**Rakunine**CMS

**Backend API: Documentation**

# Available Methods

|  |  |  |
| --- | --- | --- |
| URL | Method | Description |
| /emergency | POST | Creates a new emergency |
| /getEmergencies | GET | Returns all of the emergencies |
| /getEmergency/:emergencyID | GET | Returns the emergency whose ID matches ‘emergencyID’ |
| /emergency/:emergencyID | PUT | Updates the emergency whose ID matches ‘emergencyID’ |
| /emergency/:emergencyID | DELETE | Deletes the emergency controller whose ID matches ‘emergencyID’ |
| /weatherStationsList | GET | Returns a list of the most recent weather stations |
| /weatherStationInformation | GET | Returns a list of all of the weather stations' information |
| /weatherStationInformation/:stationID | GET | Returns a list of all the stations' information of the weather stations matching ‘stationID’ |
| /PSIStationsList | GET | Returns a list of the most recent PSI stations |
| /PSIStationInformation | GET | Returns a list of all of the PSI stations' information |
| /DengueInformation | GET | Returns a list of all dengue clusters |

# Method Descriptions

## POST /emergency

When an HTTP POST request is made to /emergency, it is required that a JSON object containing certain parameters is passed inside the body of the request. The parameters can be seen in the table below. After the request is made to the server, an entry is created in the database. Then, an alert is sent out to the relevant emergency service department, which then takes care of the emergency request.

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| name | Name of the person | String |
| mobile | Mobile phone number of the person | Number |
| postcode | Postcode of the person | String |
| bldgNumber | Building number | String |
| emergencyType | Type of emergency of the person | String |
| status | Status displaying pending or solved | String |
| Location {latitude} | Latitude coordinate of the emergency’s location | Number |
| Location {longitude} | Longitude coordinate of the emergency’s location | Number |

### Example request

POST <http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/emergency>

##### HTTP Request Body

{

"name": "Hardit",

"mobile": 9397054324,

"postcode": "623814",

"bldgNumber": "045-04-654",

"emergencyType": "FireEmergency",

"location": {

"latitude": 1.3521974,

"longitude": 103.6853002

}

}

### Example response

{

"\_id": "5bc5f41e72a887709c51a42e",

"name": "Hardit",

"mobile": 9397054324,

"postcode": "623814",

"bldgNumber": "045-04-654",

"emergencyType": "FireEmergency",

"location": {

"latitude": 1.3521974,

"longitude": 103.6853002

},

"status": "Pending",

"createdAt": "2018-10-16T14:22:22.051Z",

"updatedAt": "2018-10-16T14:22:22.051Z",

"\_\_v": 0

}

## 

## GET /getEmergencies

Returns a list of all emergency entries of the database with the following parameters as a JSON object.

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| \_id | Emergency ID of the entry | String |
| name | Name of the person | String |
| mobile | Mobile phone number of the person | Number |
| postcode | Postcode of the person | String |
| bldgNumber | Building number | String |
| emergencyType | Type of emergency of the person | String |
| status | Status displaying pending or solved | String |
| Location {latitude} | Latitude coordinate of the emergency’s location | Number |
| Location {longitude} | Longitude coordinate of the emergency’s location | Number |
| createdAt | The date and time the entry was created | DateTime |
| updatedAt | The date and time the entry was last updated | DateTime |

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/getemergencies

### Example response

[{

"location": {

"latitude": 1.3521974,

"longitude": 103.6853002

},

"\_id": "5bc5f40972a887709c51a42d",

"name": "Hardit",

"mobile": 97897894,

"postcode": "6890044",

"bldgNumber": "045-04-454",

"emergencyType": "FireEmergency",

"status": "Pending",

"createdAt": "2018-10-16T14:22:01.648Z",

"updatedAt": "2018-10-16T14:22:01.648Z",

"\_\_v": 0

},

{

"location": {

"latitude": 1.3521974,

"longitude": 103.6853002

},

"\_id": "5bc5f41e72a887709c51a42e",

"name": "Hardit",

"mobile": 9397054324,

"postcode": "623814",

"bldgNumber": "045-04-654",

"emergencyType": "FireEmergency",

"status": "Solved",

"createdAt": "2018-10-16T14:22:22.051Z",

"updatedAt": "2018-10-16T14:22:22.051Z",

"\_\_v": 0

}]

## GET /getEmergencies/:emergencyID

Returns a list of the emergency entries matching the emergencyID from the database with the following parameters as a JSON object.

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| name | Name of the person | String |
| mobile | Mobile phone number of the person | Number |
| postcode | Postcode of the person | String |
| bldgNumber | Building number | String |
| emergencyType | Type of emergency of the person | String |
| status | Status displaying pending or solved | String |
| Location {latitude} | Latitude coordinate of the emergency’s location | Number |
| Location {longitude} | Longitude coordinate of the emergency’s location | Number |
| createdAt | The date and time the entry was created | DateTime |
| updatedAt | The date and time the entry was last updated | DateTime |

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/getemergency/5bc031064770315fa7e86d41

### Example response

{

"location": {

"latitude": 1.3521974,

"longitude": 103.6853002

},

"\_id": "5bc031064770315fa7e86d41",

"name": "Thieme",

"mobile": 935435434,

"postcode": "633454",

"bldgNumber": "065-03-343",

"emergencyType": "FireEmergency",

"status": "Solved",

"createdAt": "2018-10-12T05:28:38.624Z",

"updatedAt": "2018-10-12T05:40:00.999Z",

"\_\_v": 0

}

## PUT /emergency/:emergencyID

Updates the emergency whose ID matches ‘emergencyID’.

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| name | Name of the person | String |
| mobile | Mobile phone number of the person | Number |
| postcode | Postcode of the person | String |
| bldgNumber | Building number | String |
| emergencyType | Type of emergency of the person | String |
| status | Status displaying pending or solved | String |
| Location {latitude} | Lattitute coordinate of the emergency’s location | Number |
| Location {longitude} | Longitude coordinate of the emergency’s location | Number |
| createdAt | The date and time the entry was created | DateTime |
| updatedAt | The date and time the entry was last updated | DateTime |

### 

### Example request

POST http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/emergency/5bc5f41e72a887709c51a42e

**HTTP Request Body**

{

"name": "Hardit",

"mobile": 9397054324,

"postcode": "623814",

"bldgNumber": "045-04-654",

"emergencyType": "Injury",

"location": {

"latitude": 1.3521974,

"longitude": 103.6853002

}

}

### Example response

{

"\_id": "5bc5f41e72a887709c51a42e",

"name": "Hardit",

"mobile": 9397054324,

"postcode": "623814",

"bldgNumber": "045-04-654",

"emergencyType": "Injury",

"location": {

"latitude": 1.3521974,

"longitude": 103.6853002

},

"status": "Pending",

"createdAt": "2018-10-16T14:22:22.051Z",

"updatedAt": "2018-10-16T14:22:22.051Z",

"\_\_v": 0

}

## 

## DELETE /emergency/:emergencyID

Deletes the emergency controller whose ID matches ‘emergencyID’.

### Example request

DELETE http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/emergency/5bc5f41e72a887709c51a42e

### Example response

{

"message": "Emergency deleted successfully!"

}

## 

## GET /weatherStationsList

Returns a list of the most recent weather stations

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| stationID | Number representing the temperature in celsius | String |
| name | Number representing the amount of rainfall measured in millimeters. | String |
| Location {latitude} | Latitude coordinate of the emergency’s location | Number |
| Location {longitude} | Longitude coordinate of the emergency’s location | Number |

### 

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/weatherStationsList

### Example response

[{

"id": "S109",

"device\_id": "S109",

"name": "Ang Mo Kio Avenue 5",

"location": {

"latitude": 1.3764,

"longitude": 103.8492

}

},

{

"id": "S50",

"device\_id": "S50",

"name": "Clementi Road",

"location": {

"latitude": 1.3337,

"longitude": 103.7768

}

}, ……]

## GET /weatherStationInformation

Returns a list of all of the weather stations' information

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| temperature | Number representing the temperature in celsius | Number |
| rainfall | Number representing the amount of rainfall measured in millimeters. | Number |
| humidity | Number representing percentage of humidity | Number |
| windDirection | Number representing the wind direction | Number |
| windSpeed | Number representing the wind speed | Number |

### 

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/weatherStationInformation

### Example response

[ {

"\_id": "5bc66153354f7f23242a6c85",

"stationID": "S43",

"temperature": 26.6,

"rainfall": 0,

"humidity": 88.6,

"windDirection": 290,

"windSpeed": 1.5,

"createdAt": "2018-10-16T22:08:22.083Z",

"updatedAt": "2018-10-16T22:08:22.083Z",

"\_\_v": 0

},

{

"\_id": "5bc66153354f7f23242a6c81",

"stationID": "S50",

"temperature": null,

"rainfall": 0,

"humidity": null,

"windDirection": 308,

"windSpeed": 2.1,

"createdAt": "2018-10-16T22:08:22.083Z",

"updatedAt": "2018-10-16T22:08:22.083Z",

"\_\_v": 0

}, …….]

## GET /weatherStationInformation/:stationID

Returns a list of all the stations' information of the weather stations matching ‘stationID’

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| temperature | Number representing the temperature in Celsius | Number |
| rainfall | Number representing the amount of rainfall measured in millimetres. | Number |
| humidity | Number representing percentage of humidity | Number |
| windDirection | Number representing the wind direction | Number |
| windSpeed | Number representing the wind speed | Number |

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/weatherStationInformation/S43

### Example response

[ {

"\_id": "5bc66153354f7f23242a6c85",

"stationID": "S43",

"temperature": 26.6,

"rainfall": 0,

"humidity": 88.6,

"windDirection": 290,

"windSpeed": 1.5,

"createdAt": "2018-10-16T22:08:22.083Z",

"updatedAt": "2018-10-16T22:08:22.083Z",

"\_\_v": 0

} ]

## 

## GET /PSIStationsList

Returns a list of the most recent PSI stations

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| Location {latitude} | Latitude coordinate of the emergency’s location | Number |
| Location {longitude} | Longitude coordinate of the emergency’s location | Number |
| \_id | Emergency ID of the entry | String |
| name | Station name | String |

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/PSIStationList

### Example response

[ {

"location": {

"latitude": 1.35735,

"longitude": 103.94

},

"\_id": "5bc66152354f7f23242a6c7a",

"name": "east",

"\_\_v": 0

},

{

"location": {

"latitude": 1.35735,

"longitude": 103.7

},

"\_id": "5bc66152354f7f23242a6c78",

"name": "west",

"\_\_v": 0

}, ….. ]

## GET /PSIStationInformation

Returns a list of all of the PSI stations' information

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| Values {<station-name>} | Value of the described datatype | Number |
| \_id | Emergency ID of the entry | String |
| dataType | Type of PSI data | String |
| createdAt | The date and time the entry was created | DateTime |
| updatedAt | The date and time the entry was last updated | DateTIme |

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/PSIStationInformation

### Example response

[ {

"values": {

"west": 6,

"national": 9,

"east": 7,

"central": 9,

"south": 7,

"north": 9

},

"\_id": "5bc5f314358ed287c3792690",

"dataType": "o3\_sub\_index",

"\_\_v": 0,

"createdAt": "2018-10-16T14:17:55.034Z",

"updatedAt": "2018-10-16T14:17:55.034Z"

},

{

"values": {

"west": 39,

"national": 43,

"east": 43,

"central": 42,

"south": 39,

"north": 34

},

"\_id": "5bc5f314358ed287c3792691",

"dataType": "pm10\_twenty\_four\_hourly",

"\_\_v": 0,

"createdAt": "2018-10-16T14:17:55.113Z",

"updatedAt": "2018-10-16T14:17:55.113Z"

}, ….. ]

## GET /DengueInformation

Returns a list of all the dengue clusters

### Parameters

|  |  |  |
| --- | --- | --- |
| Name | Description | Datatype |
| description | Name/Description of the locality that the cluster represents | String |
| caseSize | The severity of the dengue threat in the cluster | Number |
| \_id | ID of the entry | String |
| lat | A string containing ‘|’ seperated pairs of coordinates, each of which represents a vertex of the cluster outline | String |

### 

### Example request

GET http://ec2-18-197-243-11.eu-central-1.compute.amazonaws.com/DengueInformation

### Example response

[ {

"\_id": "5bc6615a358ed287c3792b33",

"description": "Woodlands Ave 5 (Bellewoods) / Woodlands Ave 6 (Twin Fountains)",

"\_\_v": 0,

"caseSize": 3,

"createdAt": "2018-10-16T22:08:25.845Z",

"lat": "1.4316428576144,103.798335780592|1.43253790833847,103.798468399503|1.43288934462602,103.798506314867| ….. |1.4316428576144,103.798335780592",

"updatedAt": "2018-10-16T22:08:25.845Z"

},

{

"\_id": "5bc6615a358ed287c3792b34",

"description": "Bt Batok St 21 (Blk 201, 206)",

"\_\_v": 0,

"caseSize": 2,

"createdAt": "2018-10-16T22:08:25.845Z",

"lat": "1.34839753736461,103.748821020035|1.34807021973939,103.749327428148|1.34795250386422,103.749605593517|1.34784771409992,103.750043522617|1.3478161432354,103.750425818382| ……. |1.34742528297781,103.748114216644",

"updatedAt": "2018-10-16T22:08:25.845Z"

}, …… ]