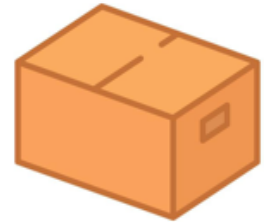


Projeto DAE



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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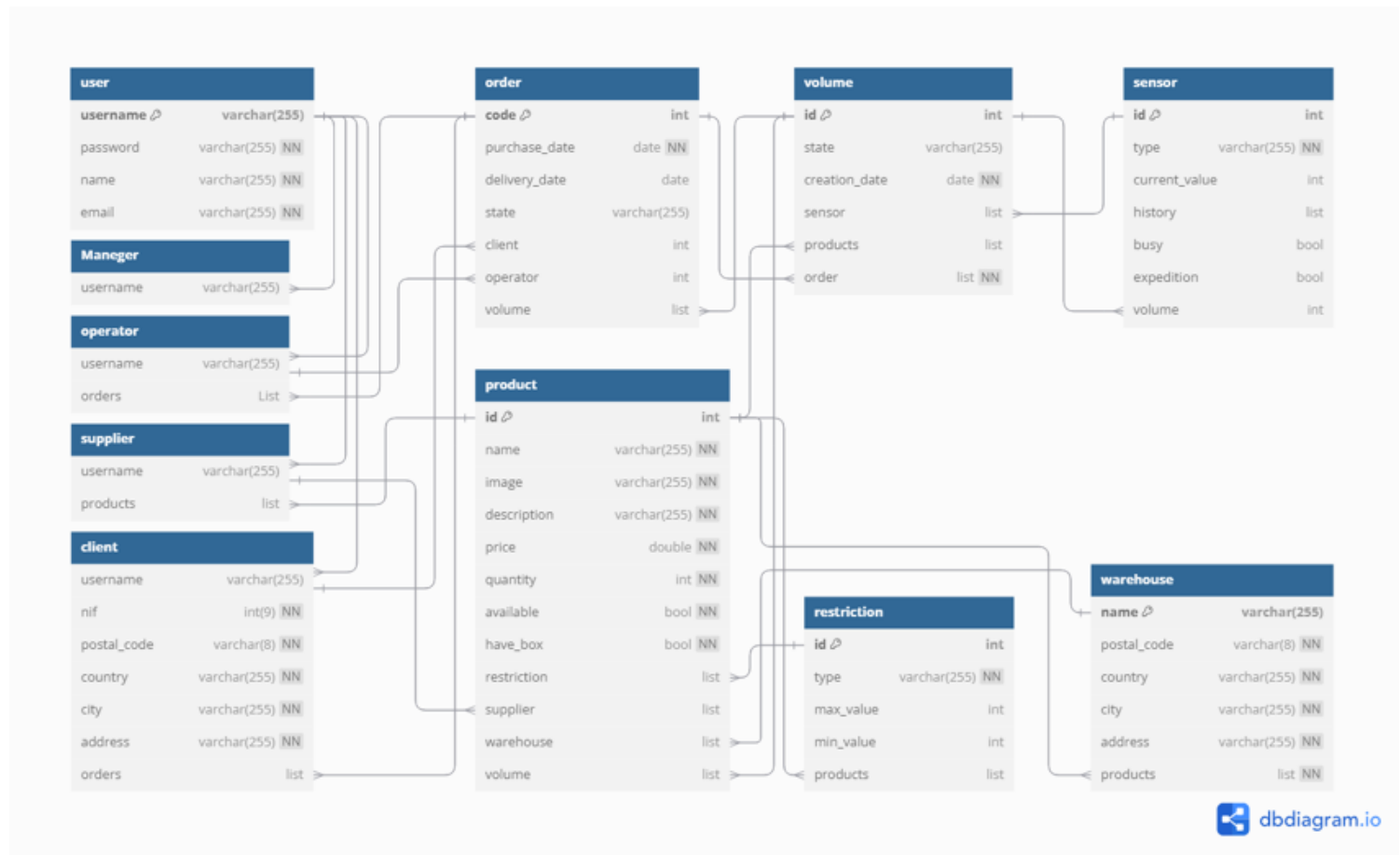
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Diagrama da Base de dados



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": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXLTJ5YXVlIiwiaW9ja3ZlcnR5IjE3OTY5MzQ3Wj29LAapxCG0zGege3PuZy4Mt9hH"  
}
```

2. Operadores

GET /operators

Um Administrador consulta a listagem de todos os Operadores Registrados.

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

```
{
  "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
- **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
- **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:**

```
{
  "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
- **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
- **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
- **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:**

```
{
  "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
- **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:**

```
{
  "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

- **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
- **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
- **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:**

```
{
  "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:**

```
{
  "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
- **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
- **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

- **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
- **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
- **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
- **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`
- **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
- **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
- **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
- **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
- **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
- **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

- **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:**

```
{
  "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
- **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
- **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`
- **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`
- **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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