API Reference

Progetto CHeArIA

API Version: 1.0

Documentazione del backend del progetto CHeArIA

CONTACT

URL: https://progettochearia.it

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API

1. BOARD

REST API dedicate all'hardware del progetto, per esempio quella per caricare i dati su DB

1.1 GET /board/time

Gettime

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

1.2 GET /board/timems/{tz}

Gettimems

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*tz	string	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

1.3 GET /board/timems

Gettimems

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
tz	string	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

1.4 GET /board/time/hour

Gettime H

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

1.5 GET /board/time/min

Gettime Min

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

1.6 GET /board/date/{tz}

Getdate

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*tz	string	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

1.7 GET /board/date

Getdate

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
tz	string	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

1.8 PUT /board/putdata/{dataid}

Putdata

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*dataid	string PATTERN: (itwork|example|CO|altitude|humidity|ozone|pressure|temperature)	

REQUEST BODY - application/json

```
{
  datavalue*   number  The value of data from sensor
  timestamptz  string  2 to 3 chars
                       The timzone to use to calculate the timestamp
  key*         string  32 to 32 chars
                       The key for authenticate request
}
```

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - text/plain

```
string
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
```

```
        ANY OF
        prop0
        string
        prop1
        integer
      msg*  string
      type* string
    }]
}
```

2. RESOURCES

REST API dedicate alla gestione delle risorse, permettono di recuperare i dati dal DB e i grafici elaborati dal server

2.1 GET /resources/graph/all

List All Graphs

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
type	string	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

2.2 POST /resources/graph/query

Query Graph

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
dataid	array of string	
gte	string 10 to 19 chars	
lte	string 10 to 19 chars	

NAME	TYPE	DESCRIPTION
unique	string 10 to 10 chars PATTERN: ((((19|20)([2468][048]|[13579][26]|0[48])|2000)-02-29|((19|20)[0-9]{2}-(0[4678]|1[02])-(0[1-9]|[12][0-9]|30)|(19|20)[0-9]{2}-(0[1359]|11)-(0[1-9]|[12][0-9]|3[01])|(19|20)[0-9]{2}-02-(0[1-9]|1[0-9]|2[0-8]))))	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

2.3 GET /resources/datas

List All Data

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*datai d	array of string PATTERN: (itwork|example|CO|altitude|humidity|ozone|pressure|temperature)	
gte	string 10 to 19 chars PATTERN: ^(((((19|20)([2468][048]|[13579][26]|0[48])|2000)-02-29|((19|20)[0-9]{2}-(0[4678]|1[02])-(0[1-9]|[12][0-9]|30)|(19|20)[0-9]{2}-(0[1359]|11)-(0[1-9]|[12][0-9]|3[01])|(19|20)[0-9]{2}-02-(0[1-9]|1[0-9]|2[0-8])))_([01][0-9]|2[0-3]):([012345][0-9]):([012345][0-9]))|(((19|20)([2468][048]|[13579][26]|0[48])|2000)-02-29|((19|20)[0-9]{2}-(0[4678]|1[02])-(0[1-9]|[12][0-9]|30)|(19|20)[0-9]{2}-(0[1359]|11)-(0[1-9]|[12][0-9]|3[01])|(19|20)[0-9]{2}-02-(0[1-9]|1[0-9]|2[0-8])))))?$	Data d'inizio, ex: 2022-05-15_10:24:00 or 2022-05-15

NAME	TYPE	DESCRIPTION
lte	string 10 to 19 chars PATTERN: ^(((((19|20)([2468][048]|[13579][26]|0[48])|2000)-02-29|((19|20)[0-9]{2}-(0[4678]|1[02])-(0[1-9]|[12][0-9]|30)|(19|20)[0-9]{2}-(0[1359]|11)-(0[1-9]|[12][0-9]|3[01])|(19|20)[0-9]{2}-02-(0[1-9]|1[0-9]|2[0-8])))_([01][0-9]|2[0-3]):([012345][0-9]):([012345][0-9]))|(((19|20)([2468][048]|[13579][26]|0[48])|2000)-02-29|((19|20)[0-9]{2}-(0[4678]|1[02])-(0[1-9]|[12][0-9]|30)|(19|20)[0-9]{2}-(0[1359]|11)-(0[1-9]|[12][0-9]|3[01])|(19|20)[0-9]{2}-02-(0[1-9]|1[0-9]|2[0-8])))?$	Data di fine, ex: 2022-10-15_16:12:00 or 2022-10-15
day	string 10 to 10 chars PATTERN: ^(((19|20)([2468][048]|[13579][26]|0[48])|2000)-02-29|((19|20)[0-9]{2}-(0[4678]|1[02])-(0[1-9]|[12][0-9]|30)|(19|20)[0-9]{2}-(0[1359]|11)-(0[1-9]|[12][0-9]|3[01])|(19|20)[0-9]{2}-02-(0[1-9]|1[0-9]|2[0-8])))?$	Giorno singolo, ex: 2022-10-15
type	string PATTERN: (html|json)	
sort	string PATTERN: (asc|desc)	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

2.4 GET /resources/datas/last

List Last Data

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*dataid	array of string PATTERN: (itwork|example|CO|altitude|humidity|ozone|pressure|temperature)	
type	string PATTERN: (html|json)	

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
  Array of object:
    loc*
      ANY OF
      prop0
      string
      prop1
      integer
    msg*  string
    type* string
  }]
}
```

2.5 GET /resources/datas_stream

Datas Streams

Questa funzione restituisce uno streaming dei dai che arrivano dai sensori

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined
