Progetto CHeArIA

Overview

Documentazione del backend del progetto CHeArIA

Tags

resources

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

board

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

Paths

GET `/board/time` Gettime

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links

GET `/board/timems/{tz}` Gettimems

Parameters

Type	Name	Description	Schema
path	**tz** *required*		string

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links
422	Validation Error *Content* **application/json**	No Links

GET /board/timems **Gettimems**

Parameters

Type	Name	Description	Schema
query	**tz** *optional*		string

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links
422	Validation Error *Content* **application/json**	No Links

GET /board/time/hour **Gettime H**

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links

GET /board/time/min **Gettime Min**

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links

GET /board/date/{tz} Getdate

Parameters

Type	Name	Description	Schema
path	**tz** *required*		string

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links
422	Validation Error *Content* **application/json**	No Links

GET /board/date Getdate

Parameters

Type	Name	Description	Schema
query	**tz** *optional*		string

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links
422	Validation Error *Content* **application/json**	No Links

PUT `/board/putdata/{dataid}` **Putdata**

Parameters

Type	Name	Description	Schema
path	**dataid** *required*		string

Responses

Code	Description	Links
200	Successful Response *Content* **text/plain**	No Links
422	Validation Error *Content* **application/json**	No Links

GET `/resources/graph/all` **Lista di tutti i grafici**

Parameters

Type	Name	Description	Schema
query	**type** *optional*		string

Responses

Code	Description	Links
200	Return all graphs *Content* **application/json** **Title**: Graphs	No Links
422	Validation Error *Content* **application/json**	No Links

POST `/resources/graph/query` **Query Graph**

Parameters

Type	Name	Description	Schema
query	**dataid** *optional*		< string > array
query	**unique** *optional*		string
query	**gte** *optional*		string
query	**lte** *optional*		string

Responses

Code	Description	Links
200	Successful Response *Content* **application/json**	No Links
422	Validation Error *Content* **application/json**	No Links

GET `/resources/datas` **Cerca i dati per tipo**

Questa funzione permette di cercare per dato e per tipo i dati raccolti nel DB, [Trova i dati](https://web.progettochearia.it)

Parameters

Type	Name	Description	Schema
query	**dataid** *required*		< string > array
query	**gte** *optional*	Data d'inizio, ex: 2022-05-15_10:24:00 or 2022-05-15	string
query	**sort** *optional*		string
query	**lte** *optional*	Data di fine, ex: 2022-10-15_16:12:00 or 2022-10-15	string
query	**type** *optional*		string
query	**day** *optional*	Giorno singolo, ex: 2022-10-15	string

Responses

Code	Description	Links
200	sucess response *Content* **application/json**	No Links
422	Validation Error *Content* **application/json**	No Links

GET `/resources/datas/last` **Ritorna l'ultimo dato per tipo**

Parameters

Type	Name	Description	Schema
query	**dataid** *required*		< string > array
query	**type** *optional*		string

Responses

Code	Description	Links
200	sucess response *Content* **application/json**	No Links
422	Validation Error *Content* **application/json**	No Links

GET `/resources/datas_stream` **Stream dei dati in tempo reale**

Questa funzione restituisce uno streaming dei dai che arrivano dai sensori

Responses

Code	Description	Links
200	Successful Response *Content* **application/json**	No Links

Components

Schemas

DataResponse

Title: DataResponse

Properties

Name	Description	Schema
dataid *required*		[_components_schemas_routers*resources*data]

DatasResponse

Title: DatasResponse

Properties

Name	Description	Schema
dataid *required*	**Title**: Dataid	< [_components_schemas_routers*resources*data] > array

HTTPValidationError

Title: HTTPValidationError

Properties

Name	Description	Schema
detail *optional*	**Title**: Detail	< ValidationError > array

Metadata

Title: Metadata

Properties

Name	Description	Schema
id *required*	**Title**: Id	string

ValidationError

Title: ValidationError

Properties

Name	Description	Schema
loc *required*	**Title**: Location	< > array
msg *required*	**Title**: Message	string
type *required*	**Title**: Error Type	string

routers*board*Data

Title: Data

Properties

Name	Description	Schema
datavalue *required*	The value of data from sensor **Title**: Datavalue	number
timestamptz *optional*	The timzone to use to calculate the timestamp **Maximum Length**: 3 **Minimum Length**: 2 **Title**: Timestamptz	string
key *required*	The key for authenticate request **Maximum Length**: 32 **Minimum Length**: 32 **Title**: Key	string (binary)

routers*resources*Data

Title: Data

Properties

Name	Description	Schema
time *required*	**Title**: Time	string
value *required*	**Title**: Value	number
metadata *required*		Metadata