

API Documentation

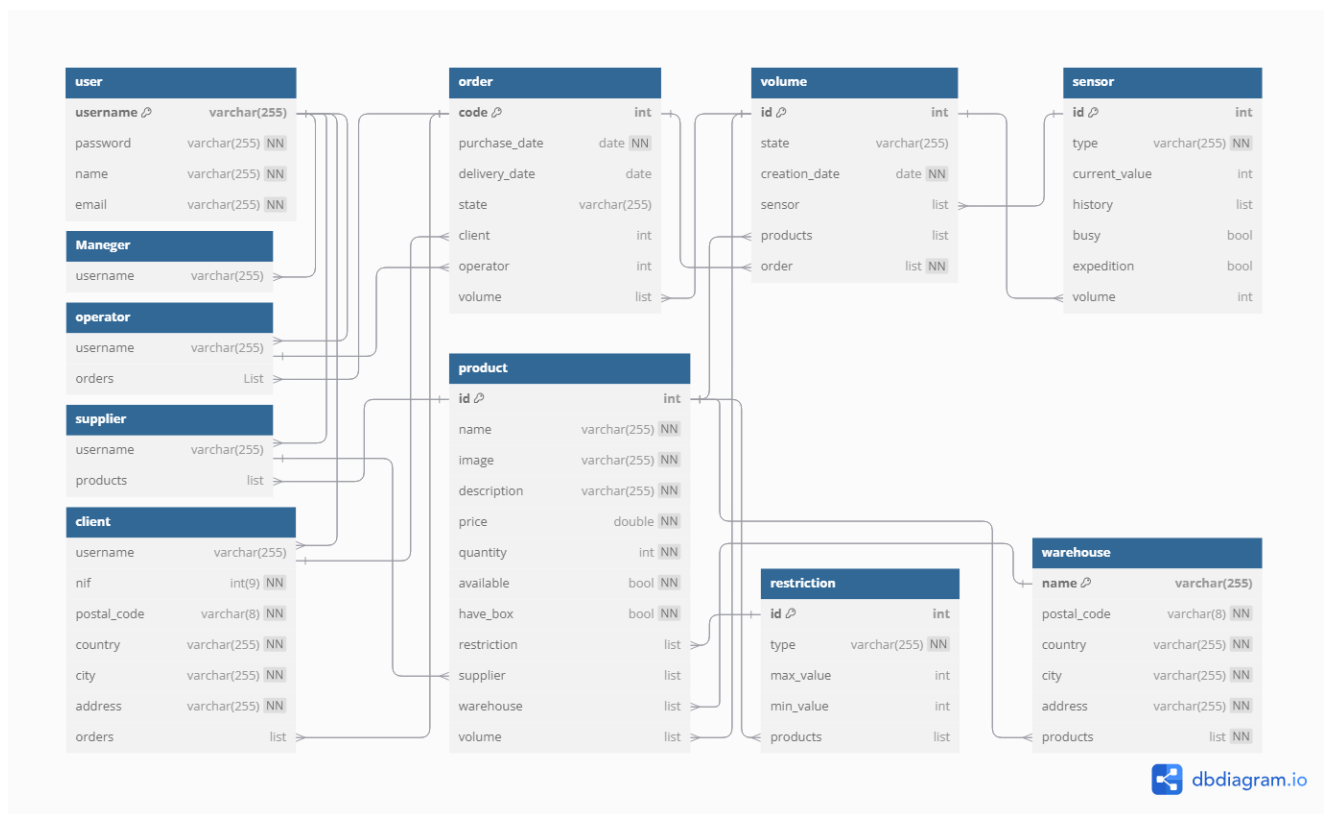
WeDelivery

Esta API permite responder a todo o tipo de Pedidos necessários ao negócio da empresa WeDelivery, empresa ligada ao serviço de transporte e armazenamento de embalagens e produtos. Fornece endpoints para todas as funcionalidades da nossa Aplicação WEB.

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Diagrama da Base de dados



Base URL

http://localhost:8080/wedelivery/api

Endpoints

1. Autenticação

POST /auth/login

Um User inicia sessão e recebe, para sua segurança, um token JWT.

- **URL:** /auth/login
- **Método:** POST
- **Headers:**
 - Content-Type: application/json
- **Body:**

```
{
  "username": "Goncalo",
  "password": "password"
}
```

- **Response:**

```
{
  "token": "eyJhbGciOiJIUzI1NCJ9.eyJzdWIiOiJHb25jYWxvIiwiaW
F0IjoXNzZW00IiwiaXNzIjoiLCJleHAiOiJlE3MzA4MjQ5MzR9.ZDP7ZR4DT6ktuX
78kVLAQpf9Yb715YS93Q3Wj29LAapxCG0zGege3PuZy4Mt9hH"
}
```

2. Operadores

GET /operators

Um Administrador consulta a listagem de todos os Operadores Registrados.

- **URL:** `/operators`
- **Método:** `GET`
- **Headers:**
 - `Content-Type: application/json`
- **Body:**

Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cGE6YWV0IjoxNjM0Mz
M3LCJleHAiOiE3MzI2NDE5MzQ5LWUjZj4TTuNnxF
F4xjDuFVmd3oDlR0AFw2iuJRj2vPZN2LwP

- **Response:**

```
{
  {
    "email": "Dinis@gmail.com",
    "name": "Dinis Roxo",
    "password": "password",
    "username": "DinisRX"
  },
  {
    "email": "Goncalo@gmail.com",
    "name": "Goncalo Ferreira",
    "password": "password",
    "username": "GoncaloF00"
  }
}
```

GET /operators/{username}

Um Administrador consulta o perfil de um Operador.

- **URL:** /operators/DinisRX
- **Método:** GET
- **Headers:**
 - **Content-Type:** application/json
- **Body:**

```
Authorization: Bearer  
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz  
M3LCJleHAiOiJlE3MzI2NDE5Mzd9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz  
M3LCJleHAiOiJlE3MzI2NDE5Mzd9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
```

- **Response:**

```
{  
  "email": "Dinis@gmail.com",  
  "name": "Dinis Roxo",  
  "password": "password",  
  "username": "DinisRX"  
}
```

POST /operators

Um Administrador efetua o registo de um Operador na plataforma do sistema.

- **URL:** /operators
- **Método:** POST
- **Headers:**
 - **Content-Type:** application/json
- **Body:**

```
Authorization: Bearer  
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz  
M3LCJleHAiOiJlE3MzI2NDE5Mzd9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz  
M3LCJleHAiOiJlE3MzI2NDE5Mzd9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
```

```
{
  "email": "ana@mail.com",
  "name": "Ana",
  "username": "Ana",
  "password": "password"
}
```

- **Response:**

```
{
  "email": "ana@mail.com",
  "name": "Ana",
  "password": "password",
  "username": "Ana"
}
```

3. Gestores

GET /managers

Um Administrador consulta a listagem de todos os Gestores Registrados.

- **URL:** /managers
- **Método:** GET
- **Headers:**
 - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWx0Ij0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiJlMzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
  {
    "email": "Rui@gmail.com",
    "name": "Rui Manager",
    "password": "password",
    "username": "RuiM100"
  }
}
```

```
},
{
  "email": "Manager@gmail.com",
  "name": "André Silva",
  "password": "password",
  "username": "AndreS10"
}
```

GET /managers/{username}

Um Administrador consulta o perfil de um Gestor.

- **URL:** `/managers/Rui`
- **Método:** `GET`
- **Headers:**
 - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDU5MzQ5LWUjZj4TTuNnxFF4xjDu-
FVmd3oDlR0AfFW2iuR2vPZN2LwP
```

- **Response:**

```
{
  "email": "Rui@gmail.com",
  "name": "Rui Manager",
  "password": "password",
  "username": "RuiM100"
}
```

POST /managers

Um Administrador efetua o registo de um Gestor na plataforma do sistema.

- **URL:** /managers
- **Método:** POST
- **Headers:**

- **Body:**

```
{
  "email": "margarida@mail.com",
  "name": "Margarida",
  "username": "Margarida",
  "password": "password"
}
```

- ```
{
 "email": "margarida@mail.com",
 "name": "Margarida",
 "password": "password",
 "username": "Margarida"
}
```

Um Gestor consulta todas as encomendas a si associadas.

- Authorization: Bearer  
eyJhbGciOiJIUzI0NCJ9.eyJzdWIiOiJHbDQyYXVwRjAwIiwiaWF0IjoxNzMyNjMzMzY3LCJleHAiOjE3MDZlNDk1MzY3LWUjaHRGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDLROAFw2iuJR2vPZN2LwP

- **Response:**

```
{
 "code": 3,
 "deliveryDate": "2024-10-18T13:38:32.823Z[UTC]",
 "purchaseDate": "2024-10-18T13:38:32.823Z[UTC]",
 "username": "Goncalo",
 "state": "In Distribution",
 "usernameOperator": "DinisRX"
}
```

## 4. Clientes

## GET /clients

Um Administrador consulta a listagem de todos os Clientes Registrados.

- **URL:** `/clients`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cGEiOiJhbnQyYXVxYXVxIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJR2vPZN2LwP
```

- **Response:**

```
{
 {
 "address": "Rua das Igrejas",
 "city": "Leiria",
 "country": "PT",
 "email": "guilherme@gmail.com",
 "name": "Guilherme",
 "nif": 123123124,
 "password": "password",
 "postalCode": "2565-834",
 "username": "Guilherme"
 },
 {
 "address": "Rua das Igrejas",
```



```

 "city": "Leiria",
 "country": "PT",
 "email": "cr7@gmail.com",
 "name": "Papai Cris",
 "nif": 123123125,
 "password": "password",
 "postalCode": "2565-834",
 "username": "Cristiano"
 }
}

```

## GET /clients/{username}

Um Administrador consulta o perfil de um Cliente.

- **URL:** /clients/Goncalo
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```

Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiJlMzI2NDUzZd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuR2vPZN2LwP

```

- **Response:**

```

{
 "address": "Rua das Igrejas",
 "city": "Leiria",
 "country": "PT",
 "email": "goncalo@gmail.com",
 "name": "Gonçalo",
 "nif": 123123123,
 "orders": [
 {
 "code": 1372122800,
 "deliveryDate": "2024-10-22T15:47:16.764Z[UTC]",
 "purchaseDate": "2024-10-22T15:47:16.764Z[UTC]",
 "state": "Shipped",
 "username": "Goncalo",
 "usernameOperator": "GoncaloF00"
 }
]
}

```

```

 },
 {
 "code": 1413200289,
 "deliveryDate": "2024-10-22T15:47:16.764Z[UTC]",
 "purchaseDate": "2024-10-22T15:47:16.764Z[UTC]",
 "state": "Delivered",
 "username": "Goncalo",
 "usernameOperator": "DinisRX"
 }
],
 "password": "password",
 "postalCode": "2565-834",
 "username": "Goncalo"
}

```

## POST /clients

Um Cliente efetua o registo na plataforma do sistema.

- **URL:** /clients
- **Método:** POST
- **Headers:**
  - Content-Type: application/json
- **Body:**

```

Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZdWi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOi0jE3MzI2NDE5Mzd9LWUjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP

{
 "username": "john",
 "email": "johndoe@mail.com",
 "password": "jd",
 "name": "John Doe",
 "courseCode": 1,
 "nif": 444555666,
 "postalCode": "2565-834",
 "country": "PT",
 "city": "Leiria",
 "address": "Rua x"
}

```

- **Response:**

```
{
 "address": "Rua x",
 "city": "Leiria",
 "country": "PT",
 "email": "johndoe@mail.com",
 "name": "John Doe",
 "nif": 444555666,
 "password": "jd",
 "postalCode": "2565-834",
 "username": "john"
}
```

## GET /clients/{username}/orders

Um Cliente consulta todas as suas encomendas realizadas

- **URL:** `/clients/Goncalo/orders`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDU5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJR2vPZN2LwP
```

- **Response:**

```
{
 "code": 3,
 "deliveryDate": "2024-10-18T13:38:32.823Z[UTC]",
 "purchaseDate": "2024-10-18T13:38:32.823Z[UTC]",
 "username": "Goncalo",
 "state": "In Distribution",
 "usernameOperator": "DinisRX"
}
```

**POST** /clients/Goncalo/email

Um Cliente efetua uma encomenda, e o método post da encomenda chama este endpoint, posteriormente o cliente é notificado por e-mail.

- **URL:** `/clients/{username}/email`
- **Método:** `POST`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP

{
 "subject": "Order 756754685648 created",
 "body": "Order 756754685648 created successfully."
}
```

- **Response:**

```
{
 "status": 200,
 "message": "E-mail sent"
}
```

## 5. Encomendas

### `GET /orders`

Um Gestor consulta a listagem de todas as Encomendas efetuadas.

- **URL:** `/orders`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
```

M3LCJleHAI0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmd3oDlR0AfFW2iujzRJ2vPZN2LwP

- **Response:**

```
{
 {
 "code": 1,
 "deliveryDate": "2024-10-18T13:38:32.822Z[UTC]",
 "purchaseDate": "2024-10-18T13:38:32.822Z[UTC]",
 "username": "Guilherme",
 "state": "In Distribution",
 "usernameOperator": "DinisRX"
 },
 {
 "code": 2,
 "deliveryDate": "2024-10-18T13:38:32.823Z[UTC]",
 "purchaseDate": "2024-10-18T13:38:32.823Z[UTC]",
 "username": "Guilherme",
 "state": "In Distribution",
 "usernameOperator": "DinisRX"
 },
 {
 "code": 3,
 "deliveryDate": "2024-10-18T13:38:32.823Z[UTC]",
 "purchaseDate": "2024-10-18T13:38:32.823Z[UTC]",
 "username": "Goncalo",
 "state": "In Distribution",
 "usernameOperator": "DinisRX"
 }
}
```

### GET /orders/{code}

Um Gestor consulta uma Encomenda efetuada.

- **URL:** /orders/1258464486
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
 "code": 1258464486,
 "deliveryDate": "2024-10-24T23:16:00.949Z[UTC]",
 "purchaseDate": "2024-10-24T23:16:00.949Z[UTC]",
 "state": "Pending",
 "username": "Guilherme",
 "usernameOperator": "DinisRX",
 "volumes": [
 {
 "creationDate": "2024-10-24 23:16:00.991",
 "id": 1494305280,
 "state": "Minor damage"
 }
]
}
```

### GET /orders/{code}/volume/{id}

Um Gestor consulta uma Encomenda efetuada e verifica um volume. Este método pode também ser usado por um Cliente que deseje consultar uma Encomenda efetuada por si.

- **URL:** /orders/1494305280/volume/3
- **Método:** GET
- **Headers:**
  - **Content-Type:** application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
 "creationDate": "2024-10-24 23:16:00.991",
 "id": 1494305280,
 "products": [
 {
 "available": true,
 "description": "Sprite",
 "haveSensor": false,
 "id": 3,
 "image": "sprite.jpg",
 "name": "Sprite",
 "price": 1.5,
 "quantity": 100
 },
 {
 "available": true,
 "description": "Fanta",
 "haveSensor": false,
 "id": 4,
 "image": "fanta.jpg",
 "name": "Fanta",
 "price": 1.5,
 "quantity": 100
 }
],
 "sensors": [
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 3,
 "type": "Temperature"
 },
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 23,
 "type": "humidity"
 }
],
 "state": "Minor damage"
}
```

## POST /orders

Um Cliente efetua uma Encomenda e a mesma é criada em sistema.

- **URL:** `/orders`
- **Método:** `POST`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP

{
 "code": 1930548778,
 "deliveryDate": "2024-10-20T23:02:22.383Z[UTC]",
 "purchaseDate": "2024-10-20T23:02:22.383Z[UTC]",
 "state": "Pending",
 "username": "Guilherme",
 "items": [
 {
 "available": true,
 "description": "Sprite",
 "haveSensor": false,
 "id": 3,
 "image": "sprite.jpg",
 "name": "Sprite",
 "price": 1.5,
 "quantity": 1
 },
 {
 "available": true,
 "description": "Sumol",
 "haveSensor": false,
 "id": 6,
 "image": "sumol.jpg",
 "name": "Sumol",
 "price": 1.5,
 "quantity": 1
 }
],
 "totalPrice": 26
}
```

- **Response:**

```
{
 "code": 1930548778,
```



```

"deliveryDate": "2024-10-20T23:02:22.383Z[UTC]",
"purchaseDate": "2024-10-20T23:02:22.383Z[UTC]",
"state": "Pending",
"username": "Guilherme",
"usernameOperator": "DinisRX",
"volumes": [
{
 "creationDate": "2024-10-24 00:00:00.0",
 "id": 121270755,
 "state": "Significant damage",
 "products": [
 {
 "available": true,
 "description": "Sprite",
 "haveSensor": false,
 "id": 3,
 "image": "sprite.jpg",
 "name": "Sprite",
 "price": 1.5,
 "quantity": 1
 },
 {
 "available": true,
 "description": "Sumol",
 "haveSensor": false,
 "id": 6,
 "image": "sumol.jpg",
 "name": "Sumol",
 "price": 1.5,
 "quantity": 1
 }
],
 "sensors": [
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 5,
 "type": "Temperature"
 },
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 25,
 "type": "humidity"
 }
],
}
]
}

```

## PATCH /orders/{id}

Um Gestor altera o estado de uma encomenda especificada por {id}.

- **URL:** /orders/761527421
- **Método:** PATCH
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZW50IiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiJE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuujRJ2vPZN2LwP

{
 "state": "Delivered"
}
```

- **Response:**

```
{
 "code": 761527421,
 "deliveryDate": "2024-10-25T14:11:00.389Z[UTC]",
 "purchaseDate": "2024-10-25T14:11:00.389Z[UTC]",
 "state": "Delivered",
 "username": "Guilherme",
 "usernameOperator": "DinisRX"
}
```

## 6. Produtos

## Get /products

Um Utilizador consulta todos os produtos na página de e-commerce.

- **URL:** `/products`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Response:**

```
[
 {
 "available": true,
 "description": "Coca-Cola",
 "haveSensor": false,
 "id": 1,
 "image": "coca-cola.jpg",
 "name": "Coca-Cola",
 "price": 1.5,
 "quantity": 0,
 "warehouseName": "Leiria"
 },
 ...,
 {
 "available": true,
 "description": "Sumol",
 "haveSensor": false,
 "id": 6,
 "image": "sumol.jpg",
 "name": "Sumol",
 "price": 1.5,
 "quantity": 100,
 "warehouseName": "Leiria"
 }
]
```

### Get /products/{id}

Um Utilizador consulta um produto específico.

- **URL:** /products/2
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Response:**

```
{
 "available": true,
 "description": "Pepsi",
 "haveSensor": false,
 "id": 2,
 "image": "pepsi.jpg",
 "name": "Pepsi",
 "price": 1.5,
 "quantity": 2,
}
```

```
"warehouseName": "Leiria"
}
```

### Get /products/{name}

Um Utilizador consulta todos os produtos que contenham a palavra {name}.

- **URL:** /products/S
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Response:**

```
[
 {
 "available": true,
 "description": "Sprite",
 "haveSensor": false,
 "id": 3,
 "image": "sprite.jpg",
 "name": "Sprite",
 "price": 1.5,
 "quantity": 100,
 "warehouseName": "Leiria"
 },
 ...,
 {
 "available": true,
 "description": "Sumol",
 "haveSensor": false,
 "id": 6,
 "image": "sumol.jpg",
 "name": "Sumol",
 "price": 1.5,
 "quantity": 100,
 "warehouseName": "Leiria"
 }
]
```

### GET /products/{id}/details

Um Utilizador consulta os detalhes de um repectivo produto.

- **URL:** /products/1/details

- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Response:**

```
{
 "available": true,
 "description": "Coca-Cola",
 "haveSensor": false,
 "id": 1,
 "image": "coca-cola.jpg",
 "name": "Coca-Cola",
 "price": 1.5,
 "quantity": 0,
 "supplier": {
 "email": "safari@mail.com",
 "name": "Safari, LDA",
 "password": "qwerty",
 "username": "safari"
 },
 "warehouse": {
 "address": "Rua das Igrejas",
 "city": "Leiria",
 "name": "Leiria",
 "postalCode": "2565-834"
 }
}
```

## 7. Armazéns

### Get /warehouses

Um Gestor consulta os warehouses existentes.

- **URL:** /warehouses
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZkdWl0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
```

```
FVmd3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
[
 {
 "address": "Rua das Igrejas",
 "city": "Leiria",
 "name": "Leiria",
 "postalCode": "2565-834"
 },
 ...,
 {
 "address": "Rua das Igrejas",
 "city": "Porto",
 "name": "Porto",
 "postalCode": "2565-834"
 }
]
```

### Get /warehouses/{name}

Um Gestor consulta os dados de um warehouse específico.

- **URL:** /warehouses/Leiria
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZzdWb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiJlMzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmd3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
 "address": "Rua das Igrejas",
 "city": "Leiria",
```

```
"name": "Leiria",
"postalCode": "2565-834"
}
```

### Get /warehouses/{name}/products

Um Gestor consulta todos os produtos que existem num determinado warehouse.

- **URL:** /warehouses/Leiria/products
- **Método:** GET
- **Headers:**
  - **Content-Type:** application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZjdWbWV7j4TTuNnxFF4xjDu-
FVmD3oDlR0Afw2iujzRj2vPZN2LwP
```

- **Response:**

```
{
 "address": "Rua das Igrejas",
 "city": "Leiria",
 "name": "Leiria",
 "postalCode": "2565-834",
 "products": [
 {
 "available": true,
 "description": "Coca-Cola",
 "haveSensor": false,
 "id": 1,
 "image": "coca-cola.jpg",
 "name": "Coca-Cola",
 "price": 1.5,
 "quantity": 0
 },
 ...,
 {
 "available": true,
 "description": "Sprite",
 "haveSensor": false,
 "id": 3,
```

```
 "image": "sprite.jpg",
 "name": "Sprite",
 "price": 1.5,
 "quantity": 100
 }
]
}
```

### Get /warehouses/{name}/products/{id}

Um Gestor consulta um determinado produto {id} num determinado warehouse {name}.

- **URL:** /warehouses/Leiria/products/1
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiJE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuujzRJ2vPZN2LwP
```

- **Response:**

```
{
 "address": "Rua das Igrejas",
 "city": "Leiria",
 "name": "Leiria",
 "postalCode": "2565-834",
 "products": [
 {
 "available": true,
 "description": "Coca-Cola",
 "haveSensor": false,
 "id": 1,
 "image": "coca-cola.jpg",
 "name": "Coca-Cola",
 "price": 1.5,
 "quantity": 0,
 "supplier": {
 "email": "safari@mail.com",
 "name": "Safari, LDA",

```



```

 "password": "qwerty",
 "username": "safari"
 }
}
]
```

## 8. Fabricantes

## GET /suppliers

Um Gestor consulta os Suppliers existentes

- **URL:** /suppliers
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWx0IiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJR2vPZN2LwP
```

- **Response:**

```
[
 {
 "email": "drinklfa@mail.com",
 "name": "DrinkLFA, LDA",
 "password": "qwerty",
 "username": "drinkLFA"
 },
 ...,
 {
 "email": "safari@mail.com",
 "name": "Safari, LDA",
 "password": "qwerty",
 "username": "safari"
 }
]
```

**GET /suppliers/{name} ou /suppliers/{name}/products**

Um Gestor consulta um determinado Supplier e os seus respectivos produtos

- **URL:** `/suppliers/safari`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

Authorization: Bearer  
eyJhbGciOiJIUzI1NiIsInR5cGE6YWV0IjoxNjM4MzM3LCJleHAiOjE3MDZlNDk1MzQyLWUjaHwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDLROAFfW2iuJRJ2vPZN2LwP

- **Response:**

```
{
 "email": "safari@mail.com",
 "name": "Safari, LDA",
 "password": "qwerty",
 "products": [
 {
 "available": true,
 "description": "Coca-Cola",
 "haveSensor": false,
 "id": 1,
 "image": "coca-cola.jpg",
 "name": "Coca-Cola",
 "price": 1.5,
 "quantity": 0
 },
 ...,
 {
 "available": true,
 "description": "Sumol",
 "haveSensor": false,
 "id": 6,
 "image": "sumol.jpg",
 "name": "Sumol",
 "price": 1.5,
 "quantity": 100
 }
],
}
```

```
{
 "username": "safari"
}
```

## GET /suppliers/{name}/products/{id}

Um Gestor efetua a consulta de um produto identificado por `{id}`,  
pertencente a um fornecedor designado por `{name}`.

- **URL:** `/suppliers/safari/products/2`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
 "email": "safari@mail.com",
 "name": "Safari, LDA",
 "password": "qwerty",
 "products": [
 {
 "available": true,
 "description": "Pepsi",
 "haveSensor": false,
 "id": 2,
 "image": "pepsi.jpg",
 "name": "Pepsi",
 "price": 1.5,
 "quantity": 2
 }
],
 "username": "safari"
}
```

## 9. Volumes

## GET /volumes

Um Gestor consulta os volumes existentes.

- **URL:** /volumes
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQ9LWUjZjdWbWV7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
[
 {
 "creationDate": "2024-10-24 00:00:00.0",
 "id": 121270755,
 "state": "Significant damage"
 },
 ...,
 {
 "creationDate": "2024-10-24 16:01:54.077",
 "id": 1019509487,
 "state": "Moderate damage"
 }
]
```

## GET /volumes/{id}

Um Gestor consulta um volume registado.

- **URL:** /volumes/1058107426
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

Authorization: Bearer  
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz  
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNxFF4xjDu-  
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP

- **Response:**

```
{
 "creationDate": "2024-10-24 20:36:54.968",
 "id": 1058107426,
 "products": [
 {
 "available": true,
 "description": "7up",
 "haveSensor": false,
 "id": 5,
 "image": "7up.jpg",
 "name": "7up",
 "price": 1.5,
 "quantity": 100
 },
 ...,
 {
 "available": true,
 "description": "Sumol",
 "haveSensor": false,
 "id": 6,
 "image": "sumol.jpg",
 "name": "Sumol",
 "price": 1.5,
 "quantity": 100
 }
],
 "sensors": [
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 5,
 "type": "Temperature"
 },
 ...,
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 25,
 "type": "humidity"
 }
]
}
```

```
 },
 {
 "state": "Moderate damage"
 }
]
}
```

## GET /volumes/{id}/details

Um Gestor consulta, ao detalhe, um volume registado.

- **URL:** /volumes/1058107426/details
- **Método:** GET
- **Headers:**
  - Content-Type: application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50L3VzZXQIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJR2vPZN2LwP
```

- **Response:**

```
{
 "creationDate": "2024-10-24 20:36:54.968",
 "id": 1058107426,
 "products": [
 {
 "available": true,
 "description": "7up",
 "haveSensor": false,
 "id": 5,
 "image": "7up.jpg",
 "name": "7up",
 "price": 1.5,
 "quantity": 100,
 "supplier": {
 "email": "safari@mail.com",
 "name": "Safari, LDA",
 "password": "qwerty",
 "username": "safari"
 },
 "warehouse": {
 "address": "Rua das Igrejas",

```

```

 "city": "Leiria",
 "name": "Leiria",
 "postalCode": "2565-834"
 },
 {
 "available": true,
 "description": "Sumol",
 "haveSensor": false,
 "id": 6,
 "image": "sumol.jpg",
 "name": "Sumol",
 "price": 1.5,
 "quantity": 100,
 "supplier": {
 "email": "safari@mail.com",
 "name": "Safari, LDA",
 "password": "qwerty",
 "username": "safari"
 },
 "warehouse": {
 "address": "Rua das Igrejas",
 "city": "Leiria",
 "name": "Leiria",
 "postalCode": "2565-834"
 }
 }
],
"sensors": [
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 5,
 "type": "Temperature"
 },
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 25,
 "type": "humidity"
 }
],
"state": "Moderate damage"
}

```

## 10. Sensores

GET /sensors

Um Gestor consulta os sensores existentes.

- **URL:** `/sensors`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiJlMzI2NDU5MzI2LWV7j4TTuNnxFF4xjDu-
FVmD3oDlR0AFw2iuJzRJ2vPZN2LwP
```

- **Response:**

```
[
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 2,
 "type": "Temperature"
 },
 {
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 4,
 "type": "Temperature"
 }
]
```

### `GET /sensors/{id}`

Um Gestor consulta um sensor em específico.

- **URL:** `/sensors/2`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`



- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
 "busy": false,
 "currentValue": 20,
 "expedition": false,
 "id": 2,
 "type": "Temperature"
}
```

### GET /sensors/{id}/details

Um Gestor consulta detalhadamente um sensor em específico, contendo assim a informação do volume associado ao sensor especificado.

- **URL:** /sensors/1
- **Método:** GET
- **Headers:**
  - **Content-Type:** application/json
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
 "busy": false,
 "currentValue": 20,
 "expedition": false,
```

```
"id": 1,
"type": "Temperature",
"volume": {
 "creationDate": "2024-10-25 10:47:49.814",
 "id": 662380363,
 "state": "No damage"
}
```

## PATCH /sensors/{id}

Um gestor altera o valor atual de um sensor especificando o seu {id}.

- **URL:** `/sensors/1`
- **Método:** `PATCH`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer eyJhbGciOiJIUzI0NDNCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzM4MzY3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNxFF4xjDu-FVmD3oDLROAfFW2iuRJRJ2vPZN2LwP
```

```
{
 "currentValue": 50
}
```

- **Response:**

```
{
 "busy": false,
 "currentValue": 50,
 "expedition": false,
 "id": 1,
 "type": "Temperature"
}
```

## DELETE /sensors/{id}

Um Gestor elimina um sensor especificando o seu {id}.

- **URL:** `/sensors/1`

- **Body:**

Authorization: Bearer  
eyJhbGciOiJIUzI1NiIsInR5cGE6YWV0IjoxNjM4Mz  
M3LCJleHAiOiE3MzI2NDU1MzQ1LWUjZj4TTuNnxF  
F4xjDu-FVmd3oDlR0AFw2iujzRJ2vPZN2LwP

- **Response:**

```
{
 Sensor com ID 1 foi removido com sucesso.
}
```

## 11. Restrições

## GET /restrictions

Um Gestor consulta as restrições existentes.

- **Body:**

Authorization: Bearer  
eyJhbGciOiJIUzI0NCJ9.eyJzdWIiOiJHbDQyYXVjRjAwIiwiaWF0IjoxNzMyNjM4MzM3LCJleHAiOjE3MDZlNDk1M3d9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDLROAfFW2iuJRJ2vPZN2LwP

- **Response:**

```
[
 {
 "id": 1,
 "maxValue": 25.4,
 "minValue": 19.5,
 "products": [],
 "type": "Temperature"
 },
 {
 "id": 2,
 "maxValue": 25.4,
 "minValue": 99.0,
 "products": [],
 "type": "Humidity"
 }
]
```

## GET /restrictions{id}

Um Gestor consulta uma restrição em específico.

- **URL:** `/restrictions/1`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

Authorization: Bearer  
eyJhbGciOiJIUzI1NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz  
M3LCJleHAiOjE3MzI2NDU5MzQ5LWUjZj4TTuNnxFF4xjDu-  
FVmd3oDlR0AfFW2iuJR2vPZN2LwP

- **Response:**

```
{
 "id": 1,
 "maxValue": 25.4,
 "minValue": 19.5,
 "products": [],
 "type": "Temperature"
}
```

## GET /restrictions{id}/details

Um Gestor consulta detalhadamente uma restrição em específico, obtendo também os produtos associados à mesma.

- **URL:** `/restrictions/1/details`
- **Método:** `GET`
- **Headers:**
  - `Content-Type: application/json`
- **Body:**

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWx0IiwiaWF0IjoxNjM4Mz
M3LCJleHAiOiE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iuJzRJ2vPZN2LwP
```

- **Response:**

```
{
 "id": 1,
 "maxValue": 25.4,
 "minValue": 19.5,
 "products": [
 {
 "available": true,
 "description": "Coca-Cola",
 "haveSensor": false,
 "id": 1,
 "image": "coca-cola.jpg",
 "name": "Coca-Cola",
 "price": 1.5,
 "quantity": -3
 },
 {
 "available": true,
 "description": "Pepsi",
 "haveSensor": false,
 "id": 2,
 "image": "pepsi.jpg",
 "name": "Pepsi",
 "price": 1.5,
 "quantity": 0
 }
]
}
```

```
"type": "Temperature"
}
```

---

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---

## Cliente

Professor João Ferreira

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# GitHub