



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.

Índice

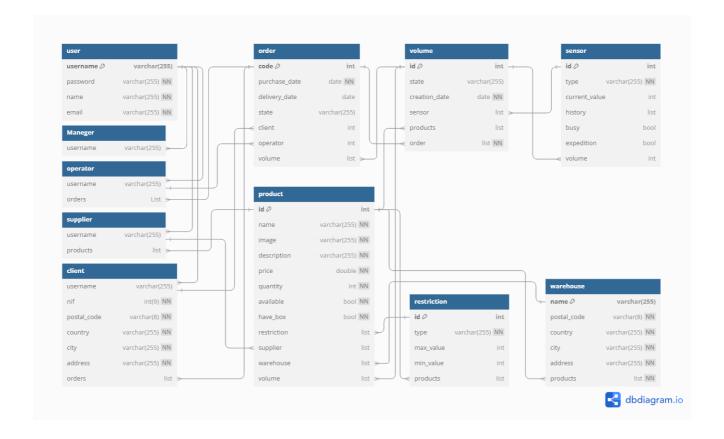
Diagrama da Base de Dados Endpoints da API

- 1. Autenticação
- 2. Operadores
- 3. Gestores
- 4. Clientes
- 5. Encomendas
- 6. Produtos
- 7. Armazéns
- 8. Fabricantes
- 9. Volumes
- 10. Sensores
- 11. Restrições

Créditos

PROFESSEUR: M.DA ROS

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": "eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvIiwiaW
  F0IjoxNzMw0DIxMzM0LCJleHAi0jE3MzA4MjQ5MzR9.ZDP7ZR4DT6ktuX
  78kVLAQpf9Yb715YS93QQ3Wj29LAapxCG0zGege3PuZy4Mt9hH"
}
```

2. Operadores

GET /operators

Um Administrador consulta a listagem de todos os Operadores Registados.

• URL: /operators

Método: GET

• Headers:

- Content-Type: application/json
- Body:

```
Authorization: Bearer
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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 eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

```
{
  "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 Registados.

• URL: /managers

Método: GET

- Headers:
 - Content-Type: application/json
- Body:

```
Authorization: Bearer eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

• 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:

Content-Type: application/json

• Body:

```
Authorization: Bearer
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP

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

• Response:

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

GET /managers/{username}/orders

Um Gestor consulta todas as encomendas a si associadas.

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

```
Authorization: Bearer
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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 Registados.

• URL: /clients

• Método: GET

• Headers:

- Content-Type: application/json
- Body:

```
Authorization: Bearer
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

• 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",
        "address": "Address
```

```
"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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

• 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"
```

POST /clients

Um Cliente efetua o registo na plataforma do sistema.

• URL: /clients

Método: POST

• Headers:

Content-Type: application/json

• Body:

```
Authorization: Bearer
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-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 todos as Encomendas efetuadas.

• URL: /orders

Método: GET

• Headers:

Content-Type application/json

• Body:

```
Authorization: Bearer eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
```

M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDlROAfFW2iujzRJ2vPZN2LwP

• 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 eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDlROAfFW2iujzRJ2vPZN2LwP

• 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
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
{
  "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
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP

{
   "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 especifico.

• 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:

PROFESSEUR: M.DA ROS

Authorization: Bearer eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-

• 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 especifico.

• URL: /warehouses/Leiria

• Método: GET

• Headers:

Content-Type: application/json

• Body:

```
Authorization: Bearer eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• Response:

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

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

Get /warehouses/{name}/products

Um Gestor consulta todos os produtos que exitem num determindo warehouse.

• URL: /warehouses/Leiria/products

• Método: GET

• Headers:

Content-Type: application/json

• Body:

```
Authorization: Bearer
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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,
```

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 eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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",
```

8. Fabricantes

GET /suppliers

Um Gestor consulta os Suppliers existentes

• URL: /suppliers

• Método: GET

• Headers:

Content-Type:application/json

• Body:

```
Authorization: Bearer
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

• Response:

```
{
  "email": "safari@mail.com",
  "name": "Safari, LDA",
  "password": "gwerty",
  "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
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• Response:

```
{
 "email": "safari@mail.com",
 "name": "Safari, LDA",
 "password": "gwerty",
 "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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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 eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-FVmD3oDlROAfFW2iujzRJ2vPZN2LwP

• 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
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
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,
      "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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

• Response:

```
{
      "busy": false,
      "currentValue": 20,
      "expedition": false,
      "id": 2,
      "type": "Temperature",
      "sensorValues": [
        {
          "id": 4,
          "value": "31",
          "date": 1737216084156
        }
      1
 },
      "busy": false,
      "currentValue": 20,
      "expedition": false,
      "id": 4,
      "type": "Temperature",
      "sensorValues": [
          "id": 5,
          "value": "10",
          "date": 1737216084159
        }
      1
 }
]
```

GET /sensors/{id}

Um Gestor consulta um sensor em específico.

• URL: /sensors/2

• Método: GET

• Headers:

Content-Type: application/json

• Body:

```
Authorization: Bearer
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

Response:

```
{
  "busy": false,
  "currentValue": 20,
  "expedition": false,
  "id": 2,
  "type": "Temperature",
  "sensorValues": [
      "id": 2,
      "value": "23",
      "date": 1737216084151
  ]
}
```

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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• Response:

```
{
 "id": 3,
 "type": "Temperature",
 "currentValue": "30",
 "busy": false,
 "expedition": false,
 "volume": {
   "id": 741966499,
   "state": "Minor damage",
   "creationDate": "2025-01-18 16:01:24.133"
 },
 "sensorValues": [
      "id": 3,
      "value": "30",
     "date": 1737216084154
   }
 1
}
```

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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
{
  "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

• Método: DELETE

• Headers:

Content-Type: application/json

• Body:

```
Authorization: Bearer
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

• Response:

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

11. Restrições

GET /restrictions

Um Gestor consulta as restrições existentes.

• URL: /restrictions

Método: GET

• Headers:

Content-Type: application/json

• Body:

```
Authorization: Bearer
eyJhbGci0iJIUzM4NCJ9.eyJzdWIi0iJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAi0jE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlR0AfFW2iujzRJ2vPZN2LwP
```

• 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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-UjahwGa9vKommvWv7j4TTuNnxFF4xjDu-
FVmD3oDlROAfFW2iujzRJ2vPZN2LwP
```

• 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
eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJHb25jYWxvRjAwIiwiaWF0IjoxNzMyNjM4Mz
M3LCJleHAiOjE3MzI2NDE5Mzd9.-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

