ICP6

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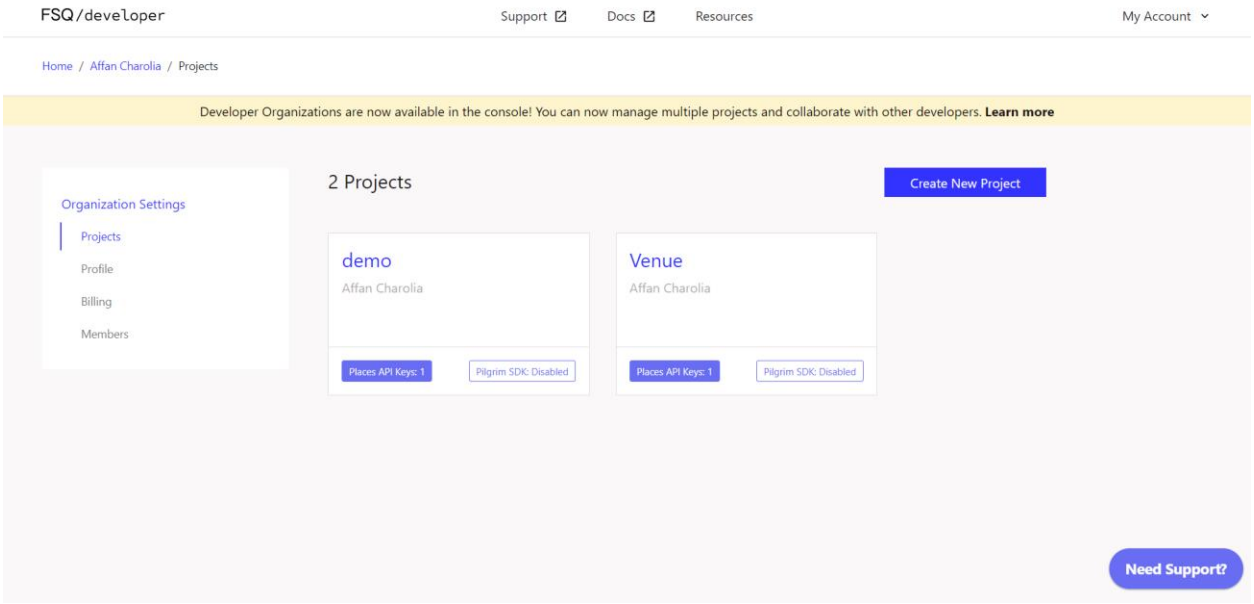
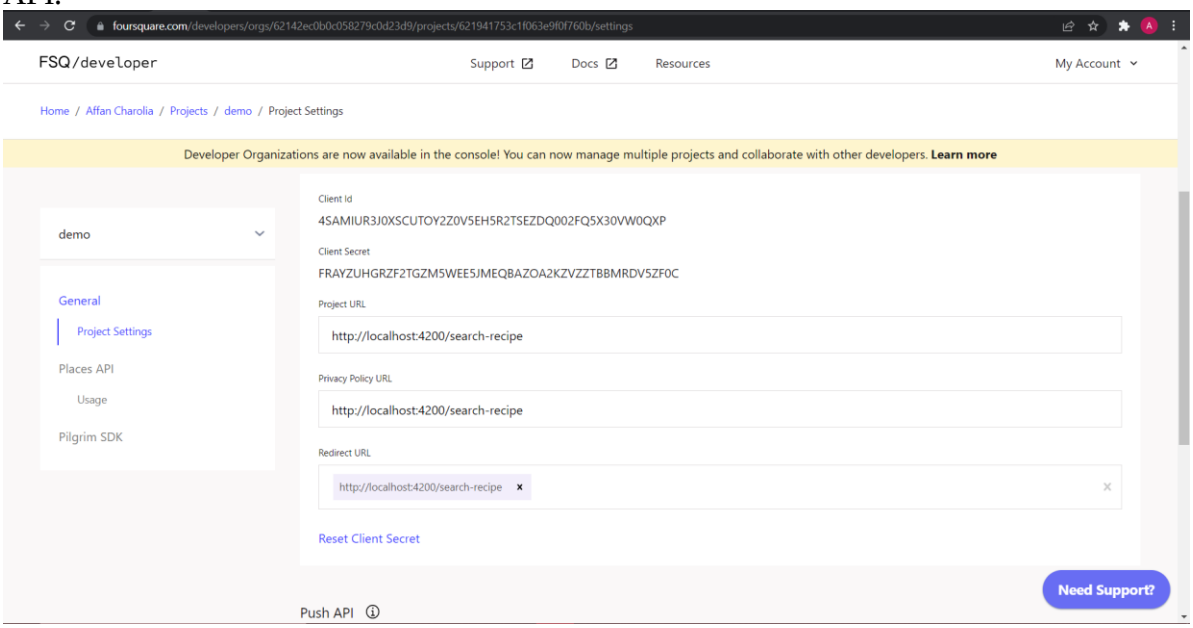
Aim: The goal of this ICP was to create a web application in angular which displays nearby restaurants and recipes using Foursquare and EDAMAM APIs.

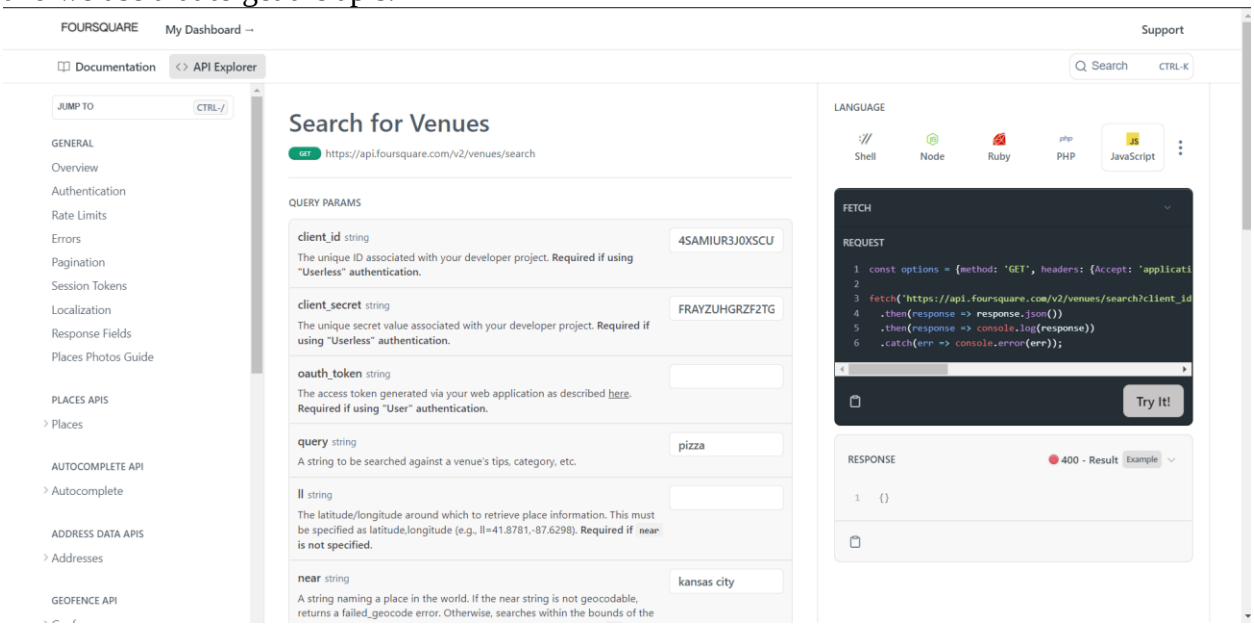
Explanation:
Creating an account with Foursquare and then following the steps to create a project.



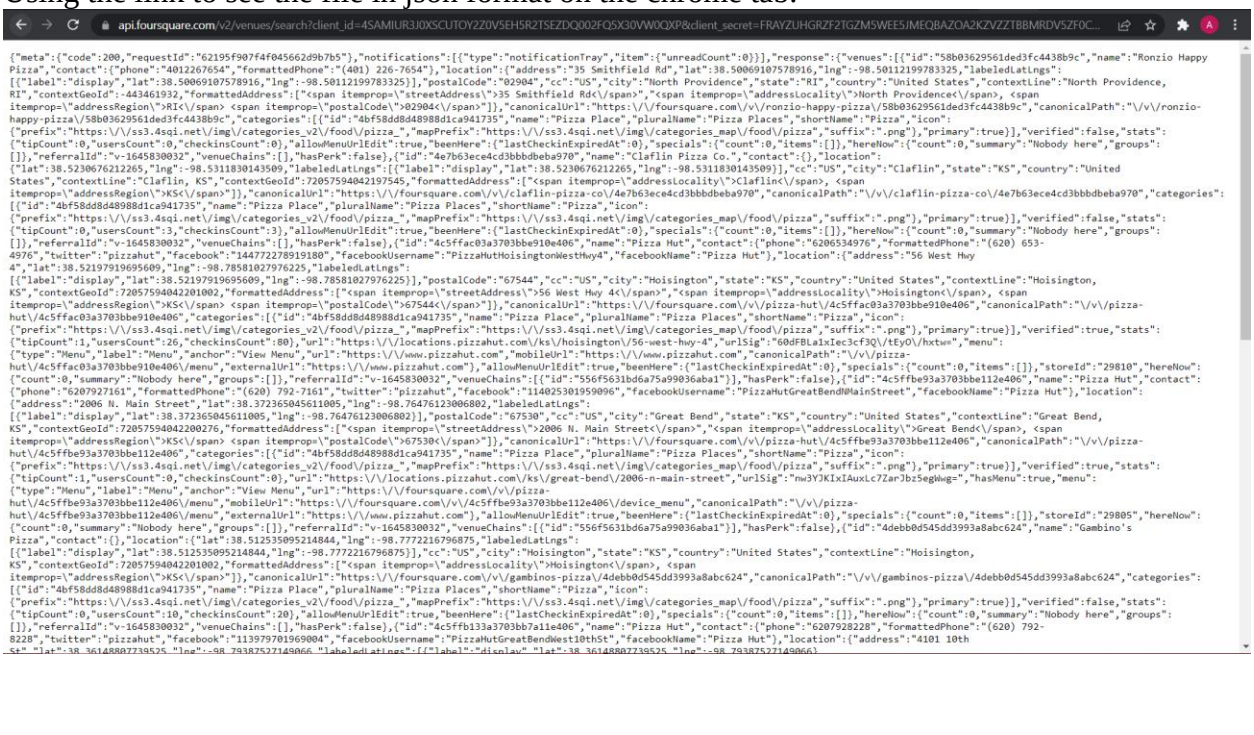
After creating the project we get the Client id and Client secret which we will be using in our API.



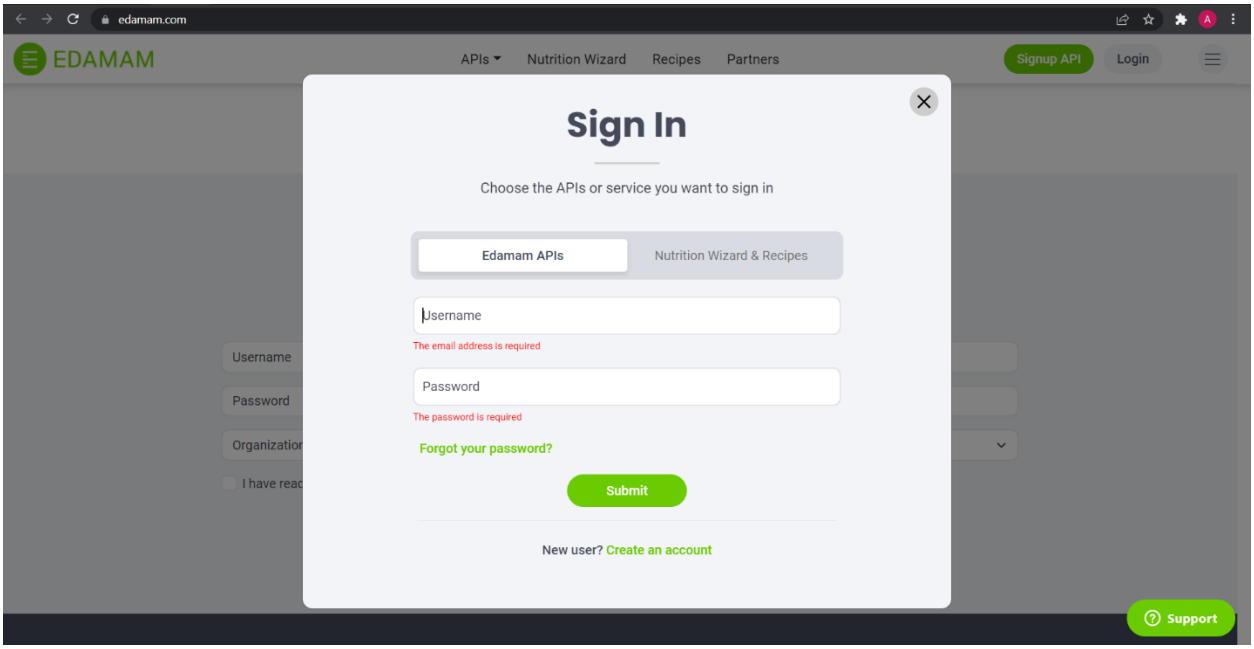
To generate the api we go to the api explorer and then to the search for venue section. There we fill the fields for client_id, client_secret, query, and near. It generates the link towards the left and we use that to get the apis.



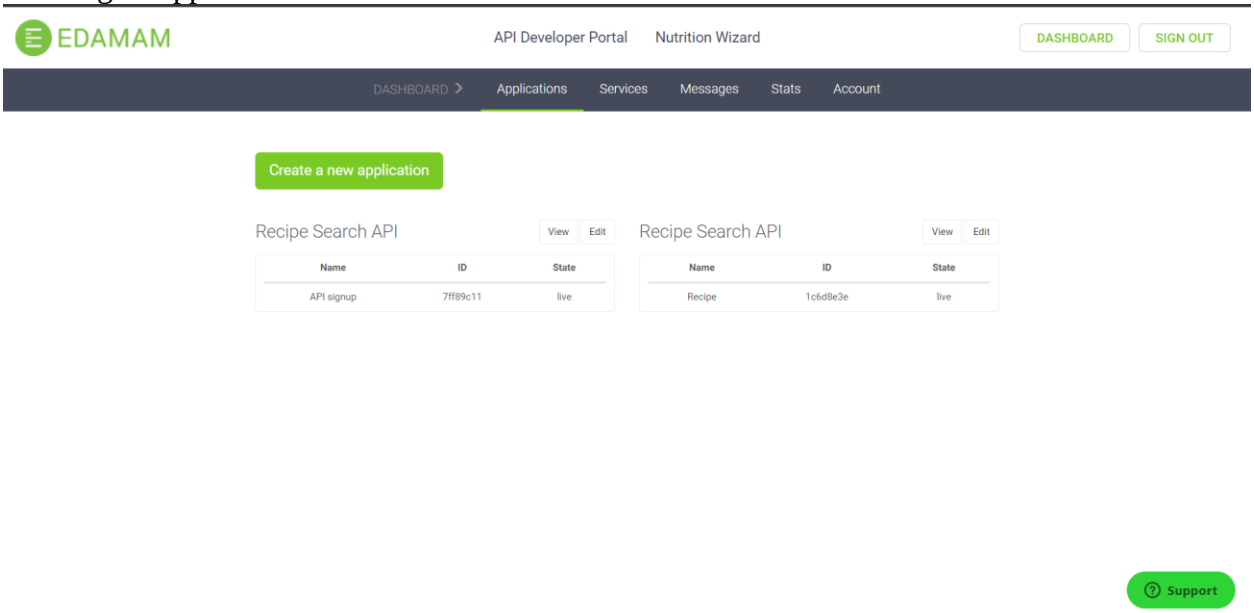
Using the link to see the file in json format on the chrome tab.



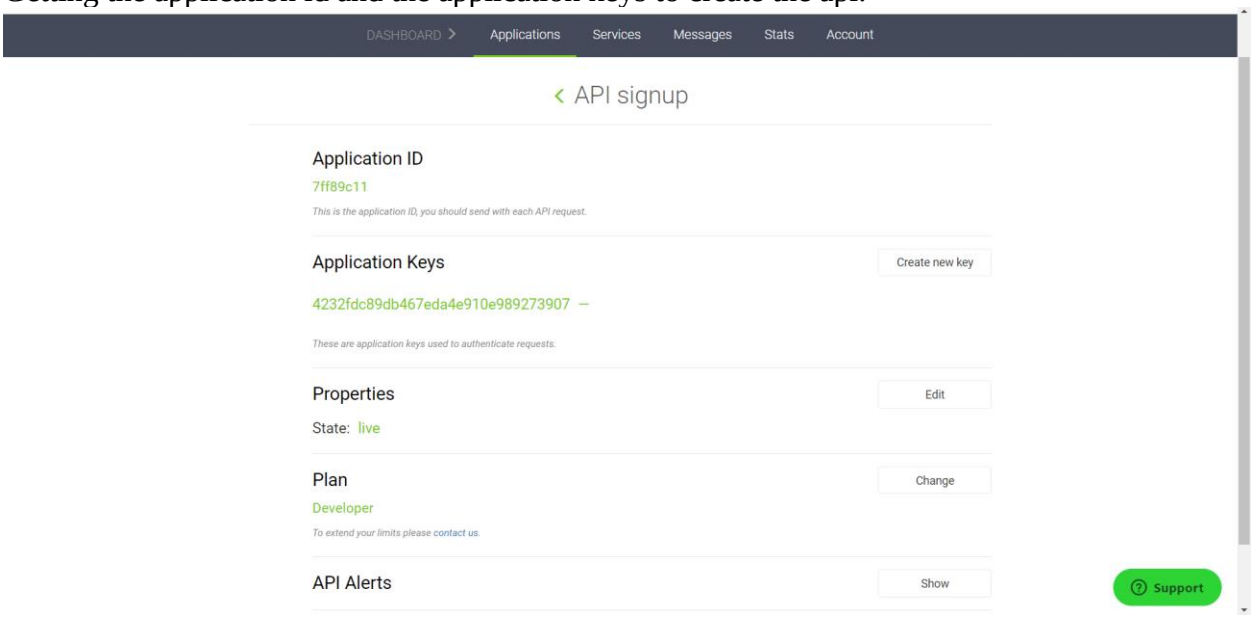
Signing in to EDAMAM website.



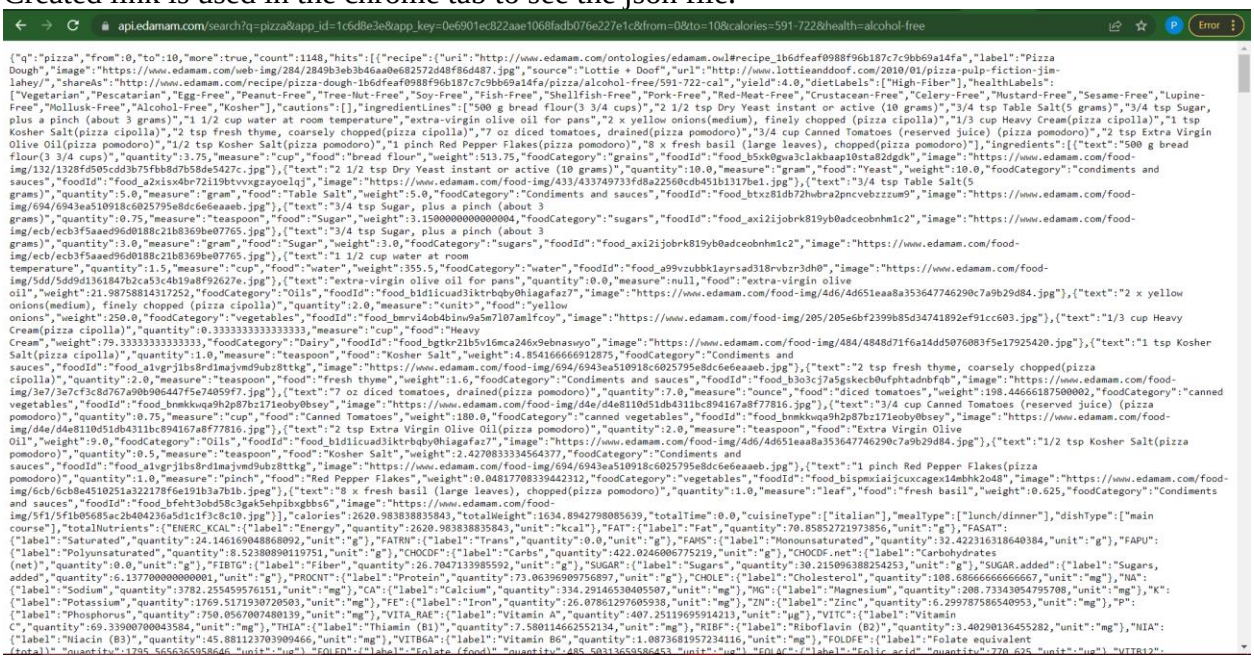
Creating an application on EDAMAM.



Getting the application id and the application keys to create the api.

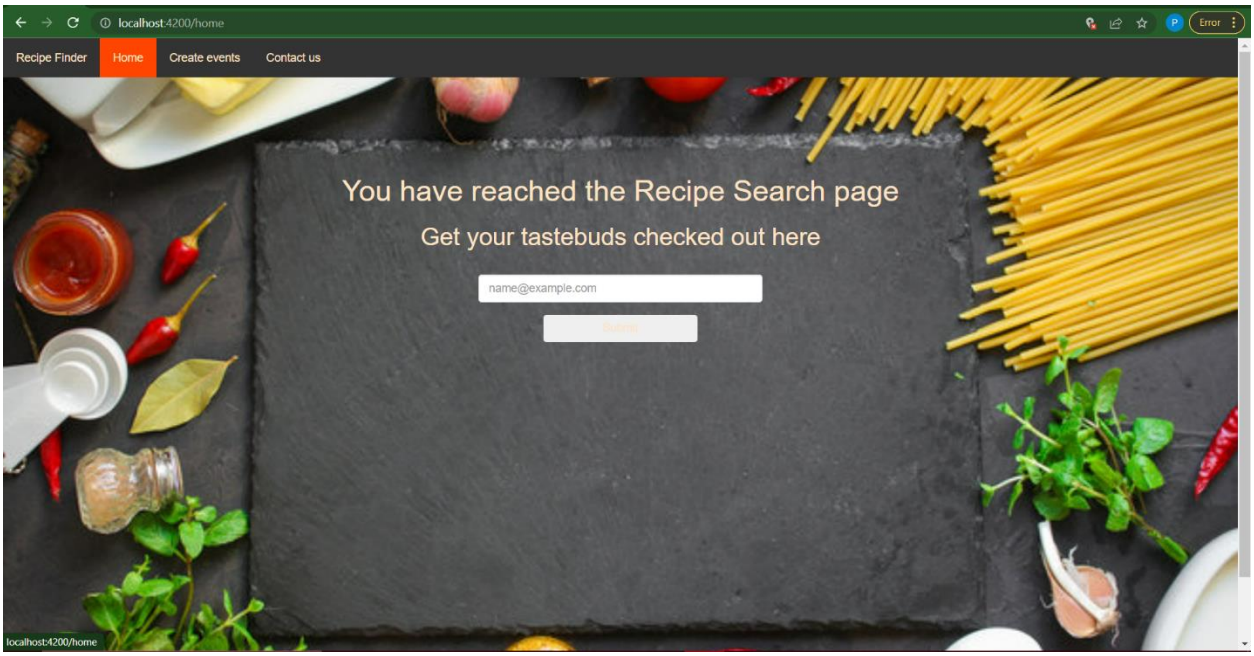


Created link is used in the chrome tab to see the json file.

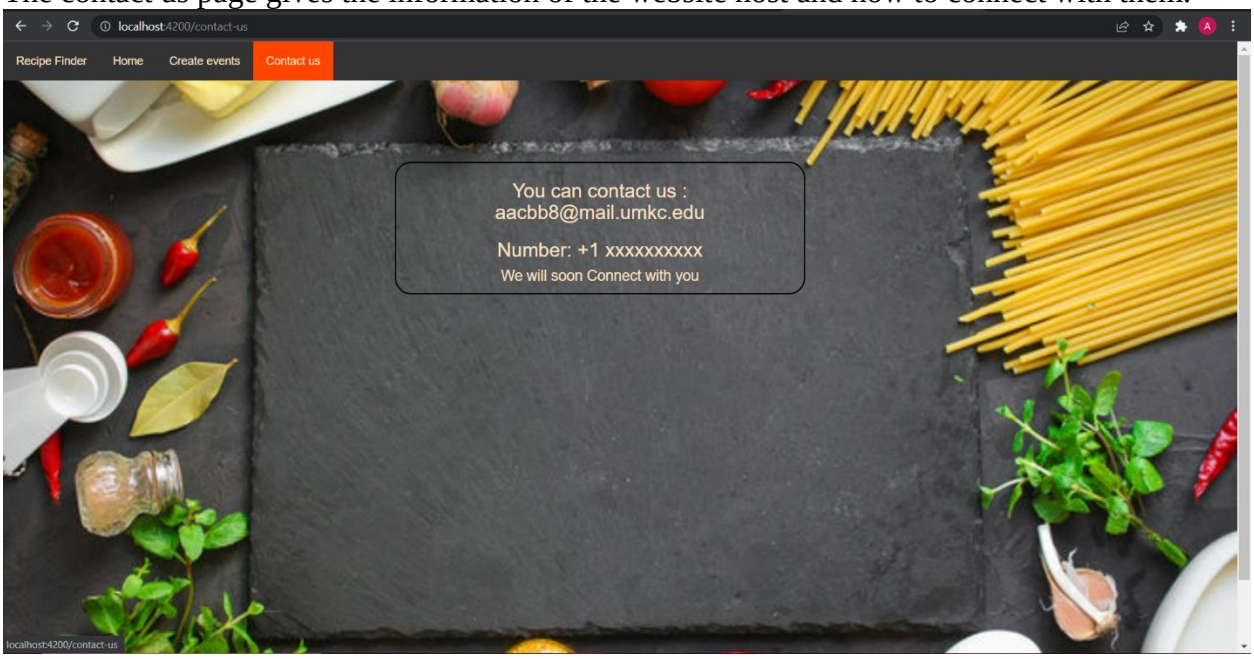


{"q":"pizza","from":0,"to":10,"more":true,"count":1148,"hits":[{"recipe":{"uri":"http://www.edamam.com/ontologies/edamam.owl#recipe_1b6dfeaf0988f96b187c7c9bb69a14fa","label":"Pizza Dough","image":"https://www.edamam.com/web-img/284/2849b3eb3b46aa0e682572d48f86d487.jpg","source":"Lottie + Doof","url":"http://www.lottieanddoof.com/2010/01/pizza-pulp-fiction-jim-lahey/","shareAs":"http://www.edamam.com/recipe/pizza-dough-1b6dfeaf0988f96b187c7c9bb69a14fa/pizza/alcohol-free/591-722-cal","yield":4.0,"dietLabels":["High-Fiber"],"healthLabels":["Vegetarian","Pescatarian","Egg-Free","Peanut-Free","Tree-Nut-Free","Soy-Free","Fish-Free","Shellfish-Free","Pork-Free","Red-Meat-Free","Crustacean-Free","Celery-Free","Mustard-Free","Sesame-Free","Lupine-Free","Mollusk-Free","Alcohol-Free","Kosher"],"cautions":[],"ingredientLines":["500 g bread flour(3 3/4 cups)","2 1/2 tsp Dry Yeast instant or active (10 grams)","3/4 tsp Table Salt(5 grams)","3/4 tsp Sugar, plus a pinch (about 3 grams)","1 1/2 cup water at room temperature","extra-virgin olive oil for pans","2 x yellow onions(medium), finely chopped (pizza cipolla)","1/3 cup Heavy Cream(pizza cipolla)","1 tsp Kosher Salt(pizza cipolla)","2 tsp fresh thyme, coarsely chopped(pizza cipolla)","7 oz diced tomatoes, drained(pizza pomodoro)","3/4 cup Canned Tomatoes (reserved juice) (pizza pomodoro)","2 tsp Extra Virgin Olive Oil(pizza pomodoro)","1/2 tsp Kosher Salt(pizza pomodoro)","1 pinch Red Pepper Flakes(pizza pomodoro)","8 x fresh basil (large leaves), chopped(pizza pomodoro)"],"ingredients":[{"text":"500 g bread flour(3 3/4 cups)","quantity":3.75,"measure":"cup","food":"bread flour","weight":513.75,"foodCategory":"grains","foodId":"food_b5xk0gwa3clakbaap10sta82dgdk","image":"https://www.edamam.com/food-img/132/1328fd505cdd3b75fbb8d7b58de5427c.jpg"},{"text":"2 1/2 tsp Dry Yeast instant or active (10 grams)","quantity":10.0,"measure":"gram","food":"Yeast","weight":10.0,"foodCategory":"condiments and sauces","foodId":"food_a2xisx4br72i19btvvxgzayoelqj","image":"https://www.edamam.com/food-img/433/433749733fd8a22560cdb451b1317be1.jpg"},{"text":"3/4 tsp Table Salt(5 grams)","quantity":5.0,"measure":"gram","food":"Table Salt","weight":5.0,"foodCategory":"Condiments and sauces","foodId":"food_btxz81db72hwbra2pncvebzzzum9","image":"https://www.edamam.com/food-img/694/6943ea510918c6025795e8dc6e6eaaeb.jpg"},{"text":"3/4 tsp Sugar, plus a pinch (about 3 grams)","quantity":0.75,"measure":"teaspoon","food":"Sugar","weight":3.1500000000000004,"foodCategory":"sugars","foodId":"food_axi2ijobrk819yb0adceobnhm1c2","image":"https://www.edamam.com/food-img/ecb/ecb3f5aaed96d0188c21b8369be07765.jpg"},{"text":"3/4 tsp Sugar, plus a pinch (about 3 grams)","quantity":3.0,"measure":"gram","food":"Sugar","weight":3.0,"foodCategory":"sugars","foodId":"food_axi2ijobrk819yb0adceobnhm1c2","image":"https://www.edamam.com/food-img/ecb/ecb3f5aaed96d0188c21b8369be07765.jpg"},{"text":"1 1/2 cup water at room temperature","quantity":1.5,"measure":"cup","food":"water","weight":355.5,"foodCategory":"water","foodId":"food_a99vzubbk1ayrsad318rvbzr3dh0","image":"https://www.edamam.com/food-img/5dd/5dd9d1361847b2ca53c4b19a8f92627e.jpg"},{"text":"extra-virgin olive oil for pans","quantity":0.0,"measure":null,"food":"extra-virgin olive oil","weight":21.98758814317252,"foodCategory":"Oils","foodId":"food_b1d1icuad3iktrbqby0hiagafaz7","image":"https://www.edamam.com/food-img/4d6/4d651eaa8a353647746290c7a9b29d84.jpg"},{"text":"2 x yellow onions(medium), finely chopped (pizza cipolla)","quantity":2.0,"measure":"<unit>","food":"yellow onions","weight":250.0,"foodCategory":"vegetables","foodId":"food_bmrvi4ob4binw9a5m7l07aml7coy","image":"https://www.edamam.com/food-img/205/205e6bf2399b85d34741892ef91cc603.jpg"},{"text":"1/3 cup Heavy Cream(pizza cipolla)","quantity":0.3333333333333333,"measure":"cup","food":"Heavy Cream","weight":79.33333333333333,"foodCategory":"Dairy","foodId":"food_bgtkr21b5v16mca246x9ebnaswyo","image":"https://www.edamam.com/food-img/484/4848d71f6a14dd5076083f5e17925420.jpg"},{"text":"1 tsp Kosher Salt(pizza cipolla)","quantity":1.0,"measure":"teaspoon","food":"Kosher Salt","weight":4.8541666666912875,"foodCategory":"Condiments and sauces","foodId":"food_a1vgrjibs8rd1majvmd9ubz8ttkg","image":"https://www.edamam.com/food-img/694/6943ea510918c6025795e8dc6e6eaaeb.jpg"},{"text":"2 tsp fresh thyme, coarsely chopped(pizza cipolla)","quantity":2.0,"measure":"teaspoon","food":"fresh thyme","weight":1.6,"foodCategory":"Condiments and sauces","foodId":"food_b3o3cj7a5gskecb0ufphtadnbfqb","image":"https://www.edamam.com/food-img/3e7/3e7cf3c8d767a90b906447f5e74059f7.jpg"},{"text":"7 oz diced tomatoes, drained(pizza pomodoro)","quantity":7.0,"measure":"ounce","food":"diced tomatoes","weight":198.44666187500002,"foodCategory":"canned vegetables","foodId":"food_bnmkkwqa9h2p87bz171eoby0bsey","image":"https://www.edamam.com/food-img/d4e/d4e8110d51db4311bc894167a8f77816.jpg"},{"text":"3/4 cup Canned Tomatoes (reserved juice) (pizza pomodoro)","quantity":0.75,"measure":"cup","food":"Canned Tomatoes","weight":180.0,"foodCategory":"canned vegetables","foodId":"food_bnmkkwqa9h2p87bz171eoby0bsey","image":"https://www.edamam.com/food-img/d4e/d4e8110d51db4311bc894167a8f77816.jpg"},{"text":"2 tsp Extra Virgin Olive Oil(pizza pomodoro)","quantity":2.0,"measure":"teaspoon","food":"Extra Virgin Olive Oil","weight":9.0,"foodCategory":"Oils","foodId":"food_b1d1icuad3iktrbqby0hiagafaz7","image":"https://www.edamam.com/food-img/4d6/4d651eaa8a353647746290c7a9b29d84.jpg"},{"text":"1/2 tsp Kosher Salt(pizza pomodoro)","quantity":0.5,"measure":"teaspoon","food":"Kosher Salt","weight":2.4270833334564377,"foodCategory":"Condiments and sauces","foodId":"food_a1vgrjibs8rdimajvmd9ubz8ttkg","image":"https://www.edamam.com/food-img/694/6943ea510918c6025795e8dc6e6eaaeb.jpg"},{"text":"1 pinch Red Pepper Flakes(pizza pomodoro)","quantity":1.0,"measure":"pinch","food":"Red Pepper Flakes","weight":0.04817708339442312,"foodCategory":"vegetables","foodId":"food_bispmxiaijcuxcagex14ebhk2o48","image":"https://www.edamam.com/food-img/6cb/6cb8e4510251a322178f6e191b3a7b1b.jpeg"},{"text":"8 x fresh basil (large leaves), chopped(pizza pomodoro)","quantity":1.0,"measure":"leaf","food":"fresh basil","weight":0.625,"foodCategory":"Condiments and sauces","foodId":"food_bfeht3obd58c3gak5ehpibxgbbs6","image":"https://www.edamam.com/food-img/5f1/5f1b05685ac2b404236a5d1c1f3c8c10.jpg"}],"calories":2620.983838835843,"totalWeight":1634.894279085639,"totalTime":0.0,"cuisineType":["italian"],"mealType":["lunch/dinner"],"dishType":["main course"],"totalNutrients":{"ENERC_KCAL":{"label":"Energy","quantity":2620.983838835843,"unit":"kcal"},"FAT":{"label":"Fat","quantity":70.85852721973856,"unit":"g"},"FASAT":{"label":"Saturated","quantity":24.146169048868092,"unit":"g"},"FATRN":{"label":"Trans","quantity":0.0,"unit":"g"},"FAMS":{"label":"Monounsaturated","quantity":32.422316318640384,"unit":"g"},"FAPU":{"label":"Polyunsaturated","quantity":8.523808901197 51,"unit":"g"},"CHOCDF":{"label":"Carbs","quantity":422.0246006775219,"unit":"g"},"CHOCDF.net":{"label":"Carbohydrates (net)","quantity":0.0,"unit":"g"},"FIBTG":{"label":"Fiber","quantity":26.7047133985592,"unit":"g"},"SUGAR":{"label":"Sugars","quantity":30.215096388254253,"unit":"g"},"SUGAR.added":{"label":"Sugars, added","quantity":6.137700000000001,"unit":"g"},"PROCNT":{"label":"Protein","quantity":73.06396909756897,"unit":"g"},"CHOLE":{"label":"Cholesterol","quantity":108.68666666666667,"unit":"mg"},"NA":{"label":"Sodium","quantity":3782.2554595761 51,"unit":"mg"},"CA":{"label":"Calcium","quantity":334.2914653040550 7,"unit":"mg"},"MG":{"label":"Magnesium","quantity":208.73343054795708,"unit":"mg"},"K":{"label":"Potassium","quantity":1769.5171930720503,"unit":"mg"},"FE":{"label":"Iron","quantity":26.078612976059 38,"unit":"mg"},"ZN":{"label":"Zinc","quantity":6.299787586540953,"unit":"mg"},"P":{"label":"Phosphorus","quantity":750.0567007401 39,"unit":"mg"},"VITA_RAE":{"label":"Vitamin A","quantity":407.2511969594213,"unit":"µg"},"VITC":{"label":"Vitamin C","quantity":69.33900700043584,"unit":"mg"},"THIA":{"label":"Thiamin (B1)","quantity":7.580114662552134,"unit":"mg"},"RIBF":{"label":"Riboflavin (B2)","quantity":3.40290136455282,"unit":"mg"},"NIA":{"label":"Niacin (B3)","quantity":45.881123703909466,"unit":"mg"},"VITB6A":{"label":"Vitamin B6","quantity":1.0873681957234116,"unit":"mg"},"FOLDFE":{"label":"Folate equivalent (total)","quantity":1795.5656365958646,"unit":"µg"},"FOLFD":{"label":"Folate (food)","quantity":485.5031365958645 3,"unit":"µg"},"FOLAC":{"label":"Folic acid","quantity":270.625,"unit":"µg"},"VITB12":

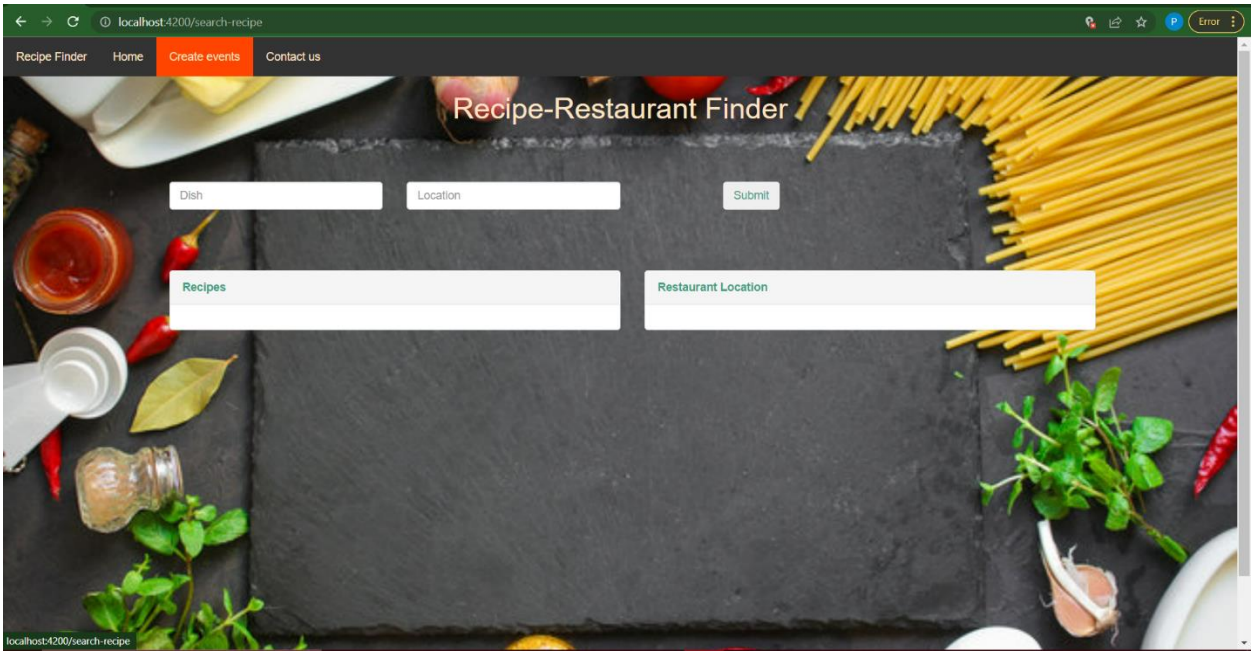
Below is the User interface for the website. The following page is the home page. It has four tabs, the first two are the for the home, which gives the user the option to subscribe to our website.



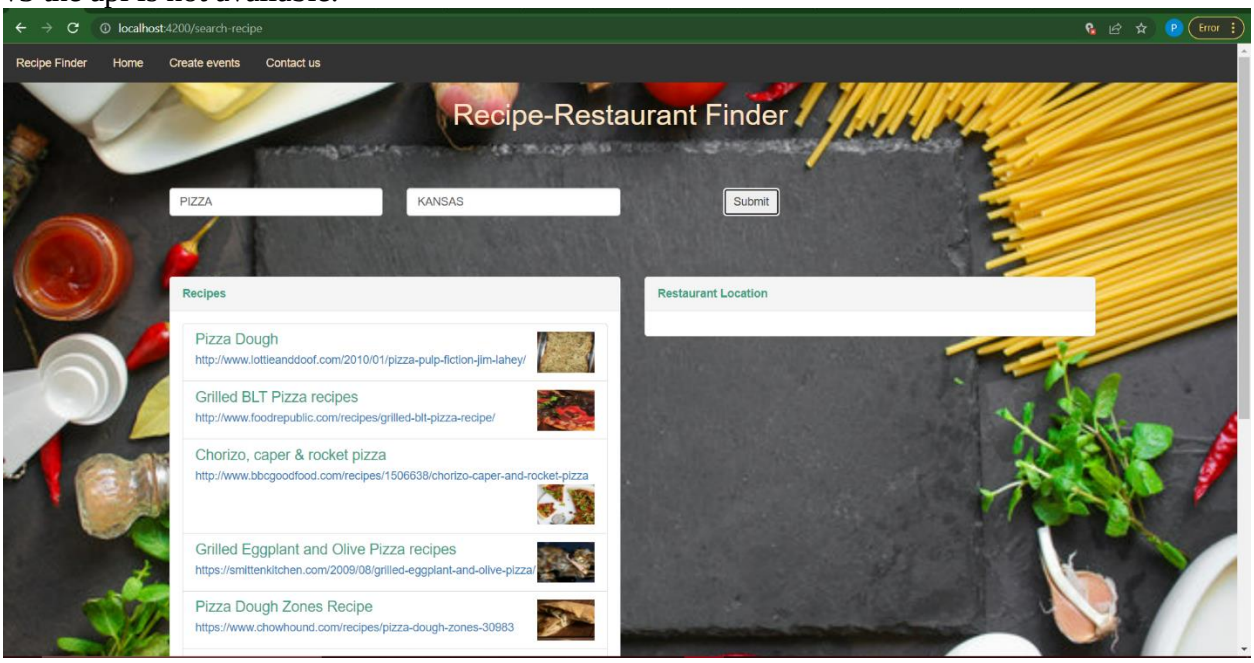
The contact us page gives the information of the website host and how to connect with them.



The create events page is where the recipe and restaurant location for a particular cuisine is found.



Entering the Dish name and location to get the recipes and restaurant location. The Foursquare api was not functioning on the website as the v2 has been deprecated and for the newer version v3 the api is not available.



We use the routers to toggle between the pages. The below image shows the header menu with the location they go to when the link is pressed.

search-recipe.component.html | header.component.html M | search-recipe.component.ts | search-recipe.component.css

src > app > header > header.component.html > ul

```
<ul>
  <li><a routerLink="/">Recipe Finder</a></li>
  <li><a routerLink="/home">Home</a></li>
  <li><a routerLink="/search-recipe">Create events</a></li>
  <li><a routerLink="/contact-us">Contact us</a></li>
</ul>
```

search-recipe.component.html | app.component.html M | search-recipe.component.ts | search-recipe.component.css

src > app > app.component.html > div.image

```
<div class="image">
  <app-header></app-header>

  <div class="container">
    <div class="row">
      <div class="col-md-12">
        <router-outlet></router-outlet>
      </div>
    </div>
  </div>
</div>
```

The routing module is used to map the components to the links.

search-recipe.component.html | app-routing.module.ts M | search-recipe.component.ts | search-recipe.component.css

src > app > app-routing.module.ts > ...

```
import { NgModule } from '@angular/core';
import { Routes, RouterModule } from '@angular/router';
import {HomeComponent} from './home/home.component';
import {SearchRecipeComponent} from './search-recipe/search-recipe.component';
import {ContactUsComponent} from './contact-us/contact-us.component';

const appRoutes: Routes = [
  { path: '', redirectTo: '/home', pathMatch: 'full' },
  { path: 'home', component: HomeComponent},
  { path: 'search-recipe', component: SearchRecipeComponent},
  { path: 'contact-us', component: ContactUsComponent}
];

@NgModule({
  imports: [RouterModule.forRoot(appRoutes)],
  exports: [RouterModule]
})
export class AppRoutingModule { }
```

search-recipe.component.html | app.module.ts M | search-recipe.component.ts | search-recipe.component.css

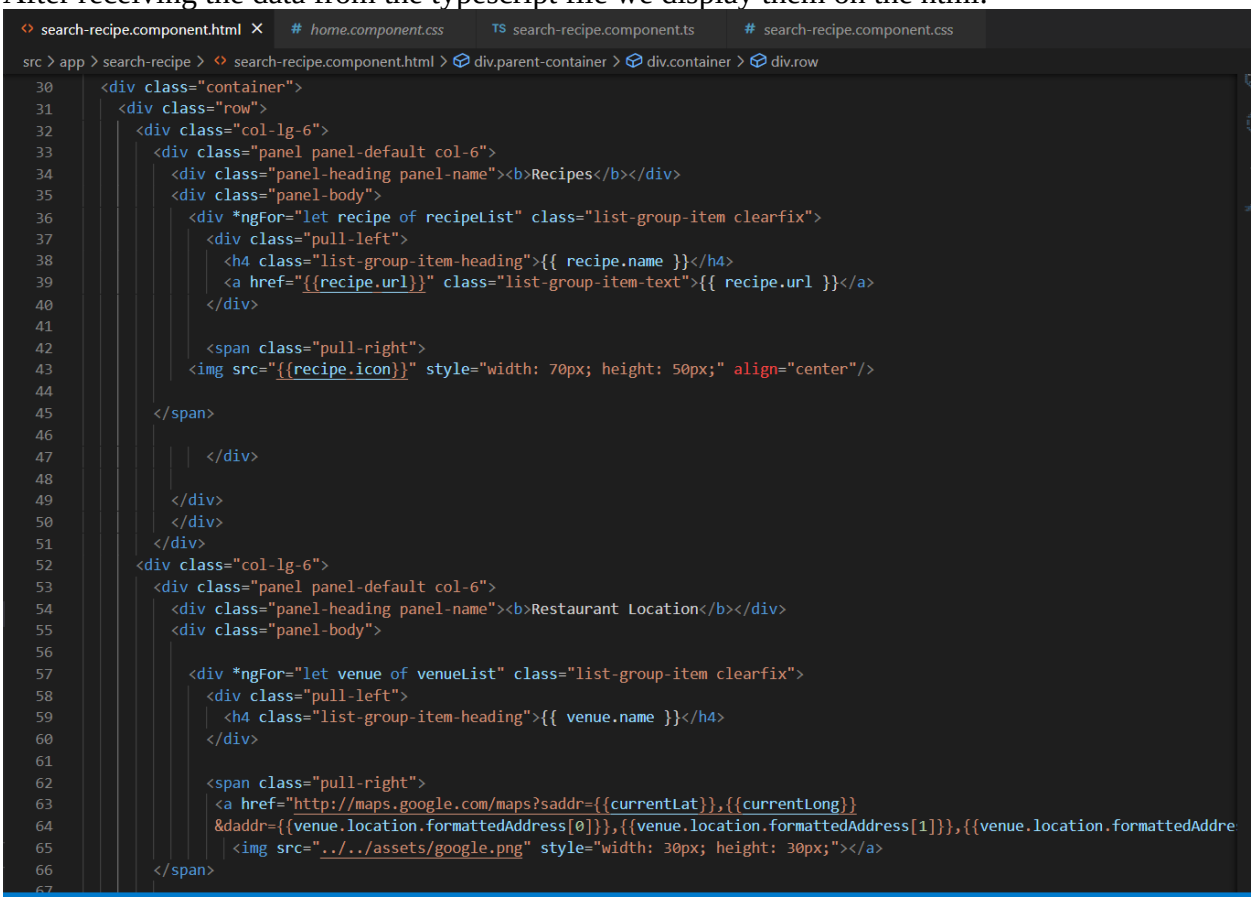
src > app > app.module.ts > AppModule

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import {HeaderComponent} from './header/header.component';
import { HomeComponent } from './home/home.component';
import { SearchRecipeComponent } from './search-recipe/search-recipe.component';
import {HttpClientModule} from '@angular/common/http';
import { ContactUsComponent } from './contact-us/contact-us.component';

@NgModule({
  declarations: [
    AppComponent,
    HeaderComponent,
    HomeComponent,
    SearchRecipeComponent,
    ContactUsComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    HttpClientModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

The below image is the html page for the search recipe and restaurant page. We use the functions created in the typescript file and use them in the tags. We take the inputs and on clicking the submit button send them to the typescript file.

```
search-recipe.component.html | home.component.css | search-recipe.component.ts | search-recipe.component.css
src > app > search-recipe > search-recipe.component.html > div.parent-container > div.container > div.row
<h1>Recipe-Restaurant Finder</h1>
<br>
<br>
<br>
<div class="parent-container">
  <div class="child-container">
    <form>
      <div class="form-group">
        <div class="container">
          <div class="row">
            <div class="col-md-3">
              <input #recipe class="form-control" placeholder="Dish" type="text">
            </div>
            <div class="col-md-3">
              <input #place type="text" class="form-control" placeholder="Location">
            </div>
            <div class="col-md-3">
              <button (click)="getVenues()" type="button" class="btn btn-outline-success">Submit</button>
            </div>
          </div>
        </div>
      </div>
    </form>
```

After receiving the data from the typescript file we display them on the html.



```
search-recipe.component.html | home.component.css | search-recipe.component.ts | search-recipe.component.css
src > app > search-recipe > search-recipe.component.html > div.parent-container > div.container > div.row
<div class="container">
  <div class="row">
    <div class="col-lg-6">
      <div class="panel panel-default col-6">
        <div class="panel-heading panel-name"><b>Recipes</b></div>
        <div class="panel-body">
          <div *ngFor="let recipe of recipeList" class="list-group-item clearfix">
            <div class="pull-left">
              <h4 class="list-group-item-heading">{{ recipe.name }}</h4>
              <a href="{{recipe.url}}" class="list-group-item-text">{{ recipe.url }}</a>
            </div>

            <span class="pull-right">
          <img src="{{recipe.icon}}" style="width: 70px; height: 50px;" align="center"/>

      </span>

            </div>

        </div>
        </div>
      </div>
    <div class="col-lg-6">
      <div class="panel panel-default col-6">
        <div class="panel-heading panel-name"><b>Restaurant Location</b></div>
        <div class="panel-body">

          <div *ngFor="let venue of venueList" class="list-group-item clearfix">
            <div class="pull-left">
              <h4 class="list-group-item-heading">{{ venue.name }}</h4>
            </div>

            <span class="pull-right">
             <a href="http://maps.google.com/maps?saddr={{currentLat}},{{currentLong}}
             &daddr={{venue.location.formattedAddress[0]}},{{venue.location.formattedAddress[1]}},{{venue.location.formattedAddre
               <img src="../../assets/google.png" style="width: 30px; height: 30px;"></a>
      </span>
```

```css
h1{
  text-align: center;
  color: bisque;
}

.panel-name{
  color: rgb(62, 160, 127);
}
}
.parent-container {
  position: relative;
  color: rgb(62, 160, 127);
  height:100%;
  width: 100%;
}

.child-container {
  text-align: center;
  position: center;

}
.desc {
  font-family: Georgia;
  font-size: 17px;
}

.thumbnail {
  box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.5);
  transition: 0.3s;
  min-width: 40%;
  border-radius: 5px;
}

.thumbnail-description {
  min-height: 40px;
}

.thumbnail:hover {
```

In the typescript file the getvenues function is called which has two api calls, on two foursquare and another one to EDAMAM. We store the values in an array object and from each object we take a particular field which we need to be displayed.