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Contents

Purpose of this document	1
REST resources (services)	1
REST requests and responses	2
1 Get all products	2
2 Get all manufacturers	3
3 Insert new product	4
4 Edit product	5
5 Delete product	6
6 Get one product	6
7 Get type from product	7
HTTP methods	8

Purpose of this document

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

REST resources (services)

1. Get all products -> `http://localhost:8080/products`
2. Get all manufacturers -> `http://localhost:8080/manufacturers`
3. Insert new product-> `http://localhost:8080/products`
4. Edit product -> `http://localhost:8080/products/{id}`
5. Delete product -> `http://localhost:8080/products/{id}`
6. Get one product-> `http://localhost:8080/products/id/{id}`
7. Get type from product-> `http://localhost:8080/products/type/{type}`

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REST requests and responses

1 Get all products

HTTP method: GET

API call: <http://localhost:8080/products>

Request body: -

Response example below:

```
[
  {
    "id": 1,
    "name": "Kiva",
    "type": "shirt",
    "size": "M",
    "color": "blue",
    "price": 15.15,
    "manufacturer": {
      "manufacturerid": 1,
      "name": "Adidas"
    }
  },
  {
    "id": 2,
    "name": "Ok",
    "type": "shirt",
    "size": "M",
    "color": "red",
    "price": 10.1,
    "manufacturer": {
      "manufacturerid": 2,
      "name": "Puma"
    }
  }
]
```

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2 Get all manufacturers

HTTP method: GET

API call: <http://localhost:8080/manufacturers>

Request body: -

Response example below:

```
[
  {
    "manufacturerid": 1,
    "name": "Adidas",
    "products": [
      {
        "id": 1,
        "name": "Kiva",
        "type": "shirt",
        "size": "M",
        "color": "blue",
        "price": 15.15
      }
    ]
  },
  {
    "manufacturerid": 2,
    "name": "Puma",
    "products": [
      {
        "id": 2,
        "name": "Ok",
        "type": "shirt",
        "size": "M",
        "color": "red",
        "price": 10.1
      }
    ]
  }
]
```

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3 Insert new product

HTTP method: POST

API call: <http://localhost:8080/products>

Request body:

```
{
  "name": "Tiikeri",
  "type": "jacket",
  "size": "M",
  "color": "orange",
  "price": 33.33,
  "manufacturer": {
    "manufacturerid": 2,
    "name": "Puma"
  }
}
```

Response example below (Status 200 OK):

```
{
  "id": 5,
  "name": "Tiikeri",
  "type": "jacket",
  "size": "M",
  "color": "orange",
  "price": 33.33,
  "manufacturer": {
    "manufacturerid": 2,
    "name": "Puma"
  }
}
```

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4 Edit product

HTTP method: PUT

API call: <http://localhost:8080/products/5>

Request body:

```
{
  "name": "Tiikeri Muokattuna",
  "type": "jacket",
  "size": "S",
  "color": "orange",
  "price": 44.44,
  "manufacturer": {
    "manufacturerid": 2,
    "name": "Puma"
  }
}
```

Response example below (Status 200 OK):

```
{
  "id": 5,
  "name": "Tiikeri Muokattuna",
  "type": "jacket",
  "size": "S",
  "color": "orange",
  "price": 44.44,
  "manufacturer": {
    "manufacturerid": 2,
    "name": "Puma"
  }
}
```

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5 Delete product

HTTP method: DELETE

API call: <http://localhost:8080/products/5>

Request body: -

Response: Status 200 OK

6 Get one product

HTTP method: GET

API call: <http://localhost:8080/products/id/1>

Request body: -

Response example below:

```
{
  "id": 1,
  "name": "Kiva",
  "type": "shirt",
  "size": "M",
  "color": "blue",
  "price": 15.15,
  "manufacturer": {
    "manufacturerid": 1,
    "name": "Adidas"
  }
}
```

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7 Get type from product

HTTP method: GET

API call: <http://localhost:8080/products/type/shirt>

Request body: -

Response example below:

```
[
  {
    "id": 1,
    "name": "Kiva",
    "type": "shirt",
    "size": "M",
    "color": "blue",
    "price": 15.15,
    "manufacturer": {
      "manufacturerid": 1,
      "name": "Adidas"
    }
  },
  {
    "id": 2,
    "name": "Ok",
    "type": "shirt",
    "size": "M",
    "color": "red",
    "price": 10.1,
    "manufacturer": {
      "manufacturerid": 2,
      "name": "Puma"
    }
  }
]
```

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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	/manufacturers	Body: empty	Status: 200 List of manufacturers	Status 500	Retrieves all manufacturers
POST	/products	Body: new product data	Status: 200 New product with id information	Status: 500	Creates new product
PUT	/products	N/A	N/A	Status: 400	Method not allowed
DELETE	/products	N/A	N/A	Status: 400	Method not allowed
GET	/products/id/{id}	Body: empty	Status: 200 product with id information	Status: 500	Get information of one product
GET	/products/type/{type}	Body: empty	Status: 200 List of products with type/{type}	Status: 500	Get information of a certain type from products
POST	/products/id/{id}	N/A	N/A	Status: 400	Method not allowed
PUT	/products/{id}	Body: product data with updates	Status: 200 Body: updated product with id information	Status:404 or 500	Updates an existing product
DELETE	/products/{id}	Body: empty	Status: 200 List of remaining products	Status:404 or 500	Deletes an existing product