

API endpoint documentatie

Route **api** Headers: 'Content-Type' : 'application/json'

GET /camera

Result example:

```
{
  "id": 1,
  "labfarmId": 1,
  "labfarm": {
    "id": 1,
    "authId": "admin",
    "plantSpecies": "pisbloem",
    "optimalAcidityLevelHigh": 0,
    "optimalAcidityLevelLow": 0,
    "optimalHumidityLevelHigh": 0,
    "optimalHumidityLevelLow": 0,
    "optimalLightLevelHigh": 0,
    "optimalLightLevelLow": 0,
    "optimalConductivityLevelHigh": 0,
    "optimalConductivityLevelLow": 0,
    "minimumReservoirLevel": 0,
    "autoMode": false
  },
  "column": 2,
  "row": 3
}
```

GET /camera/id

Result example:

```
{
  "id": 1,
  "labfarmId": 1,
  "labfarm": {
    "id": 1,
    "authId": "admin",
    "plantSpecies": "pisbloem",
    "optimalAcidityLevelHigh": 0,
    "optimalAcidityLevelLow": 0,
    "optimalHumidityLevelHigh": 0,
    "optimalHumidityLevelLow": 0,
    "optimalLightLevelHigh": 0,
    "optimalLightLevelLow": 0,
    "optimalConductivityLevelHigh": 0,
    "optimalConductivityLevelLow": 0,
    "minimumReservoirLevel": 0,
    "autoMode": false
  },
  "column": 2,
  "row": 3
}
```

PUT /camera/id

Body example:

```
{
  "id": 2
  "labfarmId": 1,
  "column": 3,
  "row": 2
}
```

POST /camera

Body example:

```
{
  "labfarmId": 1,
  "column": 3,
  "row": 2
}
```

DELETE /camera/id

Result example:

```
true
```

GET /labfarm?userId=admin

Haal al de labfarms op, optionele paramter userId voor al de labfarms van een specifieke user.

Result example:

```
{
  "id": 1,
  "authId": "admin",
  "plantSpecies": "pisbloem",
  "optimalAcidityLevelHigh": 0,
  "optimalAcidityLevelLow": 0,
  "optimalHumidityLevelHigh": 0,
  "optimalHumidityLevelLow": 0,
  "optimalLightLevelHigh": 0,
  "optimalLightLevelLow": 0,
  "optimalConductivityLevelHigh": 0,
  "optimalConductivityLevelLow": 0,
  "minimumReservoirLevel": 0,
  "autoMode": false
}
```

GET /labfarm/id

Result example:

```
{
  "id": 1,
  "authId": "admin",
  "plantSpecies": "pisbloem",
  "optimalAcidityLevelHigh": 0,
  "optimalAcidityLevelLow": 0,
  "optimalHumidityLevelHigh": 0,
  "optimalHumidityLevelLow": 0,
  "optimalLightLevelHigh": 0,
  "optimalLightLevelLow": 0,
  "optimalConductivityLevelHigh": 0,
  "optimalConductivityLevelLow": 0,
  "minimumReservoirLevel": 0,
  "autoMode": false
}
```

PUT /labfarm/id

Body example:

```
{
  "id": 1,
  "authId": "admin",
  "plantSpecies": "examaple",
  "optimalAcidityLevelHigh": 2,
  "optimalAcidityLevelLow": -3,
  "optimalHumidityLevelHigh": 0,
  "optimalHumidityLevelLow": -5,
  "optimalLightLevelHigh": 20,
  "optimalLightLevelLow": 0,
  "optimalConductivityLevelHigh": 18,
  "optimalConductivityLevelLow": 8,
  "minimumReservoirLevel": 20,
  "autoMode": true
}
```

POST /labfarm

Body example:

```
{
  "authId": "admin",
  "plantSpecies": "examaple",
  "optimalAcidityLevelHigh": 2,
  "optimalAcidityLevelLow": -3,
  "optimalHumidityLevelHigh": 0,
  "optimalHumidityLevelLow": -5,
  "optimalLightLevelHigh": 20,
  "optimalLightLevelLow": 0,
  "optimalConductivityLevelHigh": 18,
  "optimalConductivityLevelLow": 8,
  "minimumReservoirLevel": 20,
  "autoMode": true
}
```

DELETE /labfarm/id

Result example:

```
true
```

GET /picture

Result example:

```
{
  "id": 1,
  "imagePath": "url/test/1",
  "timeStamp": "0001-01-01T00:00:00",
  "cameraId": 1,
  "camera": {
    "id": 1,
    "labfarmId": 1,
    "labfarm": null,
    "column": 2,
    "row": 3
  }
},
```

GET /picture/id

Result example:

```
{
  "id": 1,
  "imagePath": "url/test/1",
  "timeStamp": "0001-01-01T00:00:00",
  "cameraId": 1,
  "camera": {
    "id": 1,
    "labfarmId": 1,
    "labfarm": null,
    "column": 2,
    "row": 3
  }
},
```

PUT /picture/id

Body example:

```
{
  "pictureId": 1,
  "imagePath": "url/example/path",
  "cameraId": 1
}
```

POST /picture

Body example:

```
{
  "imagePath": "url/example/path",
  "cameraId": 2
}
```

DELETE /picture/id

Result example:

```
true
```

GET /sensor

Result example:

```
{
  "id": 1,
  "labFarmId": 1,
  "labFarm": {
    "id": 1,
    "authId": "admin",
    "plantSpecies": "pisbloem",
    "optimalAcidityLevelHigh": 0,
    "optimalAcidityLevelLow": 0,
    "optimalHumidityLevelHigh": 0,
    "optimalHumidityLevelLow": 0,
    "optimalLightLevelHigh": 0,
    "optimalLightLevelLow": 0,
    "optimalConductivityLevelHigh": 0,
    "optimalConductivityLevelLow": 0,
    "minimumReservoirLevel": 0,
    "autoMode": false
  },
  "sensorTypeId": 1,
  "sensorType": {
    "id": 1,
    "name": "LightSensor"
  }
},
```

GET /sensor/id

Result example:

```
{
  "id": 1,
  "labFarmId": 1,
  "labFarm": {
    "id": 1,
    "authId": "admin",
    "plantSpecies": "pisbloem",
    "optimalAcidityLevelHigh": 0,
    "optimalAcidityLevelLow": 0,
    "optimalHumidityLevelHigh": 0,
    "optimalHumidityLevelLow": 0,
    "optimalLightLevelHigh": 0,
    "optimalLightLevelLow": 0,
    "optimalConductivityLevelHigh": 0,
    "optimalConductivityLevelLow": 0,
    "minimumReservoirLevel": 0,
    "autoMode": false
  },
  "sensorTypeId": 1,
  "sensorType": {
    "id": 1,
    "name": "LightSensor"
  }
},
```

PUT /sensor/id

Body example:

```
{
  "sensorId" : 1,
  "labFarmId" : 1,
  "sensorType": {
    "name" : "exampleName"
  }
}
```

POST /sensor

Body example:

```
{
  "labFarmId" : 1,
  "sensorType": {
    "name" : "exampleName"
  }
}
```

DELETE /sensor/id

Result example:

```
true
```

GET /sensordata

Result example:

```
{
  "id": 1,
  "sensorValue": 123,
  "timeStamp": "0001-01-01T00:00:00",
  "sensorId": 1,
  "sensor": {
    "id": 1,
    "labFarmId": 1,
    "labFarm": null,
    "sensorTypeId": 1,
    "sensorType": {
      "id": 1,
      "name": "LightSensor"
    }
  }
},
```

GET /sensordata/id

Result example:

```
{
  "id": 1,
  "sensorValue": 123,
  "timeStamp": "0001-01-01T00:00:00",
  "sensorId": 1,
  "sensor": {
    "id": 1,
    "labFarmId": 1,
    "labFarm": null,
    "sensorTypeId": 1,
    "sensorType": {
      "id": 1,
      "name": "LightSensor"
    }
  }
},
```

PUT /sensordata/id

Body example:

```
{
  "sensorId" : 1,
  "sensorValue" : 1234546,
  "sensorId": 1
}
```

POST /sensordata

Body example:

```
{
  "sensorValue" : 1234546,
  "sensorId": 1
}
```

DELETE /sensordata/id

Result example:

```
true
```

GET /lastlabfarm/1

Haal de laatst gemeten waarde op van al de verschillende sensors van 1 labfarm a.d.h.v. labfarmId.

Result example:

```
{
  "labFarm": {
    "id": 1,
    "authId": "admin",
    "plantSpecies": "pisbloem",
    "optimalAcidityLevelHigh": 0,
    "optimalAcidityLevelLow": 0,
    "optimalHumidityLevelHigh": 0,
    "optimalHumidityLevelLow": 0,
    "optimalLightLevelHigh": 0,
    "optimalLightLevelLow": 0,
    "optimalConductivityLevelHigh": 0,
    "optimalConductivityLevelLow": 0,
    "minimumReservoirLevel": 0,
    "autoMode": false
  },
  "latestSensorValues": [
    {
      "value": 1234546,
      "timeStamp": "2018-10-24T18:25:04.7275368",
      "sensorType": {
        "id": 1,
        "name": "LightSensor"
      }
    },
    {
      "value": 0,
      "timeStamp": "0001-01-01T00:00:00",
      "sensorType": null
    }
  ]
}
```


GET /lastsensor/id?count=3

Haal de x laatst gemeten sensor waardes op van 1 sensor a.d.h.v. sensorId en count parameter x.

Result example:

```
{
  "sensorData": [
    {
      "id": 4,
      "sensorValue": 1234546,
      "timeStamp": "2018-10-24T18:25:04.7275368",
      "sensorId": 1,
      "sensor": {
        "id": 1,
        "labFarmId": 1,
        "labFarm": null,
        "sensorTypeId": 1,
        "sensorType": {
          "id": 1,
          "name": "LightSensor"
        }
      }
    },
    {
      "id": 1,
      "sensorValue": 123,
      "timeStamp": "0001-01-01T00:00:00",
      "sensorId": 1,
      "sensor": {
        "id": 1,
        "labFarmId": 1,
        "labFarm": null,
        "sensorTypeId": 1,
        "sensorType": {
          "id": 1,
          "name": "LightSensor"
        }
      }
    }
  ],
}
```