

    <div class="cpy-right">
        <h2 class="glow">Follow us on</h2>
      <ul class="sinfo">
        <li><a href="https://vidooly.com/blog/world-food-video-pages-on-facebook/"><span class="fab fa-facebook-f"></span></a></li>
```


FOOD RECIPES
12/9/2020
MEALS
COCKTAIL
BEER
CONTACT US
Name
Your name..
E-mail
Your last name..
Subject
Write something..
Submit
Get In Touch!
View larger map
University
The Farm
Play Ground
Google
Map data ©2020 Terms of Use Report a map error
Vinay
Vinay@gmail.com
+91 7647596970
Harmanjit
harman@gmail.com
+91 9041127782

CONCLUSION

From a proper analysis of positive points and constraints on the component, it can be safely concluded that the product is a moderately efficient GUI based component. This application is working properly and meeting most of the requirements which allows the user to select the ingredients he/she wants and view recipes that contain those ingredients. These ingredients can be sorted and filtered to the user's convenience. The user can also view recipes directly and select the one. Recipes can be also added by the user along with new ingredients. The recipes also show nutritional facts that can help the user make a better choice. This application was developed to solve one of the problems most people have, what could be made from the available ingredients. The application solves this and many other problems while also providing the user with nutritional knowledge about their food and the essential food recipes.

Key Learnings:

- A better understanding of the recipes going on currently and the target of the project to learn practical experience and understanding knowledge.
- Adopting better variety of instructions for meals and ordering skills.
- Developed planning skills that plans a menu and grocery list which helps in explaining smart food choices with different mindsets.
- Theoretical knowledge along with the practical implementation of the same helps in better understanding of the same.
- Asking thought-provoking questions about food recipe choices and other activities. Also somewhere developing the conversations that teaches the child to carry a thoughtful mindset for the meals.

Problems Faced:

- Managing team member with different mindsets during the survey.
- Keeping myself motivated even when some of the mentors had a different approach to my idea.
- Finding out the exact solution of the idea and implementing it practically.
- Managing work and topics that was divided amongst us equally.

FUTURE PLAN

To grow exponentially, we divide our future plan into various phases:

Phase 1:

- Create a review and rating system considering real-time data.
- Search recipes by keyword or by Chef.
- Collect more data for the website.
- Create auto-lock screen allows users to buy recipe without any distraction.
- Increase traffic on the website.
- Grocery Shopping Lists and Social Media Sharing.

Phase 2:

- Create a rating system for the user that will rate the recipes according to his experience and convenience depending upon their condition.
- Certify the best suited properties and choose them accordingly.

Phase 3:

- Get our first round of funding and security check system enabled.
- Pick some different recipes from the recipe list and state them as “RECIPE EXCLUSIVE”
- To expand to more cities in North India and worldwide and will be available internationally.

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