

Customer Restful API

General

Customer Db contains personal trainer's customers and their trainings (One-to-many link between customer and training. Training belongs to one customer).

Customer contains following attributes:

- id (long)
- firstname (String)
- lastname (String)
- streetaddress (String)
- postcode (String)
- city (String)
- email (String)
- phone (String)

Training contains following attributes:

- id (long)
- date (Date)
- duration in minutes (int)
- activity (String)
- Customer (customer.id)

Get API content by calling the root address

<https://customerrest.herokuapp.com/api>

```
▼ links:
  ▼ 0:
    rel:    "trainings"
    href:   "https://customerrest.herokuapp.com/api/trainings"
  ▼ 1:
    rel:    "customers"
    href:   "https://customerrest.herokuapp.com/api/customers"
  ▼ 2:
    rel:    "profile"
    href:   "https://customerrest.herokuapp.com/api/profile"
```

List of customers

You can fetch all customers by calling **/customers** endpoint using the **GET** method.

```
▶ links:          [...]
▼ content:
  ▼ 0:
    firstname:    "Dan"
    lastname:     "Davidson"
    streetaddress: "32 Main Road"
    postcode:     "23130"
    city:         "Flintsone"
    email:        "dan.d@mail.com"
    phone:        "232-1227006"
    content:      []
  ▼ links:
    ▼ 0:
      rel:        "self"
      href:       "https://customerrest.herokuapp.com/api/customers/3"
    ▼ 1:
      rel:        "customer"
      href:       "https://customerrest.herokuapp.com/api/customers/3"
    ▼ 2:
      rel:        "trainings"
      ▼ href:     "https://customerrest.herokuapp.com/api/customers/3/trainings"
  ▼ 1:
    firstname:    "Tylar"
    lastname:     "Orrell"
    streetaddress: "70 Bowman Street"
```

Get customer by Id

You can fetch one customer by calling **/customers/{id}** endpoint with customer's Id and using the **GET** method.

```
  firstname: "Dan"
  lastname: "Davidson"
  streetaddress: "32 Main Road"
  postcode: "23130"
  city: "Flintsone"
  email: "dan.d@mail.com"
  phone: "232-1227006"
  content: []
  links:
    0:
      rel: "self"
      href: "https://customerrest.herokuapp.com/api/customers/3"
    1:
      rel: "customer"
      href: "https://customerrest.herokuapp.com/api/customers/3"
    2:
      rel: "trainings"
      href: "https://customerrest.herokuapp.com/api/customers/3/trainings"
```

Get customer's trainings

You can fetch customer's trainings by calling **/customers/{id}/trainings** endpoint using the **GET** method. This link is also provided in customer JSON object (See the previous image `_links.trainings`).

Delete customer

You can delete customer by calling **/customers/{id}** endpoint using the **DELETE** method. Note! Customer deletion deletes also all trainings from the customer.

Add a new customer

You can add new customer by calling **/customers** endpoint using the **POST** method and giving a new customer inside the request body as a JSON string

Header: **'Content-Type': 'application/json'**

Body:

```
{
  firstname: "John"
  lastname: "Smith"
  email: "j.s@smith.com"
  phone: "343-2332345"
```

```
streetaddress: "Yellow Street 23"
postcode: "344342"
city: "Yellowstone"
}
```

Update existing customer

You can update customer by calling **/customers/{id}** endpoint using the **PUT** method and giving a updated customer inside the request body as a JSON string

Header: 'Content-Type': 'application/json'

Body:

```
{
  firstname: "John"
  lastname: "Smith"
  email: "j.s@smith.com"
  phone: "342-2332345"
  streetaddress: "Yellow Street 23"
  postcode: "144342"
  city: "Yellowstone"
}
```

Add training and link it to customer

You can add new training by calling **/trainings** endpoint using the **POST** method and giving a new training with customer reference link inside the request body as a JSON string.

Header: 'Content-Type': 'application/json'

Body:

```
{
  date: "2018-1-1",
  activity: "Spinning",
  duration: "50",
  customer: "https://localhost:8080/api/customers/2"
}
```

NOTE! To save also time of the training (for example 27.11.19 09:00) the format must be ISO-8601 (You can use for example moment's `toISOString()` function)

2019-11-27T09:00:00.000+0000

Delete training

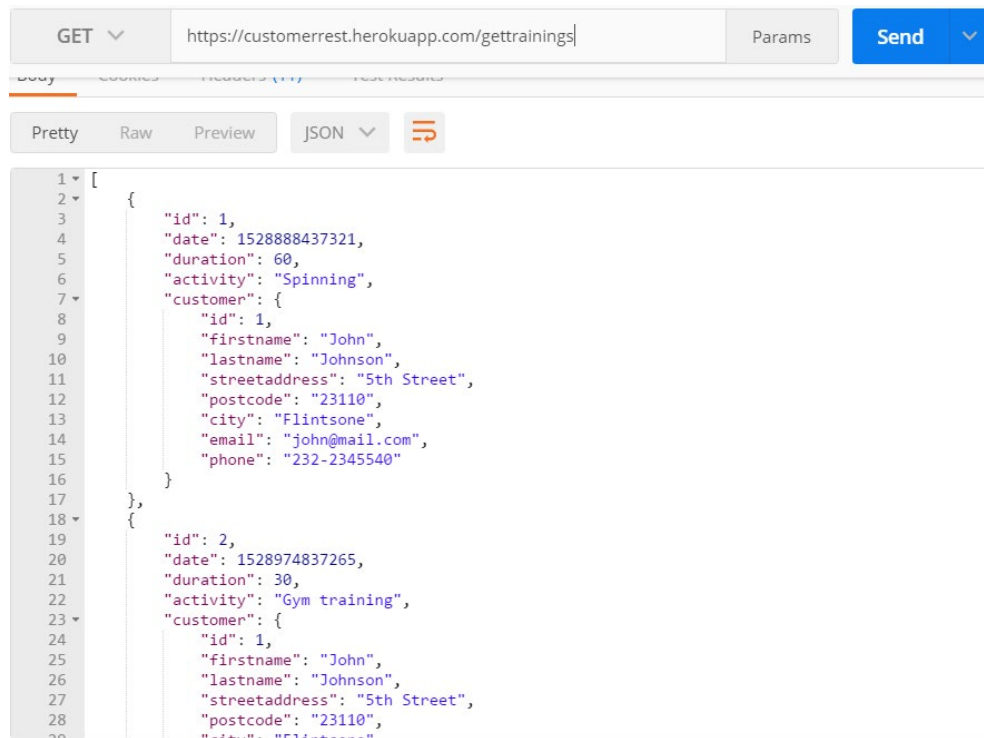
You can delete training by calling **/trainings/{id}** endpoint using the **DELETE** method

Get trainings (with customer info)

Note! You can use this in training list page to show also customer.

You can get all trainings with customer info by calling **https://customerrest.herokuapp.com/gettrainings** endpoint using the **GET** method.

Date is the number of milliseconds passed since January 1, 1970, 00:00:00 GMT and you can use moment's `format()` function to show it in some other date format.



The screenshot shows a REST client interface with a GET request to `https://customerrest.herokuapp.com/gettrainings`. The response is a JSON array of two training objects, each associated with a customer.

```
1 [
2   {
3     "id": 1,
4     "date": 152888437321,
5     "duration": 60,
6     "activity": "Spinning",
7     "customer": {
8       "id": 1,
9       "firstname": "John",
10      "lastname": "Johnson",
11      "streetaddress": "5th Street",
12      "postcode": "23110",
13      "city": "Flintsone",
14      "email": "john@mail.com",
15      "phone": "232-2345540"
16    }
17  },
18  {
19    "id": 2,
20    "date": 1528974837265,
21    "duration": 30,
22    "activity": "Gym training",
23    "customer": {
24      "id": 1,
25      "firstname": "John",
26      "lastname": "Johnson",
27      "streetaddress": "5th Street",
28      "postcode": "23110",
29      "city": "Flintsone"
```