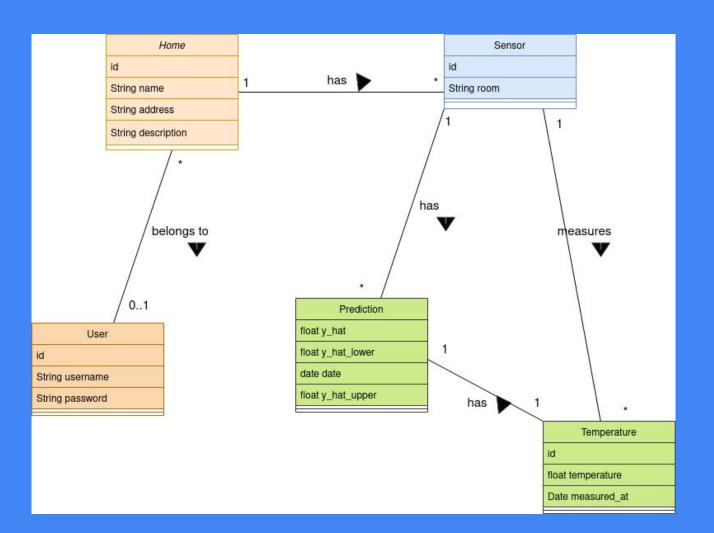
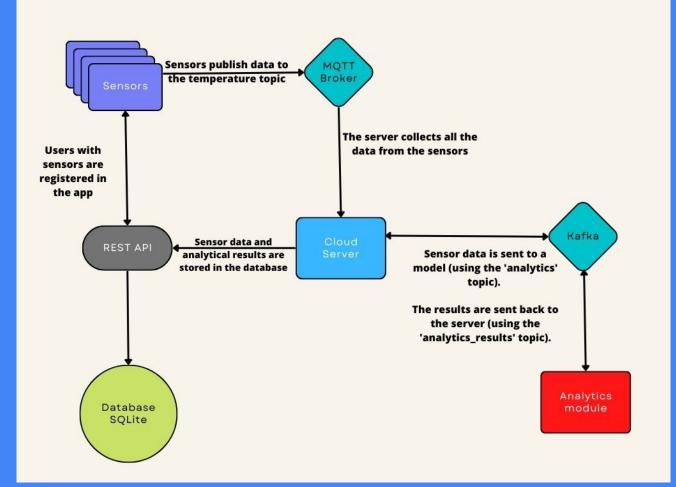
# MyClimate API DEMO

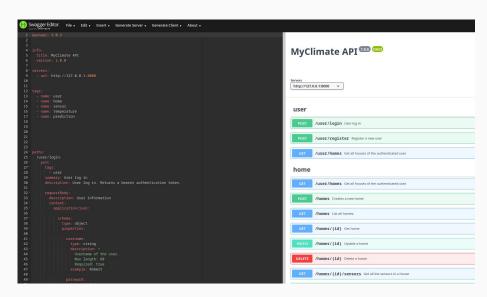
Marc Vivas Baiges





### API endpoints documentation

Open <a href="https://editor.swagger.io/">https://editor.swagger.io/</a> and import api\_docs.yaml.



#### How to run the API?

## Web service demo

### User register

/user/register Register a new user

- All endpoints require an **authentication token** that can only be obtained when a new user is created or when a user logs in.

```
User information

{
    "username": "Robert",
    "password": "1234"
}
```

```
Request URL

http://127.0.0.1:8000/user/register

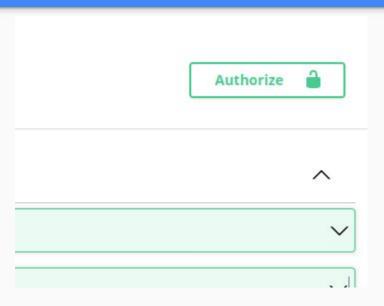
Server response

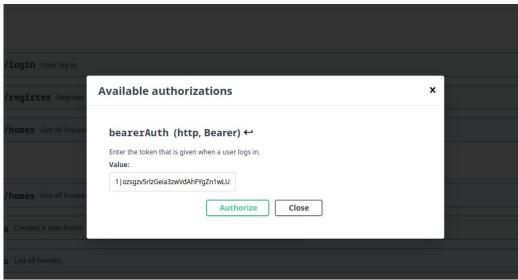
Code Details

201 Response body

{
    "data": {
        "token": "1|ozsgzv5rlzGeia3zwVdAhFYgZn1wLUNlmyooia4W"
    }
}
```

### Remember to authorize the requests!





## 1. Create three different Homes with similar

descriptions

POST /homes Creates a new home

```
curl -X 'POST' \
  'http://127.0.0.1:8000/homes' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer 1|ozsgzv5rlzGeia3zwVdAhFYgZn1wLUNlmyooia4W' \
  -H 'Content-Type: application/json' \
  -d '{
    "name": "Mansion",
    "address": "Avocado Street 4",
    "description": "Michael Knight apartment"
}'
```

```
Home information

{
    "name": "Mansion",
    "address": "Avocado Street 4",
    "description": "Michael Knight apartment"
}
```

```
Code Details

Response body

{
    "data": {
        "id": 1,
        "name": "Mansion",
        "address": "Avocado Street 4",
        "description": "Michael Knight apartment",
        "user_id": 1
    }
}
```

#### 1. Create the second house

```
Home information

{
    "name": "Mansion",
    "address": "Watermelon Street 4",
    "description": "Michael Bolton flat"
}
```

```
Code Details

201

Response body

{
    "data": {
        "id": 2,
        "name": "Mansion",
        "address": "Watermelon Street 4",
        "description": "Michael Bolton flat",
        "user_id": 1
    }
}
```

#### 1. Create the third house

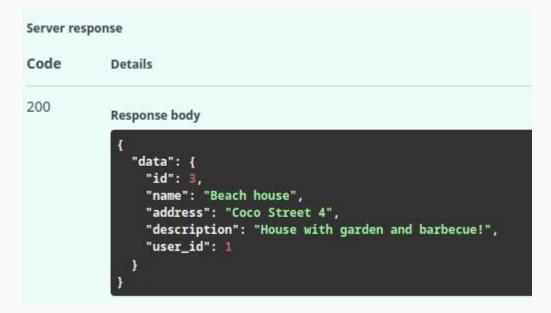
```
Home information

{
    "name": "Beach house",
    "address": "Coco Street 4",
    "description": "House with garden!"
}
```

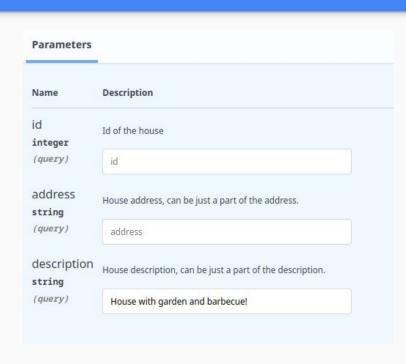
```
Server response
Code
            Details
201
            Response body
               "data": {
                 "id": 3,
                 "name": "Beach house",
                 "address": "Coco Street 4",
                 "description": "House with garden!",
                 "user_id": 1
```

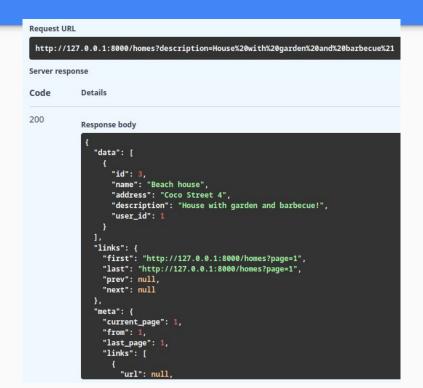
### 2. Modify the description of the 3rd house

Parameters	
Name	Description
id * required	Home identifier
(path)	3
Request bod	у
Home inforn	nation
{   "descrip }	tion": "House with garden and barbecue!"



### 3. Search a house by its description (full)





#### 4. Delete the second house created



Request L	JRL
http://	/127.0.0.1:8000/homes/2
Server res	sponse
Code	Details
204	Response headers
	cache-control: no-cache,private

#### 5. List all homes

Parameters	
Name	Description
id integer	Id of the house
(query)	id
address string (query)	House address, can be just a part of the address.
	address
description string (query)	House description, can be just a part of the description.
	description

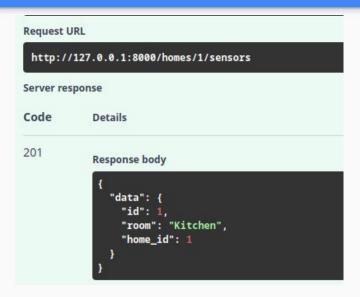
GET

/homes List all homes.

```
Request URL
 http://127.0.0.1:8000/homes
Server response
Code
           Details
200
           Response body
              "data": [
                  "id": 1,
                  "name": "Mansion",
                  "address": "Avocado Street 4",
                  "description": "Michael Knight apartment",
                  "user_id": 1
                  "id": 3,
                  "name": "Beach house",
                  "address": "Coco Street 4",
                  "description": "House with garden and barbecue!",
                  "user_id": 1
              "links": {
                "first": "http://127.0.0.1:8000/homes?page=1",
                "last": "http://127.0.0.1:8000/homes?page=1",
                "prev": null,
                "next": null
```

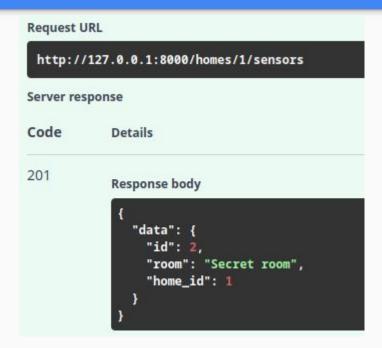
#### 6. Create two sensors in the first House

Name	Description	
d * required	House id	
(path)	1.1	
pueny	L	
Request bod	lv required	
Request bod	ly <sup>required</sup>	
Request bod		



#### 6. Create two sensors in the first House





#### 7. List first house sensors



```
Server response
Code
            Details
200
            Response body
               "data": [
                  "id": 1,
                  "room": "Kitchen",
                   "home id": 1
                  "id": 2,
                  "room": "Secret room",
                   "home id": 1
               "links": {
                "first": "http://127.0.0.1:8000/homes/1/sensors?page=1",
                "last": "http://127.0.0.1:8000/homes/1/sensors?page=1",
                 "prev": null,
                "next": null
               "meta": {
                "current_page": 1,
                "from": 1,
                 "last_page": 1,
            Response headers
```

#### 8. Create another user

```
Request body required
User information
   "username": "Charles",
   "password": "1234"
```

```
Code Details

201

Response body

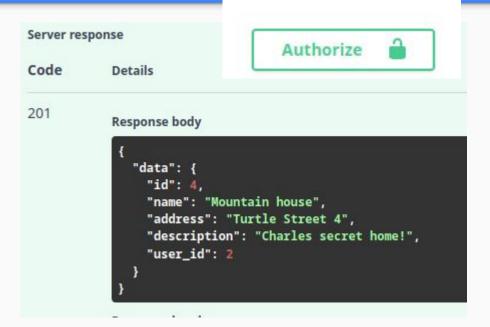
{
    "data": {
        "token": "2|EcXnVKKJq3DzmomUXbq1NiBzrvUyn09LjuiLfy5t"
    }
}

Response headers
```

### 9. Upload a home using the new user

```
Home information

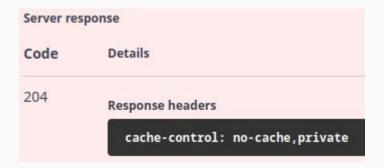
{
    "name": "Mountain house",
    "address": "Turtle Street 4",
    "description": "Charles secret home!"
}
```



#### 10. Delete the uploaded home of the new user

Only the owner of the house is allowed to delete it.





### 11. Search Home by its description (partial)

Parameters	
Name	Description
id integer (query)	Id of the house
	id
address string (query)	House address, can be just a part of the address.
	address
description string (query)	House description, can be just a part of the description.
	House

```
Server response
Code
           Details
200
           Response body
              "data": [
                  "id": 3.
                  "name": "Beach house",
                  "address": "Coco Street 4",
                  "description": "House with garden and barbecue!",
                  "user id": 1
              "links": {
                "first": "http://127.0.0.1:8000/homes?page=1",
                "last": "http://127.0.0.1:8000/homes?page=1",
                "prev": null,
                "next": null
               "meta": {
                "current_page": 1,
                "from": 1,
                "last_page": 1,
                "links": [
                    "url": null
```

### 12. Show its user (Not implemented)

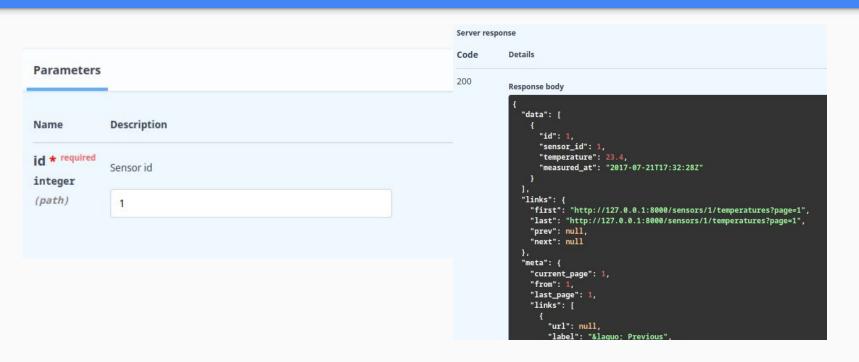
### 13. Create a new temperature measured by the first sensor of user 1.

/sensors/{id}/temperatures Create a new temperature



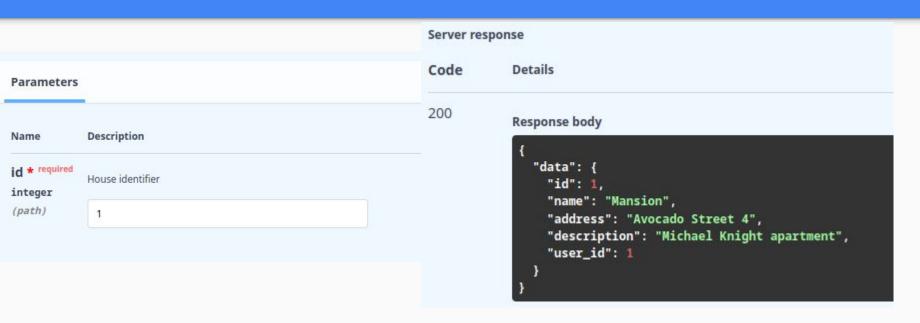
```
Server response
            Details
Code
201
            Response body
               "data": {
                 "temperature": 23.4,
                 "measured_at": "2017-07-21T17:32:28Z",
                 "sensor_id": 1,
                 "id": 1
```

### 13. Show the temperatures of sensor 1



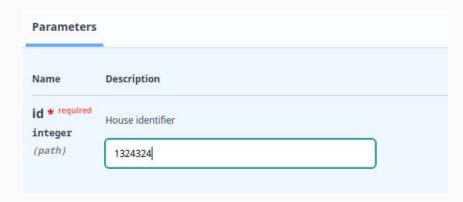


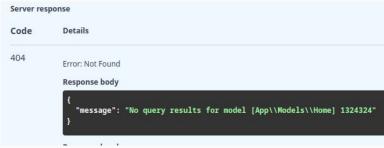
### 14. Check some ID from an existing home





#### 15. Check some other nonexistent ID





**Marc Vivas Baiges** 

More documentation in README.md and API\_README.md

