Raku**nine**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 /PSIStationsList

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 'l' 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|1.432
88934462602,103.798506314867| ….. |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|1.3807021973939,103.749327428148|1.34
795250386422,103.749605593517|1.34784771409992,103.750043522617|1.3478161
432354,103.750425818382| ……. |1.34742528297781,103.748114216644",
```

```
    "updatedAt": "2018-10-16T22:08:25.845Z"
}, …… ]
```