**Nutririon.service.ts :**

**import** { Injectable } **from '@angular/core'**;  
**import** {HttpClient} **from '@angular/common/http'**;  
  
@Injectable({  
 **providedIn**: **'root'**})  
**export class** NutritionService {  
 **public url**;  
 **public url1**;  
 **constructor**(**private http**: HttpClient) {  
 }  
 getCal(item) {  
 *// this.url1 = 'https://stream.watsonplatform.net/text-to-speech/api/v1/synthesize?username=f61d1286-72ec-4d67-a0a2-16969a62acac&password=4AmGC8jSSy5G&text=' + item + '';* **this**.**url** = **'https://api.nutritionix.com/v1\_1/search/'** + item + **'?'** + **'results=0:1&fields=\*&appId=d30da655&appKey=b86c2cb215fc15f9512f44c3c959acd4'**;  
 *// this.url = 'http://api.wunderground.com/api/4bbbc25f4f5946dd/conditions/q/' + code + '/' + city + '.json';* **return this**.**http**.get(**this**.**url**);  
 }  
}

**App.module.ts :**

**import** { BrowserModule } **from '@angular/platform-browser'**;  
**import** { RouterModule, Routes } **from '@angular/router'**;  
**import** { NgModule } **from '@angular/core'**;  
  
**import** { AppComponent } **from './app.component'**;  
**import** { LoginComponent } **from './login/login.component'**;  
**import** { RegisterComponent } **from './register/register.component'**;  
**import** { HomeComponent } **from './home/home.component'**;  
**import** { FormsModule } **from '@angular/forms'**;  
**import** {AppRoutingModule} **from './app-routing/app-routing.module'**;  
**import** {NutritionService} **from './nutrition.service'**;  
**import** { HttpClientModule} **from '@angular/common/http'**;  
  
  
@NgModule({  
 **declarations**: [  
 AppComponent,  
 LoginComponent,  
 RegisterComponent,  
 HomeComponent  
 ],  
 **imports**: [  
 BrowserModule,  
 HttpClientModule,  
 FormsModule,  
 AppRoutingModule,  
 RouterModule.*forRoot*([  
 {**path**: **'Home'**, **component**: HomeComponent},  
 {**path**: **'Register'**, **component**: RegisterComponent},  
 {**path**: **'Login'**, **component**: LoginComponent}  
 ])  
 ],  
 **providers**: [ NutritionService ],  
 **bootstrap**: [AppComponent]  
})  
**export class** AppModule { }

**appcomponent.html**

<**div class="image"**>  
*<!--  
<div class="myDiv" style="text-align:center">  
-->* <**div class="article-container" style=" width**: 100%; **color**: **green**;**font-size**: **large**;**"**>  
 <**div class="article" align="right" style="padding-left**: 200**px**; **width**: 70%;**"**>  
 <**h1**>  
 Welcome to {{ **title** }}!  
 </**h1**>  
 </**div**>  
 <**div class="article" align="right" style="padding-left**: 200**px**; **width**: 30%;**"**>  
 <**a routerLink="/Register"**>Register</**a**>**&nbsp;&nbsp;**<**a routerLink="/Login"**>Login</**a**>**&nbsp;&nbsp;** </**div**>  
  
 <**div style=" width**: 100%;**text-align**: **right**;**height**: 100%;  
**"**>  
<**router-outlet**></**router-outlet**>  
*<!--{{value3 }}-->* </**div**>  
</**div**>  
</**div**>

**Registercomponent.ts**

**import** { Component, OnInit } **from '@angular/core'**;  
**import** { Router } **from '@angular/router'**;  
@Component({  
 **selector**: **'app-register'**,  
 **templateUrl**: **'./register.component.html'**,  
 **styleUrls**: [**'./register.component.css'**]  
})  
**export class** RegisterComponent **implements** OnInit {  
 **user**: **string**;  
 **pass**: **string**;  
 **confpass**: **string**;  
 **public loc3**: **any**;  
 **public res**: **any**;  
 **constructor**(  
 **private router**: Router  
 ) { }  
  
 ngOnInit() {  
 }  
 Show() {  
  
 **this**.**loc3** = {  
 **user**: **this**.**user**,  
 **pass**: **this**.**pass**,  
 **confpass**: **this**.**confpass** };**if** (**this**.**pass** === **this**.**confpass**) {  
 ***localStorage***.clear();  
 ***localStorage***.setItem(**'username'**, **this**.**user**) ;  
 ***localStorage***.setItem(**'password'**, **this**.**pass**) ;  
 *alert*(**'User Successfully registered'**);  
 **this**.**router**.navigateByUrl(**'/Login'**);  
 } **else** {  
 *alert*(**'Password and Confirm Password fields are not matching'**);  
 }  
 }  
}

**Logincomponent.ts**

**import** { Component, OnInit } **from '@angular/core'**;  
**import** { RouterModule, Routes } **from '@angular/router'**;  
**import** { Router } **from '@angular/router'**;  
  
@Component({  
 **selector**: **'app-login'**,  
 **templateUrl**: **'./login.component.html'**,  
 **styleUrls**: [**'./login.component.css'**]  
})  
**export class** LoginComponent **implements** OnInit {  
 **user**: **string**;  
 **pass**: **string**;  
 **title** = **'Food Calories'  
 public loc2**: **any**;  
 **public value1**: **any**;  
 **public value2**: **any**;  
 **public value3**: **any**;  
 **constructor**(**private router**: Router) { }  
  
 ngOnInit() {  
 }  
 Show() {  
  
 **this**.**loc2** = {  
 **user**: **this**.**user**,  
 **pass**: **this**.**pass** };  
 **this**.**value1** = (***localStorage***.getItem(**'username'**));  
 **this**.**value2** = (***localStorage***.getItem(**'password'**));  
 **if** (**this**.**user** === **this**.**value1** && **this**.**pass** === **this**.**value2**) {  
 **this**.**router**.navigateByUrl(**'/Home'**);  
 } **else** {  
 *alert*(**'Wrong Credentials'**);  
 }  
 }  
}

**Homecomponent.ts :**

**import** { Component, OnInit } **from '@angular/core'**;  
**import** { NutritionService } **from '../nutrition.service'**;  
**import** { Router } **from '@angular/router'**;  
  
@Component({  
 **selector**: **'app-home'**,  
 **templateUrl**: **'./home.component.html'**,  
 **styleUrls**: [**'./home.component.css'**],  
 **providers**: [ NutritionService ]  
})  
**export class** HomeComponent **implements** OnInit {  
 **item**: **string**;  
 **public loc1**: **any**;  
 **public url1**: **any**;  
 **public value10**: **any**;  
 **public value12**: **any**;  
  
 **constructor**(  
 **private foodcal**: NutritionService,  
 **private router**: Router ) { }  
 ngOnInit() {  
 }  
 Search() {  
  
 **this**.**loc1** = {  
 **item**: **this**.**item** };  
 **this**.**foodcal**.getCal(**this**.**loc1**.**item**).subscribe(response => {  
 ***console***.log(response);  
 **this**.**value10** = response;  
 });  
 **this**.**url1** = **'https://stream.watsonplatform.net/text-to-speech/api/v1/synthesize?username=f61d1286-72ec-4d67-a0a2-16969a62acac&password=4AmGC8jSSy5G&text='** + **this**.**item** + **''**;  
 }  
 Logout() {  
 **this**.**router**.navigateByUrl(**'/Login'**);  
 }  
}

**Homecomponent.html**

<**div class="image1"**>  
<**div class="header" style="background-image**:**url**(**https://caloriecontrol.org/wp-content/uploads/side1.jpg**);**"**></**div**>  
 <**div *\*ngIf*="url1" style="display**: **none"**>  
 <**audio controls autoplay="autoplay"**>  
 <**source [src]="url1" type="audio/ogg"**>  
 </**audio**>  
 </**div**>  
<**form style="text-align**: **center**;**"**>  
  
 <**div class="form-group" style="padding-left**: 20**px**; **padding-top**: 30**px**;**"**>  
 <**label style="font-size**: **larger**;**color**: **blue**;**"**>Enter food item : </**label**>  
 <**input type="text" name="item" class="form-control" [(ngModel)]="item"**>  
 <**br**>  
 </**div**>  
 <**br**>  
 <**br**>  
 <**div style="padding-left**: 120**px**;**"**>  
 <**button class="btn btn-show" (click)="**Search()**"**>  
 Search</**button**>**&nbsp;&nbsp;&nbsp;&nbsp;** <**button class="btn btn-show" (click)="**Logout()**"**>  
 Logout</**button**>  
 </**div**>  
</**form**>  
  
  
<**br**>  
<**br**>  
<**div style="text-align**: **center**; **font-weight**: **bold**; **color**: **yellow**;**"**>  
 <**label**>Calories : </**label**> {{**value10**.hits[0].**fields**.nf\_calories | json }}  
 <**br**>  
 <**br**>  
 <**label**>Serving weight (gm) : </**label**> {{**value10**.hits[0].**fields**.nf\_serving\_weight\_grams | json }}  
 <**br**>  
 <**br**>  
</**div**>  
  
</**div**>