Contents

[Purpose of this document 1](#_Toc182475862)

[REST resources (services) 1](#_Toc182475863)

[REST requests and responses 2](#_Toc182475864)

[1 Get all products 2](#_Toc182475865)

[2 Get all manufacturers 3](#_Toc182475866)

[3 Get all types 4](#_Toc182475867)

[4 Get all products of a type, by type name 6](#_Toc182475868)

[HTTP methods 7](#_Toc182475869)

# Purpose of this document

This document describes what REST services are provided in the Tiimi 2 pet shop app. It contains all needed information so that client can be implemented.

# REST resources (services)

1. Get all products -> <http://localhost:8080/api/products>
2. Get all types -> <http://localhost:8080/api/types>
3. Get all manufacturers -> <http://localhost:8080/api/manufacturers>
4. Get all products with certain type -> [http://localhost:8080/rest/products/type/{type\_name}](http://localhost:8080/rest/products/type/%7btype_name%7d)

# REST requests and responses

## 1 Get all products

HTTP method: GET

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

Request body: -

Response example below:

{

"\_embedded": {

"products": [

{

"name": "Padded collar",

"color": "black",

"price": 14.49,

"size": "S",

"\_links": {

"self": {

"href": "http://localhost:8080/api/products/1"

},

"product": {

"href": "http://localhost:8080/api/products/1"

},

"type": {

"href": "http://localhost:8080/api/products/1/type"

},

"manufacturer": {

"href": "http://localhost:8080/api/products/1/manufacturer"

}

}

},

{

"name": "Shirt",

"color": "red",

"price": 9.99,

"size": "L",

"\_links": {

"self": {

"href": "http://localhost:8080/api/products/2"

},

"product": {

"href": "http://localhost:8080/api/products/2"

},

"type": {

"href": "http://localhost:8080/api/products/2/type"

},

"manufacturer": {

"href": "http://localhost:8080/api/products/2/manufacturer"

}

}

}

]

},

"\_links": {

"self": {

"href": "http://localhost:8080/api/products"

},

"profile": {

"href": "http://localhost:8080/api/profile/products"

},

"search": {

"href": "http://localhost:8080/api/products/search"

}

}

}

## 2 Get all manufacturers

HTTP method: GET

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

Request body: -

Response example below:

{

"\_embedded": {

"manufacturers": [

{

"name": "Feel active",

"\_links": {

"self": {

"href": "http://localhost:8080/api/manufacturers/1"

},

"manufacturer": {

"href": "http://localhost:8080/api/manufacturers/1"

},

"products": {

"href": "http://localhost:8080/api/manufacturers/1/products"

}

}

}

]

},

"\_links": {

"self": {

"href": "http://localhost:8080/api/manufacturers"

},

"profile": {

"href": "http://localhost:8080/api/profile/manufacturers"

}

}

}

## 3 Get all types

HTTP method: GET

API call: <http://localhost:8080/rest/types>

Request body: -

Response example below:

{

"\_embedded": {

"types": [

{

"name": "clothing",

"id": 1,

"\_links": {

"self": {

"href": "http://localhost:8080/api/types/1"

},

"type": {

"href": "http://localhost:8080/api/types/1"

},

"products": {

"href": "http://localhost:8080/api/types/1/products"

}

}

},

{

"name": "toy",

"id": 2,

"\_links": {

"self": {

"href": "http://localhost:8080/api/types/2"

},

"type": {

"href": "http://localhost:8080/api/types/2"

},

"products": {

"href": "http://localhost:8080/api/types/2/products"

}

}

},

{

"name": "food",

"id": 3,

"\_links": {

"self": {

"href": "http://localhost:8080/api/types/3"

},

"type": {

"href": "http://localhost:8080/api/types/3"

},

"products": {

"href": "http://localhost:8080/api/types/3/products"

}

}

}

]

},

"\_links": {

"self": {

"href": "http://localhost:8080/api/types"

},

"profile": {

"href": "http://localhost:8080/api/profile/types"

}

}

}

## 4 Get all products of a type, by type name

HTTP method: GET

API call: [http://localhost:8080/rest/products/type/{type\_name}](http://localhost:8080/rest/products/type/%7btype_name%7d)

Request body: -

Response example below:

[

{

"id": 1,

"name": "Padded collar",

"color": "black",

"price": 14.49,

"size": "S",

"manufacturer": {

"id": 1,

"name": "Feel active"

},

"type": {

"name": "clothing",

"id": 1

}

},

{

"id": 2,

"name": "Shirt",

"color": "red",

"price": 9.99,

"size": "L",

"manufacturer": {

"id": 1,

"name": "Feel active"

},

"type": {

"name": "clothing",

"id": 1

}

}

]

# HTTP methods

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Http**  **Method** | **Resource EndPoint** | **Input** | **Success Response** | **Error**  **Response** | **Description** |
| GET | /rest/cars | Body: empty | Status: 200  List of products | Status 500 | Retrieves all products |
| GET | /rest/manufacturers | Body: empty | Status: 200  List of manufacturers | Status 500 | Retrieves all manufacturers |
| GET | /rest/types | Body: empty | Status: 200  List of product types | Status 500 | Retrieves all product types |
| GET | /rest/products/type/{typename} | Body: empty | Status: 200  List of products | Status 500 | Retrieves a list of products of a certain type searched by type name |