Contents

Purpose of this document

This document describes what REST services dogstore-application provides. It contains all needed information so that client can be implemented.

REST resources (services)

1.   Get all products -> https://dogstorebackend.onrender.com/products

2.   Get product by id-> https://dogstorebackend.onrender.com/products/{id}

3.   Insert product-> https://dogstorebackend.onrender.com/products

4.   Edit product https://dogstorebackend.onrender.com/products/{id}

5.   Delete product -> https://dogstorebackend.onrender.com/products/{id}

6.   Get all manufacturers -> https://dogstorebackend.onrender.com/manufacturers

7.   Get manufacturer by id -> https://dogstorebackend.onrender.com/manufacturers/{id}

8.   Get manufacturers products -> https://dogstorebackend.onrender.com/manufacturers/{id}/products

9.   Get all types -> https://dogstorebackend.onrender.com/types

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11.   Get all orders -> https://dogstorebackend.onrender.com/orders

12.   Get order by id -> https://dogstorebackend.onrender.com/orders/{id}

REST requests and responses

1 Get all products

HTTP method: GET

API call: https://dogstorebackend.onrender.com/products

Request body: -

Response example below:

```
[
  {
    "id": 1,
    "name": "Ulkoilutakki",
    "color": "Sininen",
    "size": "S",
    "price": 15.0,
    "units_in_stock": 25,
    "type": {
      "id": 1,
      "type_name": "Vaate"
    },
    "manufacturer": {
      "id": 1,
      "name": "Rukka"
    }
  },
  {
    "id": 2,
    "name": "Vinkulelu",
    "color": "Keltainen",
    "size": "-",
    "price": 5.0,
    "units_in_stock": 25,
    "type": {
      "id": 2,
      "type_name": "Lelu"
    },
    "manufacturer": {
      "id": 2,
      "name": "Martta"
    }
  }
]
```

2 Get product by id

HTTP method: GET

API call: https://dogstorebackend.onrender.com/products/1

Request body: -

Response example below:

```
[
  {
    "id": 1,
    "name": "Ulkoilutakki",
    "color": "Sininen",
    "size": "S",
    "price": 15.0,
    "units_in_stock": 25,
    "type": {
      "id": 1,
      "type_name": "Vaate"
    },
    "manufacturer": {
      "id": 1,
      "name": "Rukka"
    }
  }
]
```

3 Insert new product

HTTP method: POST

API call: https://dogstorebackend.onrender.com/products

Request body:

```
{
        "name": "Vinkulelu",
        "color": "Keltainen",
        "size": "-",
        "price": 10.0,
        "units_in_stock": 25,
        "type": {
            "id": 2,
            "type_name": "Lelu"
        },
        "manufacturer": {
            "id": 1,
            "name": "Rukka"
        }
    }
```

Response example below (Status 200 OK):

```
{
    "id": 9,
    "name": "Vinkulelu",
    "color": "Keltainen",
    "size": "-",
    "price": 10.0,
    "units_in_stock": 25,
    "type": {
        "id": 2,
        "type_name": "Lelu"
    },
    "manufacturer": {
        "id": 1,
        "name": "Rukka"
    }
}
```

4 Edit product

HTTP method: PUT

API call: https://dogstorebackend.onrender.com/products/7

Request body:

```
{
    "name": "Sadetakki",
    "color": "Sininen",
    "size": "S",
    "price": 15.0,
    "units_in_stock": 25,
    "type": {
      "id": 1,
      "type_name": "Vaate"
    },
    "manufacturer": {
      "id": 1,
      "name": "Rukka"
    }
  }
```

Response example below (Status 200 OK):

```
{
    "id": 4,
    "brand": "Volkswagen",
    "model": "Golf updated",
    "color": "White",
    "registerNumber": "ABC-123",
    "price": 59000.0,
    "year": 2021,
    "owner": {
        "id": 1,
        "firstName": "Macy",
        "lastName": "Minnie",
        "city": "Tampere",
        "ssn": "150578-223L",
        "yob": 1970
    }
}
```

5 Delete car

HTTP method: DELETE

API call: http://localhost:8080/rest/cars/4

Request body: -

Response: Status 200 OK

6 Get all manufacturers

HTTP method: GET

API call: https://dogstorebackend.onrender.com/manufacturers

Request body: -

Response status: 200 OK

Response example below:

```
[
    {
        "id": 1,
        "name": "Rukka",
        "products": [
            {
                "id": 1,
                "name": "Ulkoilutakki",
                "color": "Sininen",
                "size": "S",
                "price": 15.0,
                "units_in_stock": 25,
                "type": {
                    "id": 1,
                    "type_name": "Vaate"
                }
            },
            {
                "id": 5,
                "name": "Purulelu",
                "color": "Sini-valkoinen",
                "size": "-",
                "price": 7.5,
                "units_in_stock": 50,
                "type": {
                    "id": 2,
                    "type_name": "Lelu"
                }
            },
            {
                "id": 6,
                "name": "Kuivaruoka",
                "color": "-",
                "size": "-",
```

```
                "price": 7.8,

                "units_in_stock": 50,

                "type": {

                    "id": 3,

                    "type_name": "Ruoka"

                }

            }

        ]

    }
```

7 Get manufacturer by ID

HTTP method: GET

API call: https://dogstorebackend.onrender.com/manufacturers/2

Request body: -

Response status: 200 OK

Response example below:

```
  {

    "id": 2,

    "name": "Martta",

    "products": [

        {

            "id": 2,

            "name": "Vinkulelu",

            "color": "Keltainen",

            "size": "-",

            "price": 5.0,

            "units_in_stock": 25,

            "type": {

                "id": 2,

                "type_name": "Lelu"

            }

        }

    ]

}
```

8 Get manufacturers products by ID

HTTP method: GET

API call: https://dogstorebackend.onrender.com/manufacturers/2/products

Request body: -

Response status: 200 OK

Response example below:

```
[
    {
        "id": 2,
        "name": "Vinkulelu",
        "color": "Keltainen",
        "size": "-",
        "price": 5.0,
        "units_in_stock": 25,
        "type": {
            "id": 2,
            "type_name": "Lelu"
        },
        "manufacturer": {
            "id": 2,
            "name": "Martta"
        }
    }
]
```

9 Get all product types
HTTP method: GET

API call: https://dogstorebackend.onrender.com/types

Request body: -

Response status: 200 OK

Response example below:

```
[
    {
        "id": 1,
        "type_name": "Vaate"
    },
    {
        "id": 2,
```

```
        "type_name": "Lelu"
    },
    {
        "id": 3,
        "type_name": "Ruoka"
    }
]
```

10 Get product type by ID

HTTP method: GET

API call: https://dogstorebackend.onrender.com/types/1

Request body: -

Response status: 200 OK

Response example below:

```
{
    "id": 1,
    "type_name": "Vaate"
}
```

11 Get all orders

HTTP method: GET

API call: https://dogstorebackend.onrender.com/orders

Request body: -

Response status: 200 OK

Response example below:

```
[
    {
        "id": 1,
        "name": "John Doe",
        "email": "John.doe@mail.com",
        "phone": "0401234123",
        "product": "https://dogstorebackend.onrender.com/api/products/1"
    }
]
```

12 Get order by ID

HTTP method: GET

API call: https://dogstorebackend.onrender.com/orders/1

Request body: -

Response status: 200 OK

Response example below:

```
{
    "id": 1,
    "name": "John Doe",
    "email": "John.doe@mail.com",
    "phone": "0401234123",
    "product": "https://dogstorebackend.onrender.com/api/products/1"
}
```

HTTP methods

Http Method	Resource EndPoint	Input	Success Response	Error Response	Description
GET	/products	Body: empty	Status: 200 List of products	Status 500	Retrieves all products
GET	/products/{id}	Body: empty	Status: 200 Id-specific product	Status: 500	Retrieves one product with specific id
POST	/products	Body: product data in JSON format	Status: 201 posts a product in the product repository	Status: 400	Creates a new product
PUT	/products/{id}	Body: product data in JSON format	Status: 200 updates product by id	Status: 404	updates product by id
DELETE	/products/{id}	Body: empty	Status: 204 removes a product by id	Status: 404	removes a product by id
GET	/manufacturers	Body: empty	Status: 200 List of manufacturers	Status: 500	Retrieves all manufacturers
GET	/manufacturers/{id}	Body: empty	Status: 200 manufacturer by id	Status: 500	retrieves one manufacturer by id
GET	/manufacturers/{id}/products	Body: empty	Status: 200 products by a specific manufacturer id	Status:404	product by a manufacturer identified by id
GET	/types	body: empty	Status: 200 List of types	Status: 500	Retrieves a list of types
GET	/types/{id}	body: empty	Status: 200 id specific type	Status: 500	Retrieves one type with specific id
GET	/orders	body: empty	Status: 200 List of orders	Status: 500	Retrieves list of orders
GET	/orders/{id}	body: empty	Status: 200 one order by id	Status: 500	Retrieves one order by id