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# Purpose of this document

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

# REST resources (services)

1. Get all products -> http://localhost:8080/api/products/
2. Find product by id -> http://localhost:8080/api/products/
3. Add new product-> http://localhost:8080/api/products/
4. Edit product -> http://localhost:8080/api/products/{id}
5. Delete product -> http://localhost:8080/api/products/{id}
6. Get all manufacturers -> http://localhost:8080/api/manufacturers/
7. Add new manufacturer -> http://localhost:8080/api/manufacturers/
8. Find manufacturer by id -> http://localhost:8080/api/manufacturers/{id}
9. Delete manufacturer -> http://localhost:8080/api/manufacturers/{id}
10. Edit manufacturer -> http://localhost:8080/api/manufacturers/{id}

# REST requests and responses

## 1 Get all products

HTTP method: GET

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

Request body: -

Response example below:

[

    {

        "id": 4,

        "name": "JoustavaMeno",

        "type": "haalari",

        "price": 59.0,

        "manufacturer": {

            "id": 2,

            "name": "M&M"

        }

    },

    {

        "id": 5,

        "name": "70-luku",

        "type": "haalari",

        "price": 32.0,

        "manufacturer": {

            "id": 3,

            "name": "Leikki"

        }

    },

    {

        "id": 6,

        "name": "LämpöisäHaukku",

        "type": "talvihaalari",

        "price": 92.0,

        "manufacturer": {

            "id": 3,

            "name": "Leikki"

        }

    }

]

## 2 Find product by id

HTTP method: GET

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

Request body: -

Response example below (Status 200 OK):

{

    "id": 4,

    "name": "JoustavaMeno",

    "type": "haalari",

    "price": 59.0,

    "manufacturer": {

        "id": 2,

        "name": "M&M"

    }

}

## 3 Add new product

HTTP method: POST

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

Request body:

{

    "name": "Pipo2",

    "type": "päähine",

    "price": 13.0,

    "manufacturer": {

        "id": 2

    }

}

Response example below (Status 200 OK):

{

    "id": 7,

    "name": "Pipo2",

    "type": "päähine",

    "price": 13.0,

    "manufacturer": {

        "id": 2,

        "name": **null**

    }

}

## 4 Edit product

HTTP method: PUT

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

Request body:

{

    "name": "testNameUpdated2",

    "type": "testihaalari",

    "price": 10.0,

    "manufacturer": {

        "id": 2

    }

}

Response example below (Status 200 OK):

{

    "id": 4,

    "name": "testNameUpdated2",

    "type": "testihaalari",

    "price": 10.0,

    "manufacturer": {

        "id": 2,

        "name": "M&M"

    }

}

## 5 Delete product

HTTP method: DELETE

API call: http://localhost:8080/api/products/6

Request body: -

Response: Status 200 OK

## 6 Get all manufacturers

HTTP method: GET

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

Request body: -

Response example below:

[

    {

        "id": 1,

        "name": " "

    },

    {

        "id": 2,

        "name": "M&M"

    },

    {

        "id": 3,

        "name": "Leikki"

    }

]

## 7 Add new manufacturer

HTTP method: POST

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

Request body:

{

    "name": "Ressu"

}

Response example below (Status 200 OK):

{

    "id": 7,

    "name": "Ressu"

}

## 8 Find manufacturer by id

HTTP method: GET

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

Request body: -

Response example below (Status 200 OK):

{

    "id": 3,

    "name": "Leikki"

}

## 9 Delete manufacturer

HTTP method: DELETE

API call: http://localhost:8080/api/manufacturers/7

Request body: -

Response: Status 200 OK

## 10 Edit manufacturer

HTTP method: PUT

API call: http://localhost:8080/api/manufacturers/8

Request body:

{

    "name": "Redford"

}

Response example below (Status 200 OK):

{

    "id": 8,

    "name": "Redford"

}

# 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} | Body: empty | Status: 200 Requested product information | Status: 404 or 500 | Get information of one product |
| POST | /api/products | Body: new product data | Status: 200  New product with id information | Status: 500 | Creates new product |
| PUT | /api/products | N/A | N/A | Status: 400 | Method not allowed |
| DELETE | /api/products | N/A | N/A | Status: 400 | Method not allowed |
| POST | /api/products/{id} | N/A | N/A | Status: 400 | Method not allowed |
| 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 Requested manufacturer information | Status: 404 or 500 | Get 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 | N/A | N/A | Status: 400 | Method not allowed |
| DELETE | /api/ manufacturers | N/A | N/A | Status: 400 | Method not allowed |
| POST | /api/manufacturers/{id} | N/A | N/A | Status: 400 | Method not allowed |
| 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. |