



# Final Project "GoHealthy"

An e-commerce website.

# Overview

The project consists in a full-stack e-commerce site based on food ordering.

The project includes CRUD (Create, Read, Update, Delete) operations for the products and reviews, obviously the update and the delete methods are going to be accessible only by the administrators of the site. Same thing with the add method for products.

Speaking of administrators and roles, in the project it was implemented the JWT (JSON Web Token) authentication, which provide a better security for the site.

Go Healthy is a restaurant and a fresh food provider. Besides the dish, you can order the ingredients as well, and, if you don't want to order anything you can still look at the recipe attached to every product.

# The overall structure

Here is the structure of the Java packages and classes:

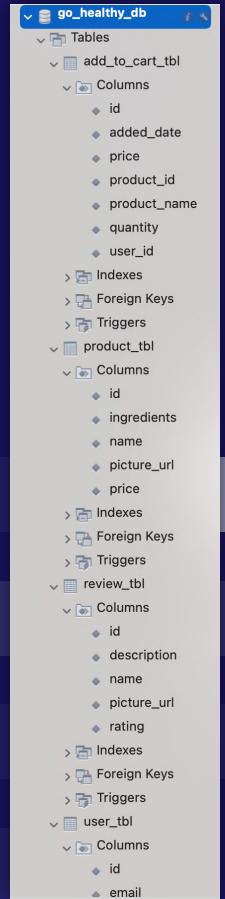
- the controller is responsible for processing the REST API methods.

- the entity class define the object, and create the table in MySql as well.

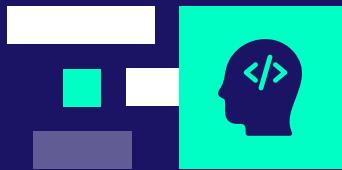
- the service come as an interface and an implementation class, and it is used to write logic separated from controller.

A screenshot of a file explorer window showing the project structure. The root package is 'com.project.goHealthy'. It contains several sub-packages: 'config', 'controller', 'entity', 'exception', 'filter', 'repository', 'service', and 'util'. Each package contains various Java classes, such as 'AppConfig', 'ControllerAdvisor', 'ProductController', 'ReviewController', 'WelcomeController', 'AddToCart', 'AuthRequest', 'Product', 'Reviews', 'User', 'ApiExceptionHandler', 'ErrorItem', 'ErrorResponse', 'NotFoundException', 'ResourceNotFoundException', 'JwtFilter', 'AddCartRepository', 'ProductRepository', 'ReviewRepository', 'UserRepository', 'CartService', 'CartServiceImpl', 'ReviewService', 'ReviewServiceImpl', 'CustomUserDetailsService', 'ProductService', 'ProductServiceImpl', 'JwtUtil', and 'GoHealthyApplication'. There are also 'resources' and 'application.properties' files at the root level.

Here is the structure of the MySql database tables.



# Technologies used



## Angular

The front-end framework used for working with HTML, CSS and TypeScript.



## Java

For the back-end logic.

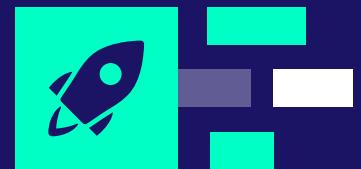
## MySQL Database

The database where all the data (like users data or products data) generated by the back-end is stored.



## Spring Boot

An open-source micro framework, that is used to develop Java applications easily.





The website covers 8 main pages, Home, Menu, Our Story, Reviews, Contact, Log In, Sign In and Cart.

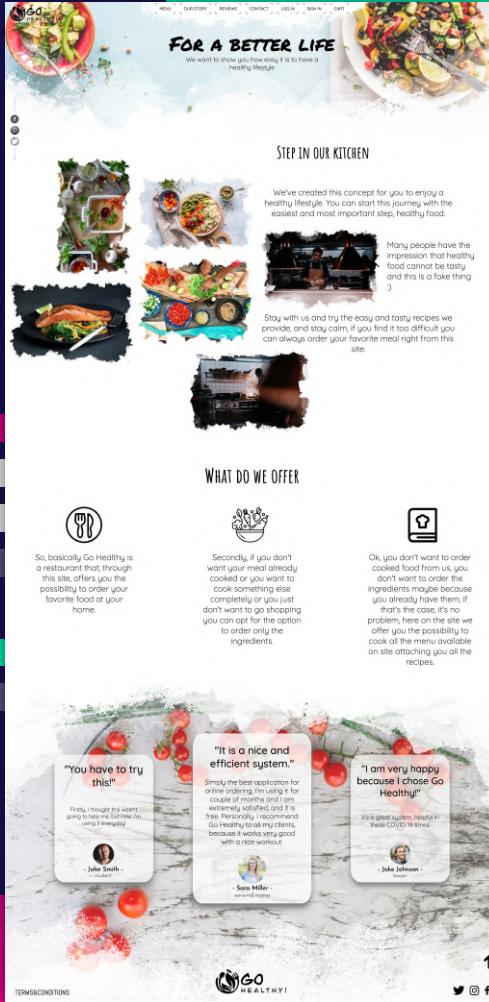
# 01

## Home

# The Home Component - Front-end



This is the first thing that the user sees when he opens the site. This is the first interaction with the app.



# The Home Component - Front-end

Here is the full preview of that page. The Home page is composed of a Header, with the Navbar, Main content with important information, and Footer with reviews and social media buttons.

# In detail

```
/* Menu */

.menu_a {
    position: relative;
    display: inline-block;
    padding: 8px 12px;
    border: 1px solid #111;
    text-transform: uppercase;
    font-family: 'Quicksand', sans-serif;
    color: #111;
    text-decoration: none;
    font-weight: 400;
    font-size: 15px;
}

.menu_a:before {
    content: '';
    position: absolute;
    top: 6px;
    left: -2px;
    width: calc(100% + 4px);
    height: calc(100% - 12px);
    background: #fff;
    transition: 0.5s ease-in-out;
    transform: scale(1);
    transition-delay: 0.5s;
}

.menu_a:hover::before {
    transform: scale(0);
}

.menu_a:after {
    content: '';
    position: absolute;
    left: 6px;
    top: -2px;
    width: calc(100% + 4px);
    height: calc(100% - 12px);
    background: #fff;
    transition: 0.5s ease-in-out;
    transform: scaleX(1);
}

.menu_a:hover::after {
    transform: scale(0);
}

.menu_a_span {
    position: relative;
    z-index: 3;
}
```

```
<body>
<a name="top"></a>
<div class="header">

<div class="logo_container">
<a routerLink="">
    
</a>
</div>
<div class="navbar_photo">
    
</div>
<div class="navbar_buttons">
    <div class="menu">
        <a class="menu_a" routerLink="/menu">
            <span class="menu_a_span">Menu</span>
        </a>
    </div>
    <div class="our_story">
        <a class="our_story_a" routerLink="/our-story">
            <span class="our_story_a_span">Our story</span>
        </a>
    </div>
    <div class="reviews">
        <a class="reviews_a" routerLink="/reviews">
            <span class="reviews_a_span">Reviews</span>
        </a>
    </div>
    <div class="contact">
        <a class="contact_a" routerLink="/contact">
            <span class="contact_a_span">Contact</span>
        </a>
    </div>
    <div class="log_in">
        <a class="log_in_a" routerLink="/log-in">
            <span class="log_in_a_span">Log In</span>
        </a>
    </div>
</div>
```

Here is the animation of the social media buttons.



Here we see a video with the navigation bar buttons, along with a snippet of the HTML and CSS code.



# 02

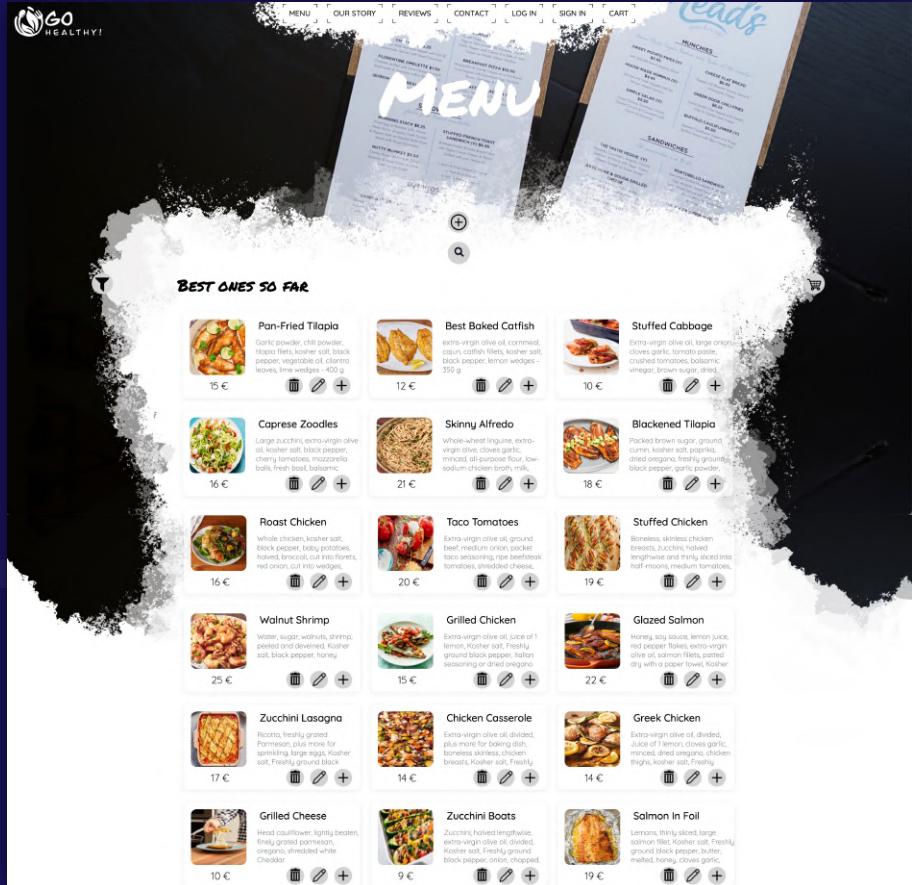
## Menu

# The Menu Component - Front-end

This is the full preview of the menu page.

This page consists in a button for adding a new product, a search bar, and a component that stores the products loaded from the database.

id	ingredients	name	picture_url	price
1	Garlic powder, chili powder, tilapia filets, kosher salt, extra-virgin olive oil, cornmeal, cajun, catfish fillets, large onion, cloves garlic, tarragon, lemon juice, cilantro, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Pan-Fried Tilapia	https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	15
2	extra-virgin olive oil, cornmeal, cajun, catfish fillets, large onion, cloves garlic, tarragon, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Best Baked Catfish	https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	12
3	Extra-virgin olive oil, large onion, cloves garlic, tarragon, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Stuffed Cabbage	https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	10
4	Large zucchini, extra-virgin olive oil, kosher salt, extra-virgin olive oil, cornmeal, cajun, catfish fillets, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Caprese Zoodles	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	16
12	Whole-wheat linguine, extra-virgin olive oil, cloves garlic, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Skinny Alfredo	https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	21
13	Packed brown sugar, ground cumin, kosher salt, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Blackened Tilapia	https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	18
14	Packed brown sugar, ground cumin, kosher salt, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Roast Chicken	https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	16
15	Whole chicken, kosher salt, black pepper, baby carrots, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Taco Tomatoes	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	20
16	Boneless, skinless chicken breasts, zucchini, ham, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Stuffed Chicken	https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	19
17	Water, sugar, walnuts, shrimp, peeled and deveined, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Walnut Shrimp	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	25
18	Extra-virgin olive oil, juice of 1 lemon, Kosher salt, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Grilled Chicken	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	15
19	Honey, soy sauce, lemon juice, red pepper flakes, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Zucchini Lasagna	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	17
20	Ricotta, freshly grated Parmesan, plus more for baking, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Chicken Casserole	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	14
21	Extra-virgin olive oil, divided, plus more for baking, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Greek Chicken	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	14
22	Extra-virgin olive oil, divided, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Grilled Cheese	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	10
23	Head cauliflower, lightly beaten, finely grated parmesan cheese, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Zucchini Boats	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	9
24	Zucchini, halved lengthwise, extra-virgin olive oil, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g	Salmon In Foil	https://hips.hearstapps.com/del.h-cdn.co/assets/1561935526458-best-baked-catfish-1561935526458.jpg?crop=1.0x1.0	19
25	Lemons, thinly sliced, large salmon fillet, Kosher salt, lime wedges, black pepper, vegetable oil, cilantro leaves, lime wedges - 400 g			
NULL	NULL			

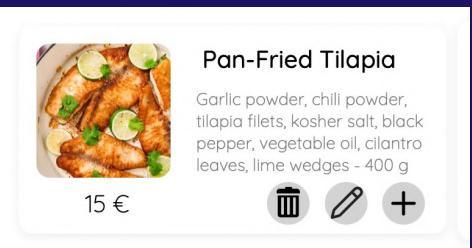


# In detail



```
@Pipe({
  name: 'searchFilter'
})
export class SearchFilterPipe implements PipeTransform {
  transform(list: any[], filterText: string): any {
    return list ? list.filter(item => item.name.search(new RegExp(filterText, 'i')) > -1) : [];
  }
}
```

Here is the search option in action, along with the pipe used for searching filter.



```
.products-container {
  position: absolute;
  top: 147px;
  /* background-color: lightgray; */
  width: 1111px;
  height: 1080px;
}

.product-card {
  position: relative;
  display: inline-block;
  box-shadow: 0 0 0 0.08px 2px 8px 0px;
  background-color: #rgba(255, 255, 255, 0.5);
  width: 350px;
  height: 178px;
  overflow: hidden;
  margin-right: 10px;
  margin-bottom: 10px;
  transition: 0.3s;
}
.product-card:hover {
  transform: scale(1.1);
}

.photo-container {
  position: absolute;
  height: 110px;
  width: 110px;
  border-radius: 10px;
  margin: 4px;
  /* background-color: lightgray; */
  overflow: hidden;
}

.product-cover {
  position: relative;
  height: 110px;
  width: 110px;
}

.product-card-main {
  position: absolute;
  /* background-color: lightgray; */
  width: 60%;
  height: 73%;
  right: 0;
}

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.product-card-main {
  position: absolute;
  /* background-color: lightgray; */
  width: 60%;
  height: 73%;
  right: 0;
}
```

This is the product card, with the video on the left and the code for that card on the top. This card is created for every product with the help of the \*ngFor iteration.

# CRUD operations

## - Front-end

```
constructor(
  private activatedRoute: ActivatedRoute,
  private httpClient: HttpClient,
  private formBuilder: FormBuilder,
  private router: Router,
  private productService: ProductServiceService) { }

ngOnInit(): void {
  console.log(this.activatedRoute.snapshot.params.id);

  const id = this.activatedRoute.snapshot.params.id;
  this.httpClient.get<AddProduct>(`http://localhost:8080/menu/findById?id=${id}`).subscribe(response => {
    console.log(response);
    this.myForm.patchValue(response);
  });

  update() {
    const id = this.activatedRoute.snapshot.params.id;
    this.httpClient.put<AddProduct>(`http://localhost:8080/menu/update/${id}`, this.myForm.value).subscribe(response => {
      console.log(response);
      this.productService.getAllProducts().subscribe(response => {
        this.products = response;
      });
    });
    this.router.navigate(['/menu']);
  }
}
```

The update method.

```
ngOnInit(): void {
  this.productService.getAllProducts().subscribe(
    response => this.handleSuccessfulResponse(response),
  );
}

handleSuccessfulResponse(response) {
  this.products = response;
}

deleteProduct(id: number) {
  const confirmed = confirm("Are you sure you want to delete this product?");
  if (confirmed) {
    this.httpClient.delete(`http://localhost:8080/menu/delete?id=${id}`).subscribe(response => {
      console.log("deleted");
      this.productService.getAllProducts().subscribe(response => {
        this.products = response;
      });
    });
  }
}
```

The getAll,  
create  
and findBy  
methods.

```
public productName: string;

constructor(private http: HttpClient) { }

public getAllProducts() {
  console.log("test call products");
  return this.http.get<AddProduct[]>(`http://localhost:8080/menu/`);
}

public createProduct(product: any) {
  return this.http.post<AddProduct>(`http://localhost:8080/menu/create`, product);
}

public findById(id: any) {
  return this.http.get<AddProduct>(`http://localhost:8080/menu/findById?id=${id}`);
}

public delete(id: number) {
  const confirmed = confirm("Are you sure you want to delete this product?");
  if (confirmed) {
    this.httpClient.delete(`http://localhost:8080/menu/delete?id=${id}`);
  }
}

public findByNameContaining(name: string) {
  return this.http.get<AddProduct[]>(`http://localhost:8080/menu/findByNameContaining?name=${name}`);
}
```

The delete  
method.

```
const routes: Routes = [
{
  path: '',
  component: HomePageComponent,
  pathMatch: 'full'
},
{
  path: 'menu',
  component: MenuPageComponent
},
{
  path: 'our-story',
  component: OurStoryPageComponent
},
{
  path: 'reviews',
  component: ReviewsPageComponent
},
{
  path: 'contact',
  component: ContactPageComponent
},
{
  path: 'log-in',
  component: LogInPageComponent
},
{
  path: 'sign-in',
  component: SignInPageComponent
},
{
  path: 'cart',
  component: CartPageComponent
},
{
  path: 'log-in-after-register',
  component: LogInAfterRegisterComponent
},
{
  path: 'add-product',
  component: AddProductComponent
},
{
  path: 'products/:id',
  component: EditProductComponent
},
{
  path: 'add-review',
  component: AddReviewComponent
}
];
```

The routing module.

```
products: AddProduct[];
public cart: boolean = false;
public filter: boolean = false;

constructor(
  private productService: ProductServiceService) { }

ngOnInit() {
  this.productService.getAllProducts().subscribe(
    response =>this.handleSuccessfulResponse(response),
  );
}

handleSuccessfulResponse(response) {
  this.products=response;
}
```

The model class of the "product" object.

The app module class

```
export class AddProduct {
  id: string;
  name: string;
  price: string;
  pictureUrl: string;
  ingredients: string;
}
```

```
@NgModule({
  declarations: [
    AppComponent,
    HeaderComponent,
    MainContentComponent,
    FooterComponent,
    BottomFooterComponent,
    OurStoryPageComponent,
    MenuPageComponent,
    ReviewsPageComponent,
    ContactPageComponent,
    LogInPageComponent,
    SignInPageComponent,
    NavbarComponent,
    HomePageComponent,
    CartPageComponent,
    LogInAfterRegisterComponent,
    ProductCardComponent,
    AddProductComponent,
    ReviewCardComponent,
    EditProductComponent,
    SearchFilterPipe,
    AddReviewComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    HttpClientModule,
    FormsModule,
    ReactiveFormsModule
  ],
  providers: [
    JwtClientService,
    AlwaysAuthGuard],
  bootstrap: [AppComponent]
})
export class AppModule {}
```

## The Controller class responsible for creating endpoints.

```
@PostMapping(value = "/create")
public ResponseEntity<Product> create(@RequestBody Product product) {
    return ResponseEntity.ok(productService.create(product));
}

@GetMapping(value = "/getAllProducts")
public ResponseEntity<List<Product>> getAllProducts() {
    return ResponseEntity.ok(productService.getAllProducts());
}

@GetMapping(value = "/")
public ResponseEntity<List<Product>> getAllProductsPaginated(
        @RequestParam(defaultValue = "0") Integer pageNumber,
        @RequestParam(defaultValue = "50") Integer pageSize,
        @RequestParam(defaultValue = "id") String sortBy) {
    return ResponseEntity.ok(productService.getAllProductsPaginated(pageNumber, pageSize, sortBy));
}

@GetMapping(value = "/findByName")
public ResponseEntity<Product> findByName(@RequestParam String name) {
    return ResponseEntity.ok(productService.findByName(name).orElseThrow(() -> new ProductNotFoundException("Product with name <" + name + "> not found")));
}

@GetMapping(value = "/findById")
public ResponseEntity<Product> findById(@RequestParam Integer id) {
    return ResponseEntity.ok(productService.findById(id).orElseThrow(() -> new ProductNotFoundException("Product with id <" + id + "> not found")));
}

@PutMapping(value = "/update/{id}")
public ResponseEntity<Product> update(
        @RequestBody Product product,
        @PathVariable("id") Integer id) {

    Optional<Product> productData = productService.findById(id);

    if (productData.isPresent()) {
        Product productToBeChanged = productData.get();
        productToBeChanged.setName(product.getName());
        productToBeChanged.setIngredients(product.getIngredients());
        productToBeChanged.setPrice(product.getPrice());
        productToBeChanged.setPictureUrl(product.getPictureUrl());
        return ResponseEntity.ok(productService.save(productToBeChanged), HttpStatus.OK);
    } else {
        return ResponseEntity.notFound().build();
    }
}
```

The model according to the object "product".

```
@Data
@Entity
@NoArgsConstructor
@AllArgsConstructor
@Getter
@Setter
@Table(name = "PRODUCT_TBL")
public class Product {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Integer id;

    @Column
    private String name;

    @Column
    private Double price;

    @Column
    private String pictureUrl;

    @Column
    private String ingredients;
}
```

```
public interface ProductRepository extends PagingAndSortingRepository<Product, Integer> {

    Optional<Product> findByName(String name);

    List<Product> findByNameContaining(String name);
}
```

The repository.

# CRUD operations – Back-end

```
public interface ProductService {  
  
    Product create(Product product);  
  
    List<Product> getAllProducts();  
  
    List<Product> getAllProductsPaginated(Integer pageNumber, Integer pageSize, String sortBy);  
  
    Optional<Product> findByName(String name);  
  
    Optional<Product> findById(Integer id);  
  
    Product save(Product product);  
  
    Product update(Product product, Integer id);  
  
    void delete(Integer id);  
  
    List<Product> getByNameContaining(String name);  
}
```

```
@Override  
public Product create(Product product) {  
    return productRepository.save(product);  
}  
  
@Override  
public List<Product> getAllProducts() {  
    return (List<Product>) productRepository.findAll();  
}  
  
@Override  
public List<Product> getAllProductsPaginated(Integer pageNumber, Integer pageSize, String sortBy) {  
    Pageable pageable = PageRequest.of(pageNumber, pageSize, Sort.by(sortBy));  
    Page<Product> productPage = productRepository.findAll(pageable);  
    return productPage.getContent();  
}  
  
@Override  
public Optional<Product> findByName(String name) { return productRepository.findByName(name); }  
  
@Override  
public Optional<Product> findById(Integer id) { return productRepository.findById(id); }  
  
@Override  
public Product save(Product product) { return productRepository.save(product); }  
  
@Override  
public Product update(Product product, Integer id) { return productRepository.save(product); }  
  
@Override  
public void delete(Integer id) {  
    Optional<Product> product = productRepository.findById(id);  
  
    if (product.isPresent()) {  
        productRepository.deleteById(id);  
    } else {  
        throw new ProductNotFoundException("Product with id " + id + " not found.");  
    }  
}  
  
@Override  
public List<Product> getByNameContaining(String name) {  
    return productRepository.findByNameContaining(name);  
}
```

# The Service interface and class for the product object

# 03

## Our Story

## OUR STORY

## WHO ARE WE

Located in the heart of Los Angeles on bustling San Jose Avenue, Go Healthy serves authentic cuisine with innovative twists on centuries-old recipes.

Connecting people to place through contemporary healthy cuisine, Go Healthy crafts inspired dishes reflective of our country's diverse landscape, history and culture. Our chefs work closely with farmers and suppliers to source the finest ingredients from across the nation. With over 20 years of culinary history.



## THE FOUNDERS

## JAMES SMITH

James Smith realized his culinary vision at his first eponymous restaurant, in the very heart of downtown Vancouver. At Hawksworth Restaurant, which opened in 2011, he has created the ideal setting to deliver compelling contemporary Canadian cuisine.

## DAVID JONES

After prestigious stints on the Miami, San Fran and Toronto culinary scenes, Chef David settled in Vancouver at Hawksworth as Senior Sous Chef before taking the helm at Botanist. Under his direction, Botanist has been named one of Canada's 50 Best Restaurants.

## RICHARD BROWN

Originally hailing from Paris, France, this globetrotter has been in the hospitality industry for over a decade, working alongside internationally celebrated chefs including Jean Georges, Nobu Matsuhisa and Justin Quek.

## The Our Story Page

```

</div>
<div class="founders-description-container">
  <div class="f-d-1">
    James Smith realized his culinary vision at his first eponymous restaurant, in the very heart of downtown Vancouver. At Hawksworth Restaurant, which opened in 2011, he has created the ideal setting to deliver compelling contemporary Canadian cuisine.
  </div>
  <div class="f-d-2">
    After prestigious stints on the Miami, San Fran and Toronto culinary scenes, Chef David settled in Vancouver at Hawksworth as Senior Sous Chef before taking the helm at Botanist. Under his direction, Botanist has been named one of Canada's 50 Best Restaurants.
  </div>
  <div class="f-d-3">
    Originally hailing from Paris, France, this globetrotter has been in the hospitality industry for over a decade, working alongside internationally celebrated chefs including Jean Georges, Nobu Matsuhisa and Justin Quek.
  </div>
</div>
<div class="our-story-footer">
  

  <div class="bottom-footer">
    <a href="#"><div class="terms_and_conditions">terms&conditions</div></a>
    <div class="footer_logo">
      <a routerLink="#">
        
      </a>
    </div>
    <div class="footer_social_media">
      <div class="f_logo">
        <a href="#"></a>
      </div>
      <div class="i_logo">
        <a href="#"></a>
      </div>
      <div class="t_logo">
        <a href="#"></a>
      </div>
    </div>
    <div class="up">
      <a href="#"></a>
    </div>
  </div>
</div>
</body>

```

```

.founders-name-container {
  position: absolute;
  /* background-color: grey; */
  width: 90%;
  top: 20%;
  height: 5%;
  left: 5%;
  display: flex;
  justify-content: space-between;
}

.f1, .f2, .f3 {
  width: 20%;
  height: 100%;
  /* background-color: darkgray; */
  font-family: 'Amatic SC', cursive;
  font-size: 40px;
  text-align: center;
}

.founders-description-container {
  position: absolute;
  /* background-color: grey; */
  width: 100%;
  height: 60%;
  bottom: 0;
  display: flex;
  justify-content: space-between;
}

.f-d-1, .f-d-2, .f-d-3 {
  width: 30%;
  height: 100%;
  left: 3%;
  /* background-color: darkgray; */
  font-family: 'Quicksand', sans-serif;
  text-align: center;
  font-size: 30px;
  font-weight: 300;
}

.our-story-footer {
  position: absolute;
  background-color: #lightgray;
  width: 100vw;
  top: 180%;
}

.footer-img {
  width: 100%;
}

```

The Our Story page contains information like who are the founders of the restaurant, or what is the goal they want to achieve.

Here are a part of the HTML and CSS of this page.

# 04

## Reviews



MENU OUR STORY REVIEWS CONTACT LOG IN SIGN IN CART

# REVIEWS

REVIEWS HELP US TO IMPROVE OUR OVERALL SERVICES  
AND OUR FOOD

YOU CAN LEAVE A REVIEW WHENEVER YOU  
WANT



Joseff Lugo

It's a great experience. The atmosphere is very welcoming and charming. A variety of wines, food and service. Staff are extremely knowledgeable and make great recommendations.

Rating: 4 / 5



Brayden Ruiz

This cozy restaurant has left the best impression! Hospitality hosts, delicious dishes, beautiful presentation, wide wine list and wonderful dessert.

Rating: 5 / 5



Ayah Leon

This place is great! Atmosphere is chill and cool but the staff is also really friendly.

Rating: 2 / 5



Pranav Torres

Excellent food. Menu is extensive and seasonal to a particularly high standard. Definitely fine dining.

Rating: 4 / 5



Zoya Weir

It can be expensive but worth it and they do different deals on different nights so it's worth checking them out before you book. Highly recommended.

Rating: 4 / 5



Jamie Sampson

Excellent food. Menu is extensive and seasonal to a particularly high standard. Definitely fine dining.

Rating: 5 / 5



Ayden Dodson

We are so fortunate to have this place just a few minutes drive away from home. Food is stunning, both the tops and downstairs restaurant.

Rating: 4 / 5



Yolanda Raymond

Cocktails wow, wine great and lovely selection of beers. Love this place and will continue to visit.

Rating: 5 / 5

# The Reviews Component - Front-end

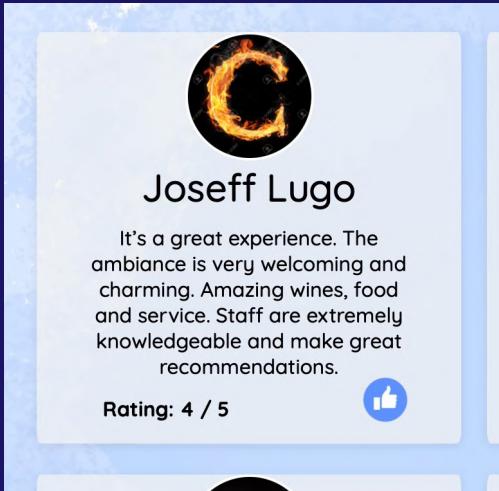
The Reviews page serves for customers to leave their feedback. Like the "Product" object, in the Reviews page are implemented the CRUD methods.

# In detail

YOU CAN LEAVE A REVIEW WHENEVER YOU WANT

```
<div class="reviews-container">
  <div class="review-card" *ngFor="let review of reviews">
    <div class="photo-container">
      <img class="review-cover" [src]="review.pictureUrl" alt="">
    </div>
    <div class="review-card-main">
      <div class="review-name">{{ review.name }}</div>
      <div class="review-description">{{ review.description }}</div>
    </div>
    <div class="review-card-footer">
      <div class="review-rating">Rating: {{ review.rating }} / 5</div>
      <button class="review-like-button">
        
      </button>
    </div>
  </div>
</div>
```

Here are some details from the Reviews page, down it's a video of the review card Design, and on the left is displayed the HTML code from the same card.



```
.review-description {
  position: absolute;
  /* background-color: darkgray; */
  font-family: "Quicksand", sans-serif;
  width: 100%;
  height: 70%;
  bottom: 0;
  text-align: center;
  /* line-height: 100px; */
}

.review-card-footer {
  position: absolute;
  width: 80%;
  height: 15%;
  /* background-color: lightgray; */
  right: 10%;
  bottom: 1%;
}

.review-like-button {
  position: absolute;
  height: 30px;
  width: 30px;
  border: 0;
  cursor: pointer;
  right: 0;
  bottom: 10%;
  background-color: transparent;
}

/* .review-like-button:hover {
  transform: scale(1.2);
} */

.review-like-photo {
  position: absolute;
  height: 50px;
  width: 50px;
  bottom: 1px;
  right: 4%;
  /* transition: all 1s ease-in-out, height 0ms; */
  transition: transform 1s;
}

.review-like-photo:hover {
  /* transform: scale(1.2) rotate(-30deg); */
  transform: scale(1.2) rotate(1080deg);
}
```

# Review Angular Service, the create new Review and get all Reviews method

```
constructor(private http: HttpClient) { }

public getAllReviews() {
  console.log("test call reviews");
  return this.http.get<AddReview[]>("http://localhost:8080/reviews/getAllReviews");
}

public createReview(review: any) {
  return this.http.post<AddReview>("http://localhost:8080/reviews/create", review);
}
```

```
onSubmit() {
  this.reviewService.createReview(this.review).subscribe(data => {
    this.response = data;
  });

  this.router.navigate(['/reviews']);
}
```

```
export class AddReview {

  id: string;
  name: string;
  pictureUrl: string;
  description: string;
  rating: string;
}
```



MENU | OUR STORY | REVIEWS | CONTACT | LOG IN | SIGN IN | CART

# CONTACT US

## GET IN TOUCH WITH US

If you have any problems related to us, or requests, or you simply wanna leave a feedback, here is the place where you can do that.

NAME

EMAIL

CONTACT NO

MESSAGE

[SEND](#) [CANCEL](#)

## GENERAL INFORMATIONS

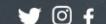
Mail: gohealthy@yahoo.com  
Phone: +1-555-8099-004  
GO HEALTHY LLC

California, San Jose  
3877 Driftwood Road  
95129

ESTABLISHED IN 2014



[TERMS&CONDITIONS](#)



The Contact page has all the information about the location, and an embedded map for easy orientation.

Besides that, on the left, it's a form for the client to contact the restaurant, and when the user clicks on send, it will pop up a page for the mail to be sent.

# The Contact Component - Front-end

# GET IN TOUCH WITH US

If you have any problems related to us, or requests, or you simply wanna leave a feedback, here is the place where you can do that.

NAME  

EMAIL

CONTACT NO

MESSAGE

Here is a video of the form and the animated buttons, and, at the opposite Side, It's the HTML code for de location and map part, and the CSS code for the Send button.

```
/* Send Button */

.send_button {
    background: transparent;
    position: absolute;
    top: 110%;
    right: 23%;
    border: 2px solid #111111;
    padding: 10px 30px;
    overflow: hidden;
}

.send_button:hover::before {
    opacity: 1;
    transform: translate(0,0);
}

.send_button::before {
    content: attr(data-hover);
    position: absolute;
    top: 1.1em;
    left: 0.2em;
    width: 100%;
    text-transform: uppercase;
    letter-spacing: 3px;
    font-weight: 800;
    font-size: .8em;
    opacity: 0;
    transform: translate(-100%,0);
    transition: all .3s ease-in-out;
}

.send_button:hover div {
    opacity: 0;
    transform: translate(100%, 0);
}

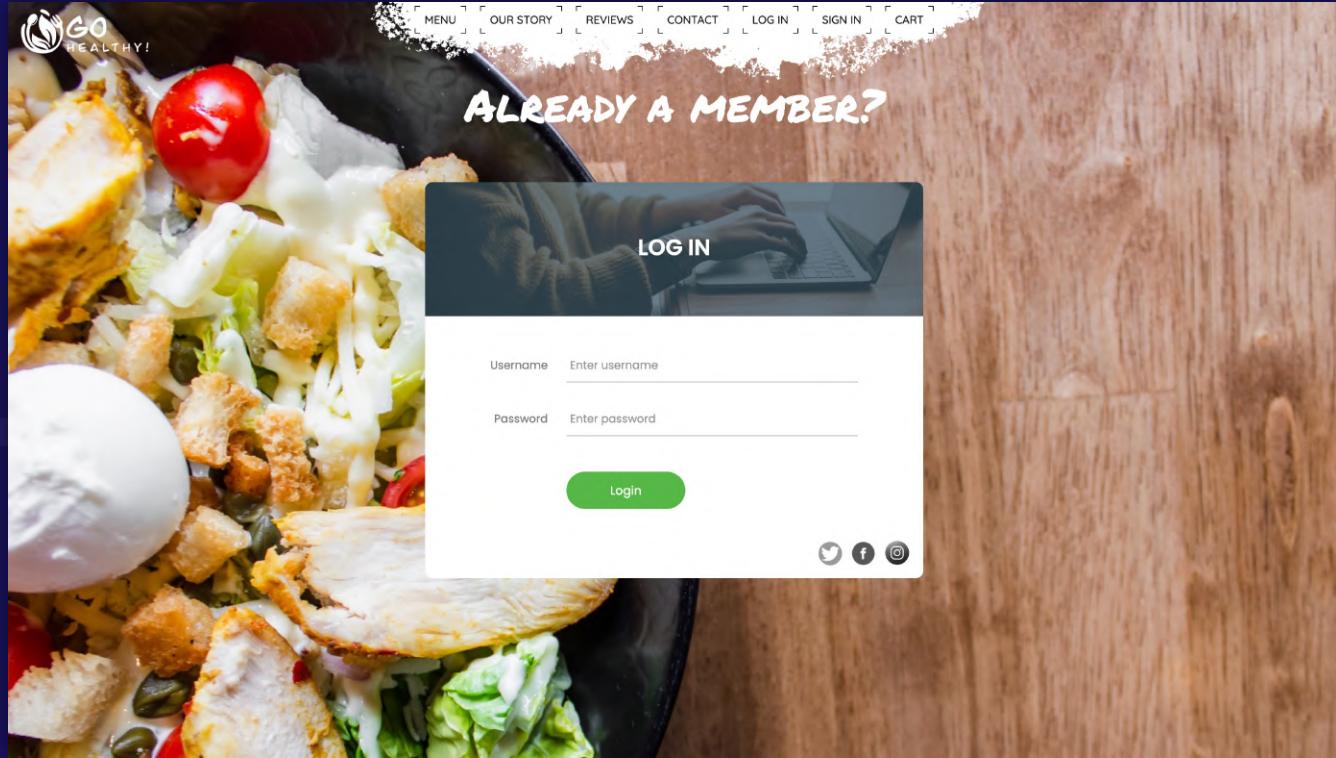
.send_button div{
    text-transform: uppercase;
    letter-spacing: 3px;
    font-weight: 800;
    font-size: .8em;
    transition: all .3s ease-in-out;
}

<div class="contact_break_line"></div>
<div class="general_informations">
    <div class="general_informations_title">General informations</div>
    <div class="informations">
        <div class="mail">Mail: gohealthy@yahoo.com</div>
        <div class="phone">Phone: +1-555-8999-004</div>
        <div class="company_name">GO HEALTHY LLC</div>
        <div class="established">Established in 2014</div>
        <div class="where">
            <div class="state">California, San Jose</div>
            <div class="address">3877 Driftwood Road</div>
            <div class="zip">95129</div>
        </div>
    </div>
    <div class="map">
        <iframe src="https://www.google.com/maps/embed?pb=!1m18!1m1!1m3!1d3173.858560" width="682" height="265" style="border: 0" allowfullscreen="" loading="lazy"></iframe>
    </div>
</div>
<div class="contact_footer">
    <div class="footer_photo">
        
    </div>
    <div class="footer_links">
        <a href="#"><div class="terms_and_conditions">terms&conditions</div></a>
        <div class="footer_logo">
            <a router>
                
            </a>
        </div>
        <div class="footer_social_media">
            <div class="f_logo">
                <a href="#"></a>
            </div>
            <div class="i_logo">
                <a routerLink="#"></a>
            </div>
            <div class="t_logo">
                <a href="#"></a>
            </div>
        </div>
    </div>
</div>
```

# 06

## Log In

# The Log In Component – Front-end

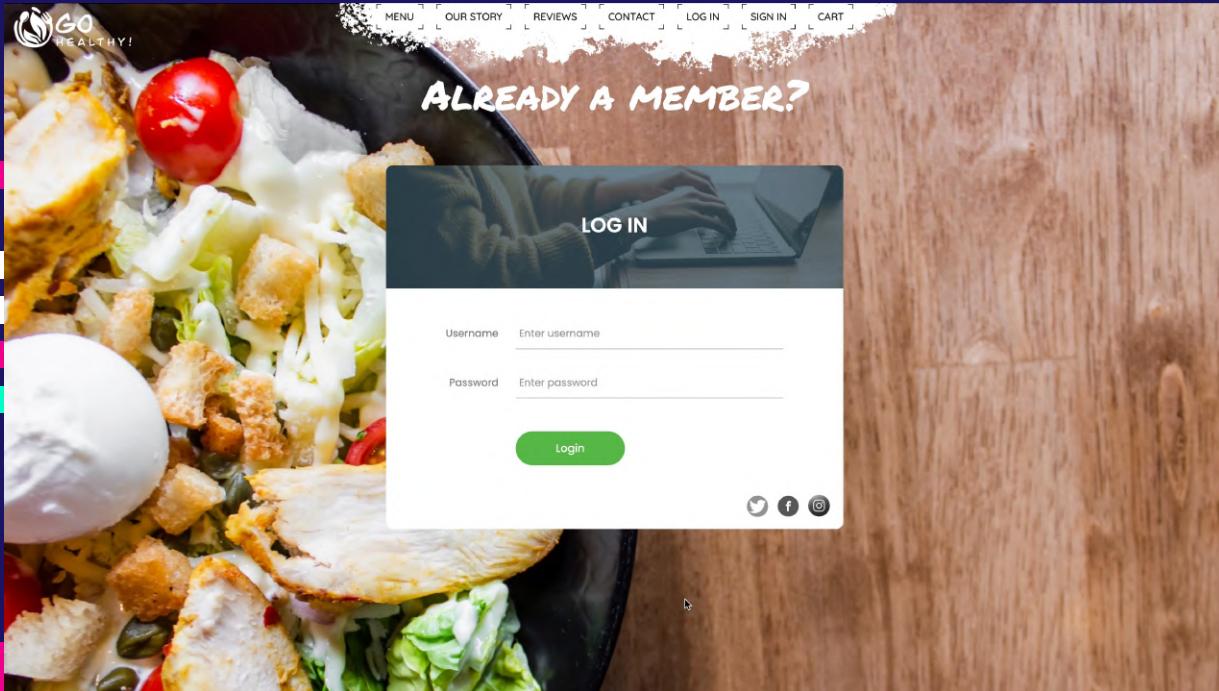


The authentication on this project was done with the JWT Token, which is a more secure way to log in.

When you submit a username and a password, and if they are correct, it will be generated an unique token formed by 3 parts.

With that token, the app will know if the client is already registered and in that case it will redirect him to the Home page, and if not, he would have to register first, and then log in.

# In detail



Here is a video of that form used for login, and on the right side, it is the HTML code for that form.

```
<div class="limiter">
<div class="container-login100">
<div class="wrap-login100">
<div
  class="login100-form-title"
  style="background-image: url(/assets/images/login2.jpg)">
  <span class="login100-form-title-1"> Log In </span>
</div>

<form class="login100-form validate-form" role="form">
<div
  class="wrap-input100 validate-input m-b-26"
  data-validate="Username is required">
  <span class="label-input100">Username</span>
  <input
    class="input100"
    [(ngModel)]="username"
    type="text"
    name="username"
    placeholder="Enter username"
  />
  <span class="focus-input100"></span>
</div>

<div
  class="wrap-input100 validate-input m-b-18"
  data-validate="Password is required">
  <span class="label-input100">Password</span>
  <input
    class="input100"
    [(ngModel)]="password"
    type="password"
    name="pass"
    placeholder="Enter password"
  />
  <span class="focus-input100"></span>
</div>

<div class="container-login100-form-btn">
  <button class="login100-form-btn" (click)="logIn()">Login</button>
</div>
</form>
```

```
export class UserSignIn {  
  id: string;  
  username: string;  
  email: string;  
  password: string;  
}  
 
```

```
export class JwtClientService {  
  
  private httpOptions = {  
    headers: new HttpHeaders({ 'Content-Type': 'application/json' }),  
    responseType: "text" as "json",  
    withCredentials: true,  
    observe: 'response' as 'response'  
  };  
  
  constructor(private http:HttpClient) {}  
  
  public generateToken(request): Observable<any> {  
    return this.http.post<any>("http://localhost:8080/authenticate", request, this.httpOptions);  
  }  
  
  public welcome(token): Observable<any> {  
    let tokenStr = 'Bearer ' + token;  
    const headers = new HttpHeaders().set("Authorization", tokenStr);  
    return this.http.get("http://localhost:8080/", {headers, responseType: 'text' as 'json'});  
  }  
  
  public register(user: any): Observable<UserSignIn> {  
    return this.http.post<UserSignIn>("http://localhost:8080/register", user);  
  }  
}
```

# The entity, the login method, the service for the user, and the generate token request.

A good thing to be mentioned is the fact that after the token got generated, it will be stored in an HTTP-only cookie, to prevent access to him.

```
export class LogInPageComponent implements OnInit {  
  
  token: String;  
  username: String;  
  password: String;  
  user: any;  
  
  @Input() titleName: string = 'Already\na\nmember?';  
  
  constructor(public authService: JwtClientService, public router: Router) {}  
  
  ngOnInit(): void {}  
  
  public logIn(): void {  
    this.user = {  
      "username": this.username,  
      "password": this.password  
    };  
    let response = this.authService.generateToken(this.user);  
    response.subscribe(data => {  
      if (data.body == 'true') {  
        this.router.navigate(["/"]);  
      }  
    },(err) => {  
      console.log(err.status);  
    })  
  }  
}
```

All Storage	Application Cache		Cookies
Cookies — localhost			
Local Storage — localhost			
Session Storage — localhost			

Name	Value	Domain
Token	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ0ZXN0IiwidXhwIjoxNjI0M... eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ0ZXN0IiwidXhwIjoxNjI0M...	localhost

# The Log In Component

## - Back-end

The Controller Advisor class provides the method that returns an exception if the product is not found.

```
@ControllerAdvice  
public class ControllerAdvisor extends ResponseEntityExceptionHandler {  
  
    @ExceptionHandler(ProductNotFoundException.class)  
    public ResponseEntity<Object> handleProductNotFoundException(ProductNotFoundException exception) {  
        Map<String, Object> body = new LinkedHashMap<>();  
        body.put("timestamp", LocalDateTime.now());  
        body.put("message", exception.getLocalizedMessage());  
        return new ResponseEntity<>(body, HttpStatus.NOT_FOUND);  
    }  
}
```

```
@SpringBootApplication  
@EntityScan("com.project.goHealthy.entity")  
@EnableJpaRepositories("com.project.goHealthy.repository")  
@ComponentScan("com.project.goHealthy")  
@Import({SecurityConfig.class})  
public class AppConfig {  
}
```

The AppConfig class for the application, that scan all the entities.

```
@SpringBootApplication  
@CrossOrigin(origins = "*")  
public class GoHealthyApplication {  
  
    private UserRepository userRepository;  
  
    private ProductRepository productRepository;  
  
    @Autowired  
    public GoHealthyApplication(UserRepository userRepository, ProductRepository productRepository) {  
        this.userRepository = userRepository;  
        this.productRepository = productRepository;  
    }  
  
    @Bean  
    public WebMvcConfigurer corsConfigurer() {  
        return addCorsMappings(registry) -> {  
            registry.addMapping(pathPattern: "/")  
                .allowedHeaders("*")  
                .allowedMethods("*")  
                .allowedOriginPatterns("*")  
                .allowCredentials(true);  
        };  
    }  
  
    public static void main(String[] args) { SpringApplication.run(GoHealthyApplication.class, args); }  
}
```

The Spring application class, that run the code.

The entity for the “User” object. Besides that, with the help of this class, it is created the table in the MySql Database.

```
@Data  
@AllArgsConstructor  
@NoArgsConstructor  
@Setter  
@Getter  
@Entity  
@Table(name = "USER_TBL")  
public class User {  
  
    @Id  
    @GeneratedValue(strategy = GenerationType.IDENTITY)  
    private int id;  
  
    @Column  
    private String username;  
  
    @Column  
    private String password;  
  
    @Column  
    private String email;  
}
```

The Custom Details Service class, responsible for the loadUserByUsername method.

```
public interface UserRepository extends JpaRepository<User, Integer> {  
  
    User findByUsername(String username);  
}
```

The User Repository that extends the Jpa Repository.

# The Log In Component - Back-end - User Configuration

```
@Service  
public class CustomUserDetailsService implements UserDetailsService {  
  
    private final UserRepository repository;  
  
    @Autowired  
    public CustomUserDetailsService(UserRepository repository) { this.repository = repository; }  
  
    @Override  
    public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException {  
        User user = repository.findByUsername(username);  
        return new org.springframework.security.core.userdetails.User(user.getUsername(), user.getPassword(), new ArrayList<>());  
    }  
}
```

# The Log In Component - Back-end - Security

```
@PostMapping(value = "/authenticate")
public boolean generateToken(@RequestBody AuthRequest authRequest, HttpServletResponse response) throws Exception {
    try {
        authenticationManager.authenticate(
            new UsernamePasswordAuthenticationToken(authRequest.getUsername(), authRequest.getPassword())
        );
    } catch (Exception ex) {
        throw new Exception("invalid username/password");
    }
    String token = jwtUtil.generateToken(authRequest.getUsername());
    Cookie cookie = new Cookie( name: "Token", token);
    cookie.setHttpOnly(true);
    cookie.setMaxAge(-1);
    cookie.setPath("/");
    cookie.setSecure(false);
    response.addHeader("Access-Control-Allow-Headers", "http://localhost:4200");
    response.addCookie(cookie);
    return true;
}
```

The authenticate method from User Controller, which verifies in the first part if the credentials are correct, and then authenticate the user, and at the end of the method it moves the generated token to an HTTP-only cookie.

The SecurityConfig class overrides some of the WebSecurityConfigurerAdapter methods. Besides that, it uses the method passwordEncoder to save passwords directly encoded in the database. This way, not even the administrator will be able to see the passwords.

```
@Configuration
@EnableWebSecurity
public class SecurityConfig extends WebSecurityConfigurerAdapter {

    @Autowired
    private DataSource dataSource;

    @Autowired
    private CustomUserDetailsService userDetailsService;

    @Autowired
    private JwtFilter jwtFilter;

    @Override
    protected void configure(AuthenticationManagerBuilder auth) throws Exception {
        auth.userDetailsService(userDetailsService).passwordEncoder(passwordEncoder());
        auth.jdbcAuthentication().dataSource(dataSource);
    }

    @Bean
    public PasswordEncoder passwordEncoder() { return new BCryptPasswordEncoder(); }

    @Bean(name = BeanIds.AUTHENTICATION_MANAGER)
    @Override
    public AuthenticationManager authenticationManagerBean() throws Exception {
        return super.authenticationManagerBean();
    }

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.cors().disable();
        http.csrf().disable().authorizeRequests().antMatchers( ...antPatterns: "/**" ) .ExpressionUrlAuthorizationConfigurer<HttpSecurity>.AuthorizedUrl
            .permitAll().antMatchers(HttpMethod.OPTIONS, ...antPatterns: "/**" )
            .permitAll().anyRequest().authenticated() .ExpressionUrlAuthorizationConfigurer<HttpSecurity>.ExpressionInterceptUrlRegistry
            .and().exceptionHandling().and().sessionManagement() .SessionManagementConfigurer<HttpSecurity>
            .sessionCreationPolicy(SessionCreationPolicy.STATELESS);
        http.addFilterBefore(jwtFilter, UsernamePasswordAuthenticationFilter.class);
    }
}
```

```

private String createToken(Map<String, Object> claims, String subject) {
    return Jwts.builder().setClaims(claims).setSubject(subject).setIssuedAt(new Date(System.currentTimeMillis()))
        .setExpiration(new Date(System.currentTimeMillis() + 1000 * 60 * 60 * 10))
        .signWith(SignatureAlgorithm.HS256, secret).compact();
}

public Boolean validateToken (String token, UserDetails userDetails) {
    final String username = extractUserName(token);
    return (username.equals(userDetails.getUsername()) && !isTokenExpired(token));
}

```

The JwtFilter is a custom filter that was made to run first, compared to the already implemented Spring filters.

# The LogIn Component - Back-end - JWT Token

The createToken and the validateToken methods from JwtUtil.

```

@Component
public class JwtFilter extends OncePerRequestFilter {

    private final JwtUtil jwtUtil;

    private final CustomUserDetailsService service;

    @Autowired
    public JwtFilter(JwtUtil jwtUtil, CustomUserDetailsService service) {
        this.jwtUtil = jwtUtil;
        this.service = service;
    }

    @Override
    protected void doFilterInternal(
        HttpServletRequest httpServletRequest,
        HttpServletResponse httpServletResponse,
        FilterChain filterChain) throws ServletException, IOException {
        String token = null;
        String userName = null;
        String authorizationHeader = httpServletRequest.getHeader("Authorization");
        if (authorizationHeader != null && authorizationHeader.startsWith("Bearer ")) {
            token = authorizationHeader.substring(7);
            userName = jwtUtil.extractUserName(token);
        }

        if (userName != null && SecurityContextHolder.getContext().getAuthentication() == null) {
            UserDetails userDetails = service.loadUserByUsername(userName);
            if (jwtUtil.validateToken(token, userDetails)) {

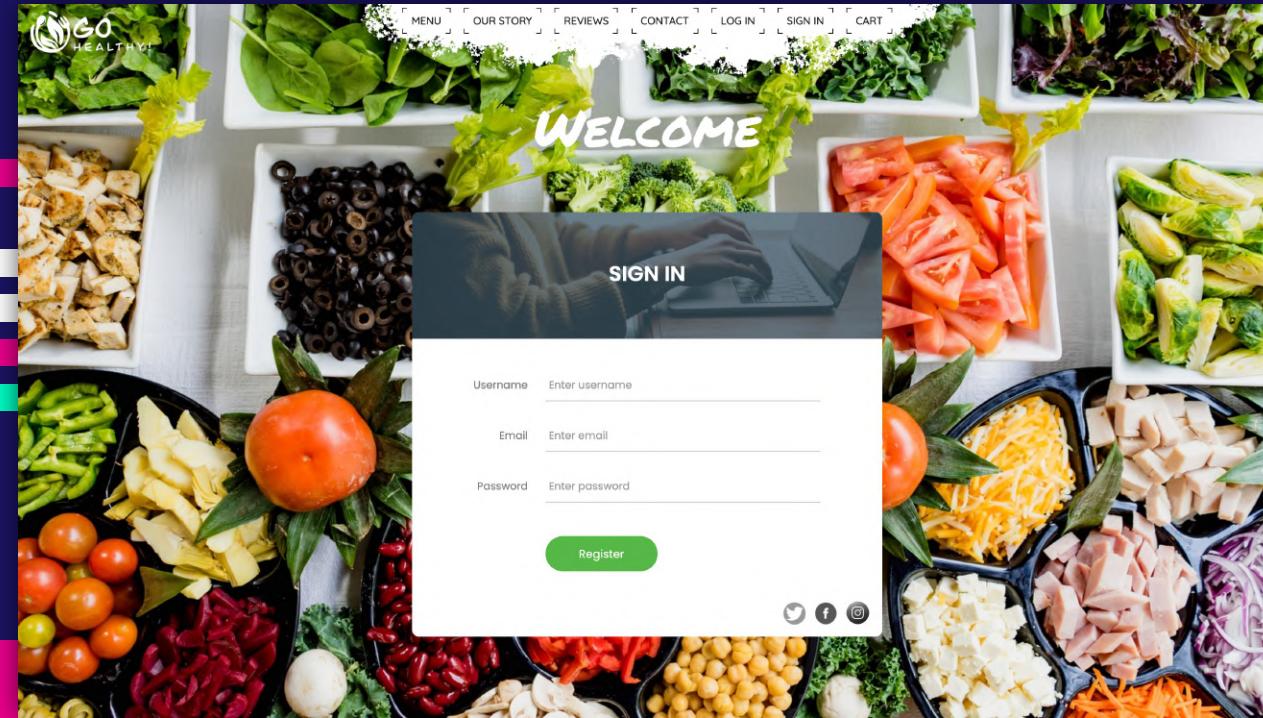
                UsernamePasswordAuthenticationToken usernamePasswordAuthenticationToken = new UsernamePasswordAuthenticationToken(
                    userDetails, credentials: null,
                    userDetails.getAuthorities());
                usernamePasswordAuthenticationToken.setDetails(new WebAuthenticationDetailsSource().buildDetails(httpServletRequest));
                SecurityContextHolder.getContext().setAuthentication(usernamePasswordAuthenticationToken);
            }
        }
        filterChain.doFilter(httpServletRequest, httpServletResponse);
    }
}

```

# 07

## Sign In

# The Sign In Component - Front-end



The Sign In page provides the user with a method to make an account on the site.

The input values are validated and if all is good, the request to the back-end is made and the new user is created in the database.

```

@PostMapping("/register")
public void register(@RequestBody User user) {
    System.out.println("Register accessed");
    user.setPassword(passwordEncoder.encode(user.getPassword()));
    System.out.println(user.getPassword());
    userRepository.save(user);
}

```

The register method which creates a new user.

# The Sign In Component

## Back-end - Register

id	email	password	username
1	codrut@yahoo.com	\$2a\$10\$KfRcMJaEp1kQmKRKCzZcG.4GbXM...	codrut
2	hallo@yahoo.com	\$2a\$10\$rR0TTqOmixGEYRqPqvEw0uycl4w87...	hallo
3	test7@yahoo.com	\$2a\$10\$KwDiuSK9grdClsgb8yqKzeSg6YVBOk...	test7
4	test2@yahoo.com	\$2a\$10\$wlFb8Eh7QjhzELtNC3JWHeilcdBebKF...	test2
5	test3@yahoo.com	\$2a\$10\$PTB7qX2ZYLUQlw11H3F5j.tanL10JLj...	test3
6	test4@yahoo.com	\$2a\$10\$GbQuXViSTue1wiBDXr.owOoQskfxCv...	test4
7	test5@yahoo.com	\$2a\$10\$b.0x.sAjy2U2Vmnhf0vShujRCK4w9k3...	test5
8	test6@yahoo.com	\$2a\$10\$9nltppKbWt8VrD79N1DzQeGQtIh2U2...	test6
9	test@yahoo.om	\$2a\$10\$9Qglvhn/6DpHWAsi0sH9xOk7pT/ruD...	test
10	test9@yahoo.com	\$2a\$10\$gvQDuXTroQDJz2ulzQH7xe.3a6C2pQ...	test9
11	test1@yahoo.com	\$2a\$10\$MjfD6zhzFwtFlvDHlp/oheo/rhJmPMiqt...	test1
NULL	NULL	NULL	NULL

This is the database table with the encoded password that comes from the back-end.

An example of email validate method.

```

export class SignInPageComponent {

  employeeForm: FormGroup;
  user: UserSignIn;
  response: any;

  constructor(
    public authSevice: JwtClientService,
    private router: Router) {
    this.user = new UserSignIn();
  }

  ngOnInit() {
    this.employeeForm = new FormGroup({
      username: new FormControl(),
      email: new FormControl()
    });

    var emailEl = document.getElementById("email");
    emailEl.addEventListener("blur", this.emailIsValid, false);
  }

  onSubmit() {
    this.authSevice.register(this.user).subscribe(data => {
      this.response = data;
    });

    if (this.emailIsValid() == true) {
      this.router.navigate(['/log-in-after-register']);
    }
  }

  public emailIsValid() {
    let email = this.user.email;
    let regex = /^[a-zA-Z0-9_.!#$%&'*+=?^_`{}~-]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)*$/;

    if (regex.test(email)) {
      return true;
    } else {
      alert("Bad");
      // console.log("Bad");
      return false;
    }
  }
}

```



Thank you for your  
attention!

