Contents

[Purpose of this document 2](#_Toc133868361)

[REST resources (services) 3](#_Toc133868362)

[Products 3](#_Toc133868363)

[Manufacturers 3](#_Toc133868364)

[REST requests and responses 4](#_Toc133868365)

[1 Products 4](#_Toc133868366)

[1.1 Get all products 4](#_Toc133868367)

[1.2 Insert new product 5](#_Toc133868368)

[1.3 Edit product 5](#_Toc133868369)

[1.4 Delete product 6](#_Toc133868370)

[2 Manufacturers 6](#_Toc133868371)

[1.1 Get all manufacturers 6](#_Toc133868372)

[1.2 Insert new manufacturer 7](#_Toc133868373)

[1.3 Edit manufacturer 7](#_Toc133868374)

[1.4 Delete manufacturer 7](#_Toc133868375)

# Purpose of this document

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

# REST resources (services)

## Products

1. Get all products -> http://localhost:8080/api/products (use plurals)

2. Insert new product -> http://localhost:8080/api/products

3. Edit product -> http://localhost:8080/api/products/{id} (id parameter needed)

4. Delete product -> http://localhost:8080/api/products/{id}

## Manufacturers

1. Get all manufacturers -> http://localhost:8080/api/manufacturers (use plurals)

2. Insert new manufacturer -> http://localhost:8080/api/manufacturers

3. Edit manufacturer -> http://localhost:8080/api/manufacturers/{id} (id parameter needed)

4. Delete manufacturer -> http://localhost:8080/api/manufacturers/{id}

# REST requests and responses

## 1 Products

### 1.1 Get all products

HTTP method: GET

API call: http://localhost:8080/api/products

Request body: -

Response example below:

[

    {

        "id": 1,

        "name": "Sadetakki",

"type": {

            "id": 2,

            "name": "Vaate"

        },

"size": {

            "id": 2,

            "clothingSize": "M"

        },

        "price": 39.9,

        "manufacturer": {

            "id": 1,

            "name": "Purina"

        }

    },

    {

        "id": 2,

        "name": "Ulkotossut",

"type": {

            "id": 2,

            "name": "Vaate"

        },

"size": {

            "id": 1,

            "clothingSize": "S"

        },

        "price": 19.9,

        "manufacturer": {

            "id": 2,

            "name": "Pedigree"

        }

    },

    {

        "id": 3,

        "name": "Hassuhattu",

"type": {

            "id": 2,

            "name": "Vaate"

        },

"size": {

            "id": 3,

            "clothingSize": "L"

        },

        "price": 12.9,

        "manufacturer": {

            "id": 1,

            "name": "Purina"

        }

    }

]

### 1.2 Insert new product

HTTP method: POST

API call: http://localhost:8080/api/products

Request body:

    {

        "name": "Köysilelu",

"type": {

            "id": 1,

            "name": "Lelu"

        },

"size": {

            "id": 4,

            "clothingSize": "-"

        },

        "price": 6.9,

        "manufacturer": {

            "id": 1,

            "name": "Purina"

        }

    },

Response example below (Status 200 OK):

    {

        "id": 4,

        "name": "Köysilelu",

"type": {

            "id": 1,

            "name": "Lelu"

        },

"size": {

            "id": 4,

            "clothingSize": "-"

        },

        "price": 6.9,

        "manufacturer": {

            "id": 1,

            "name": "Purina"

        }

    },

### 1.3 Edit product

HTTP method: PUT

API call: http://localhost:8080/api/products/1

Request body:

    {

        "name": "Sadetakki updated",

"type": {

            "id": 2,

            "name": "Vaate"

        },

"size": {

            "id": 2,

            "clothingSize": "M"

        },

        "price": 39.9,

        "manufacturer": {

            "id": 1,

            "name": "Purina"

        }

    },

Response example below (Status 200 OK):

    {

        "id": 1,

        "name": "Sadetakki updated",

"type": {

            "id": 2,

            "name": "Vaate"

        },

"size": {

            "id": 2,

            "clothingSize": "M"

        },

        "price": 39.9,

        "manufacturer": {

            "id": 1,

            "name": "Purina"

        }

    },

### 1.4 Delete product

HTTP method: DELETE

API call: http://localhost:8080/api/product/4

Request body: -

Response: Status 200 OK

## 2 Manufacturers

### 1.1 Get all manufacturers

HTTP method: GET

API call: http://localhost:8080/api/manufacturers

Request body: -

Response example below:

[

    {

        "id": 1,

        "name": "Purina",

    },

    {

        "id": 2,

        "name": "Pedigree",

    }

]

### 1.2 Insert new manufacturer

HTTP method: POST

API call: http://localhost:8080/api/manifacturers

Request body:

{

        "name": "Rukka",

}

Response example below (Status 200 OK):

{

        "id": 3,

        "name": "Rukka",

}

### 1.3 Edit manufacturer

HTTP method: PUT

API call: http://localhost:8080/api/manufacturers/3

Request body:

{

        "type": "Rukka",

}

Response example below (Status 200 OK):

{

        "id": 3,

        "name": "Rukka",

}

### 1.4 Delete manufacturer

HTTP method: DELETE

API call: http://localhost:8080/api/manufacturers/3

Request body: -

Response: Status 200 OK

HTTP methods

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Http**  **Method** | **Resource EndPoint** | **Input** | **Success Response** | **Error**  **Response** | **Description** |
| GET | /api/products | Body: empty | Status: 200  List of products | Status: 500 | Retrieves all products |
| GET | /api/products/id/{id} | Body: empty | Status: 200  Information of one product | Status: 500 | Retrieves information of one product |
| GET | /api/products/type/{type} | Body: empty | Status: 200  List of products | Status: 500 | Retrieves list of products with the same type |
| POST | /api/products | Body: new product data | Status: 200  New product with id information | Status: 500 | Creates new product |
| PUT | /api/ products /{id} | Body: product data with updates | Status: 200  Body: Empty | Status: 404 or 500 | Updates an existing product |
| DELETE | /api/ products/{id} | Body: empty | Status: 200 | Status: 404 or 500 | Deletes an existing product |
| GET | /api/manufacturers | Body: empty | Status: 200  List of manufacturers | Status: 500 | Retrieves all manufacturers |
| GET | /api/manufacturers/{id} | Body: empty | Status: 200  Information of one manufacturer | Status: 500 | Retrieves information of one manufacturer |
| POST | /api/manufacturers | Body: new manufacturer data | Status: 200  New manufacturer with id information | Status: 500 | Creates new manufacturer |
| PUT | /api/manufacturers/{id} | Body: manufacturer data with updates | Status: 200  Body: Empty | Status: 404 or 500 | Updates an existing manufacturer |
| DELETE | /api/manufacturers/{id} | Body: empty | Status: 200 | Status: 404 or 500 | Deletes an existing manufacturer |