# Weather Station Service API

## POST /users

Register a new user to the system.

*Request description*

|  |  |  |
| --- | --- | --- |
| username | string | Publicly visible username |
| name | string | First and family name |
| dateOfBirth | string | Date of birth, RFC3339 format |
| address | string | User street address |
| city | string | User home city |
| country | string | User home country, two letter code |
| email | string | Valid email address for the user |

*Request body example*

{

"username": "Nacchofer",

"name": "Ignacio Ferrer",

"dateOfBirth": "1996-05-20",

"address": "La Calle de la Amargura",

"city": "Valencia",

"country": "es",

"email": "fercho@demo.com"

}

*Response*

Status codes

|  |  |
| --- | --- |
| 201 | User created successfully |
| 400 | Missing or incorrect data in the request |

*Response data structure description*

|  |  |  |
| --- | --- | --- |
| id | number | The id assigned to the created user |

*Response body example*

{

"id": 46783265

}

## GET /users/:id

Read the user with the specified id.

*Request body example for the id (*46783265)

{

"username": "Nacchofer",

"name": "Ignacio Ferrer",

"dateOfBirth": "1996-05-20",

"address": "La Calle de la Amargura",

"city": "Valencia",

"country": "es",

"email": "fercho@demo.com"

}

## POST /users/:id/sensors

Register a new sensor in the system

|  |  |  |
| --- | --- | --- |
| deviceType | string | Name of the device |
| description | string | Short description of the device |
| location | object | It contains the current location (Latitude, Longitude) of the device where it is retrieving data. |
| sensorTypes | array | It contains the different measuring variables of the device.  The different values possible are:   * Temperature * Humidity * Rainfall * Wind * Cloud Coverage   (F.e., [“Temperature”, “Wind”]) |

In the case of the object *location*, it contains the following values:

|  |  |  |
| --- | --- | --- |
| latitude | number | Float number representing the latitude of the sensor |
| longitude | number | Float number representing the longitude of the sensor. |

*Request body example*

{

"deviceType": "Rasberry PI",

"description": "Sensor located in sun shaded measurement box on top of a 12 story building",

"location": {

"latitude": 65,021545

"longitude": 25.469885

},

"sensorTypes": ["Temperature", "Wind"]

}

*Response*

Status codes

|  |  |
| --- | --- |
| 201 | Senso created successfully |
| 400 | Missing or incorrect data in the request |

*Response data structure description*

|  |  |  |
| --- | --- | --- |
| id | number | The id assigned to the created user |

*Response body example*

{

"id": 1111111

}