{···}

/api-docs   **Explore**

OpenAPI definition ^{v0} **OAS3**

/api-docs

Servers

| http://localhost:8080 - Generated server url |

---

controller   ∧

| GET   `/api/users` Get all users.   ∧ |

Parameters   Try it out

No parameters

Responses

Code	Description	Links
200	Got all users.	*No links*

Media type

| */* |

Controls `Accept` header.

Example Value   Schema

```
[
  {
    "id": 0,
    "name": "string",
```

Code	Description	Links

```
        "email": "string",
        "birthdate": "2022-01-16T20:32:09.446Z",
        "registerDate": "2022-01-16T20:32:09.446Z"
      }
    ]
```

POST   `/api/users`   Add a user.   ∧

Parameters   **Try it out**

No parameters

Request body *required*   **application/json**

Example Value   Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-16T20:32:09.377Z",
  "registerDate": "2022-01-16T20:32:09.377Z"
}
```

Responses

Code	Description	Links
200	User added.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-16T20:32:09.447Z",
```

Code	Description	Links

```
        "registerDate": "2022-01-16T20:32:09.447Z"
    }
```

GET   /api/softwares   Get all software. ⌃

Parameters

<div align="right">

Try it out

</div>

No parameters

Responses

Code	Description	Links

200

No links

Got all software.

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
[
  {
    "id": 0,
    "name": "string",
    "type": "string"
  }
]
```

POST   /api/softwares   Add a software. ⌃

Parameters

<div align="right">

Try it out

</div>

No parameters

Request body ^{required}

<div align="right">

application/json

</div>

Example Value   Schema

```
{
  "id": 0,
  "name": "string",
  "type": "string"
}
```

Responses

Code	Description	Links
200	Software added.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
{
  "id": 0,
  "name": "string",
  "type": "string"
}
```

GET   `/api/machines`   Get all machines.   ⌃

Parameters   **Try it out**

No parameters

Responses

Code	Description	Links
200	Got all machines.	*No links*

Code	Description	Links

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```json
[
  {
    "id": 0,
    "cpu": "string",
    "gpu": "string",
    "ram": "string",
    "disk": "string",
    "os": "string",
    "name": "string",
    "location": {
      "id": 0
    },
    "getxCoord": 0,
    "getyCoord": 0,
    "currentUser": {
      "id": 0,
      "name": "string",
      "email": "string",
      "birthdate": "2022-01-16T20:32:09.451Z",
      "registerDate": "2022-01-16T20:32:09.451Z"
    },
    "softwares": [
      {
        "id": 0,
        "name": "string",
        "type": "string"
      }
```

POST   `/api/machines`   Add a machine.   ∧

Parameters   **Try it out**

No parameters

Request body required   **application/json**

Example Value   Schema

```json
{
  "id": 0,
  "cpu": "string",
  "gpu": "string",
  "ram": "string",
  "disk": "string",
  "os": "string",
```

```json
  "name": "string",
  "location": {
    "id": 0
  },
  "getxCoord": 0,
  "getyCoord": 0,
  "currentUser": {
    "id": 0,
    "name": "string",
    "email": "string",
    "birthdate": "2022-01-16T20:32:09.389Z",
    "registerDate": "2022-01-16T20:32:09.389Z"
  },
  "softwares": [
    {
      "id": 0,
      "name": "string",
      "type": "string"
    }
  ]
```

Responses

Code	Description	Links
200	Machine added.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```json
{
  "id": 0,
  "cpu": "string",
  "gpu": "string",
  "ram": "string",
  "disk": "string",
  "os": "string",
  "name": "string",
  "location": {
    "id": 0
  },
  "getxCoord": 0,
  "getyCoord": 0,
  "currentUser": {
    "id": 0,
    "name": "string",
    "email": "string",
    "birthdate": "2022-01-16T20:32:09.454Z",
    "registerDate": "2022-01-16T20:32:09.454Z"
  },
  "softwares": [
```

Code	Description	Links

```
          {
             "id": 0,
             "name": "string",
             "type": "string"
          }
       ],
```

GET   `/api/locations`   Get all locations.   ⌃

Parameters   [Try it out]

No parameters

Responses

Code	Description	Links
200	Got all locations.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
[
  {
    "id": 0
  }
]
```

POST   `/api/locations`   Add a location.   ⌃

Parameters   [Try it out]

No parameters

Request body   required   [application/json]

Example Value   Schema

```
{
  "id": 0
}
```

Responses

Code	Description	Links
200	Location added.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
{
  "id": 0
}
```

GET   `/api/alarms`   Get alarms matching the filters.   ⌄

Parameters   **Try it out**

Name	Description
machine **integer($int64)** *(query)*	Machine ID filter

machine

| ts-start
integer($int64)
(query) | Start timestamp filter |

ts-start

Name	Description

ts-end
integer($int64) End timestamp filter
(query)

> ts-end

Responses

Code	Description	Links
200		*No links*

Alarms found.

Media type

> */*

Controls `Accept` header.

Example Value   Schema

```
[
  {
    "id": "string",
    "machineId": 0,
    "userId": 0,
    "message": "string",
    "seen": true,
    "type": "string",
    "timestamp": 0
  }
]
```

POST   `/api/alarms`   Update the seen status of an alarm.   ∧

Parameters   **Try it out**

No parameters

Request body *required*   **application/json**

Example Value   Schema

```
{
  "id": "string",
  "seen": true
}
```

Responses

Code	Description	Links
200	Alarm status updated.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
{
  "id": "string",
  "machineId": 0,
  "userId": 0,
  "message": "string",
  "seen": true,
  "type": "string",
  "timestamp": 0
}
```

| 404 | No alarm with specified ID found. | *No links* |

Media type

```
*/*
```

Example Value   Schema

```
{
  "id": "string",
  "machineId": 0,
  "userId": 0,
  "message": "string",
  "seen": true,
  "type": "string",
  "timestamp": 0
}
```

GET `/api/users/{id}` Get a user by ID. ∧

Parameters

Try it out

Name	Description
id * required `integer($int64)` *(path)*	ID of the user to be searched.

id

Responses

Code	Description	Links
200	User found.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-16T20:32:09.463Z",
  "registerDate": "2022-01-16T20:32:09.463Z"
}
```

| 404 | User not found. | *No links* |

Media type

```
*/*
```

Example Value   Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
```

Code	Description	Links

```
    "birthdate": "2022-01-16T20:32:09.464Z",
    "registerDate": "2022-01-16T20:32:09.464Z"
  }
```

GET   `/api/usages`   Get machine usages matching the filters.   ⌃

Parameters

[Try it out]

Name	Description

machine
`integer($int64)` Machine ID filter
(query)

> machine

ts-start
`integer($int64)` Start timestamp filter
(query)

> ts-start

ts-end
`integer($int64)` End timestamp filter
(query)

> ts-end

Responses

Code	Description	Links
200	Machine usages found.	*No links*

Media type

> */*

Controls `Accept` header.

Example Value   Schema

Code	Description	Links

```json
[
  {
    "id": "string",
    "machineId": 0,
    "userId": 0,
    "timestampStart": 0,
    "cpuUsage": 0,
    "gpuUsage": 0,
    "networkUpUsage": 0,
    "networkDownUsage": 0,
    "powerUsage": 0,
    "diskUsage": 0,
    "ramUsage": 0,
    "uptime": 0,
    "softwareUsage": [
      0
    ],
    "cpuTemp": 0,
    "gpuTemp": 0
  }
]
```

GET   `/api/softwares/{id}`   Get a software by ID.   ^

Parameters   **Try it out**

Name	Description

id * **required**
integer($int64) ID of the software to be searched.
(path)

> id

Responses

Code	Description	Links
200	Software found.	*No links*

Media type

> ***/***

Code	Description	Links
	Controls `Accept` header. **Example Value** Schema ```{ "id": 0, "name": "string", "type": "string" }```	
404	Software not found.	*No links*

```
{
  "id": 0,
  "name": "string",
  "type": "string"
}
```

Media type

```
*/*
```

Example Value Schema

```
{
  "id": 0,
  "name": "string",
  "type": "string"
}
```

GET   `/api/sessions` Get sessions matching the filters. ∧

Parameters   **Try it out**

Name	Description
machine `integer($int64)` *(query)*	Machine ID filter `machine`
user `integer($int64)` *(query)*	User ID filter `user`

Responses

Code	Description	Links
200	Sessions found.	*No links*

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```
[
  {
    "id": "string",
    "machineId": 0,
    "userId": 0,
    "timestampStart": 0,
    "timestampEnd": 0,
    "updateCount": 0,
    "avgCpuUsage": 0,
    "avgGpuUsage": 0,
    "avgNetDownUsage": 0,
    "avgNetUpUsage": 0,
    "avgPowerUsage": 0,
    "avgDiskUsage": 0,
    "avgRamUsage": 0,
    "softwareUsed": [
      0
    ]
  }
]
```

GET   `/api/machines/{id}`   Get a machine by ID.   ∧

Parameters   [Try it out]

Name	Description
id * required `integer($int64)` *(path)*	ID of the machine to be searched. [id]

Responses

Code	Description	Links
200		*No links*

Machine found.

Media type

```
*/*
```

Controls `Accept` header.

Example Value   Schema

```json
{
  "id": 0,
  "cpu": "string",
  "gpu": "string",
  "ram": "string",
  "disk": "string",
  "os": "string",
  "name": "string",
  "location": {
    "id": 0
  },
  "getxCoord": 0,
  "getyCoord": 0,
  "currentUser": {
    "id": 0,
    "name": "string",
    "email": "string",
    "birthdate": "2022-01-16T20:32:09.473Z",
    "registerDate": "2022-01-16T20:32:09.473Z"
  },
  "softwares": [
    {
      "id": 0,
      "name": "string",
      "type": "string"
    }
  ],
```

Code	Description	Links
404		*No links*

Machine not found.

Media type

```
*/*
```

Example Value   Schema

```json
{
  "id": 0,
  "cpu": "string",
  "gpu": "string",
  "ram": "string",
  "disk": "string",
  "os": "string",
  "name": "string",
  "location": {
```

Code	Description	Links

```
      "id": 0
    },
    "getxCoord": 0,
    "getyCoord": 0,
    "currentUser": {
      "id": 0,
      "name": "string",
      "email": "string",
      "birthdate": "2022-01-16T20:32:09.477Z",
      "registerDate": "2022-01-16T20:32:09.477Z"
    },
    "softwares": [
      {
        "id": 0,
        "name": "string",
        "type": "string"
      }
    ]
```

GET   `/api/locations/{id}`   Get a location by ID.   ⌃

Parameters   [Try it out]

Name	Description
id * required **integer($int64)** *(path)*	ID of the location to be searched. [id]

Responses

Code	Description	Links
200	Location found. Media type [**/*/**] Controls `Accept` header. **Example Value** Schema	*No links*

Code	Description	Links

```
{
  "id": 0
}
```

404

Location not found.

No links

Media type

```
*/*
```

Example Value   Schema

```
{
  "id": 0
}
```

GET   `/api/locations/{id}/machines`   Get the machines of a location through its ID.   ∧

Parameters   Try it out

Name	Description

id * **required**
`integer($int64)` ID of the location whose machines are to be found.
(path)

```
id
```

Responses

Code	Description	Links

200

Got all machines of the specified location.

No links

Media type

```
*/*
```

Controls `Accept` header.

Code	Description	Links

Example Value   Schema

```
[
  {
    "id": 0,
    "cpu": "string",
    "gpu": "string",
    "ram": "string",
    "disk": "string",
    "os": "string",
    "name": "string",
    "location": {
      "id": 0
    },
    "getxCoord": 0,
    "getyCoord": 0,
    "currentUser": {
      "id": 0,
      "name": "string",
      "email": "string",
      "birthdate": "2022-01-16T20:32:09.482Z",
      "registerDate": "2022-01-16T20:32:09.482Z"
    },
    "softwares": [
      {
        "id": 0,
        "name": "string",
        "type": "string"
      }
```

404   *No links*

Schemas   Location not found.   ∧

Media type

User   {

id   integer($int64)

                        Identifier

name   string

                        Real name

email   string

                        Email address

birthdate   string($date-time)

                        Birthdate

registerDate   string($date-time)

                        Registration date

}

```
        "email": "string",
        "birthdate": "2022-01-16T20:32:09.485Z",
        "registerDate": "2022-01-16T20:32:09.485Z"
```

Software   {

    id   **integer($int64)**

                                  Identifier

    name   **string**

                                    Name

    type   **string**

                                  Type

}

Location   {

    description:

                                  Location (cafe)

    id   **integer($int64)**

                                  Identifier

}

Machine {

```
id                  integer($int64)

                    Identifier

cpu                 string

                    CPU name

gpu                 string

                    GPU name

ram                 string

                    RAM name

disk                string

                    Disk name

os                  string

                    Operating system name

name                string

                    Machine name

location
```

Location {...}

```
getxCoord           number($double)

                    Horizontal map coordinate

getyCoord           number($double)

                    Vertical map coordinate

currentUser
```

User {...}

```
softwares
                        [...]
timestamp           integer($int64)

                    Usage: timestamp

cpuUsage            number($double)

                    Usage: CPU usage

gpuUsage            number($double)

                    Usage: GPU usage

diskUsage           number($double)

                    Usage: Disk usage

ramUsage            number($double)

                    Usage: RAM usage

networkDownUsage    number($double)

                    Usage: network download usage

networkUpUsage      number($double)

                    Usage: network upload usage

powerUsage          number($double)

                    Usage: power usage
```

```
    uptime                  integer($int32)

                            Usage: uptime (seconds)

    status                  integer($int32)

                            Machine status (0 - off, 1 - on, 2 - unavailable)

}
```

AlarmSeen {
```
    id                      string

                            Alarm ID

    seen                    boolean

                            Desired seen status

}
```

Alarm {
```
    id                      string

                            Identifier

    machineId               integer($int64)

                            Machine ID

    userId                  integer($int64)

                            User ID

    message                 string

                            Message content

    seen                    boolean

                            Seen status

    type                    string

                            Alert type (INFO / WARNING / EMERGENCY)

    timestamp               integer($int64)

                            Timestamp

}
```

MachineUsage {

    id   string

                          Identifier

    machineId   integer($int64)

                          Machine ID

    userId   integer($int64)

                          User ID

    timestampStart   integer($int64)

                          Timestamp

    cpuUsage   number($double)

                          CPU usage

    gpuUsage   number($double)

                          GPU usage

    networkUpUsage   number($double)

                          Network upload usage

    networkDownUsage   number($double)

                          Network download usage

    powerUsage   number($double)

                          Power usage

    diskUsage   number($double)

                          Disk usage

    ramUsage   number($double)

                          RAM usage

    uptime   integer($int32)

                          Uptime

    softwareUsage

                          [...]

    cpuTemp   number($double)

                          CPU temperature

    gpuTemp   number($double)

                          GPU temperature

}

Session   {

id	string	
	Identifier	
machineId	integer($int64)	
	Machine ID	
userId	integer($int64)	
	User ID	
timestampStart	integer($int64)	
	Session beginning timestamp	
timestampEnd	integer($int64)	
	Session end timestamp	
updateCount	integer($int32)	
	Number of times updated with usages	
avgCpuUsage	number($double)	
	Average CPU usage	
avgGpuUsage	number($double)	
	Average GPU usage	
avgNetDownUsage	number($double)	
	Average network download usage	
avgNetUpUsage	number($double)	
	Average network upload usage	
avgPowerUsage	number($double)	
	Average power usage	
avgDiskUsage	number($double)	
	Average disk usage	
avgRamUsage	number($double)	
	Average RAM usage	
softwareUsed	[...]	

}