



# Backend API

This page gathers all the API calls that can be used by the front end.

Front end -> Backend

## Global configuration

Collection of all functions/API calls available to the front end that handles the global variables.

### saveConfigParams(configParams)

#### saveConfigParams(configParams)

Saves the config parameters to the persistent file

##### React usage example

```
import { saveConfigParams } from './api/backend-api';  
  
saveConfigParams(globalConfig);
```

### loadConfigParams()

#### loadConfigParams()

Loads the config parameters from the persistent file

##### React usage example

```
import { loadConfigParams } from './api/backend-api';  
  
globalConfig = loadConfigParams();
```

# Data base

Collection of all functions/API calls available to the front end that handles the communication with the data base, such as fetching and storing data.

## getMaterialList()

### getMaterialList()

#### TODO

##### React usage example

```
import { getMaterialList } from "../api/backend-api";

globalConfig = getMaterialList();
```

## getMaterialAt(index)

### getMaterialAt(index)

Returns the material at an `index` from the database.

##### React usage example

```
import { getMaterialAt } from "../api/backend-api";

const elem21 = getMaterialAt(21);
```

## getExperimentAt(index)

### getExperimentAt(index)

Returns the experiment at an `index` from the database.

##### React usage example

```
import { getExperimentAt } from "../api/backend-api";

const elem21 = getExperimentAt(21);
```

## getDataPointArrayAt(index)

### **getDataPointArrayAt(index)**

Returns an array of `DataPoint` at an `index` from the database.

#### **React usage example**

```
import { getDataPointArrayAt } from "../api/backend-api";
import { DataPointType } from "types/DataPointTypes";

const dataPointArrya: DataPointType[] = getDataPointArrayAt(21);
```

## Core

## startExperimentRoutineJS()

### **startExperimentRoutineJS()**

This function calls the `start_experiment_routine()` on the backend.

Usually it should be used to handle when the user press a "start experiment" button or something similar.

#### **React usage example**

```
import { getMaterialList } from "../api/backend-api";

onClick(()=>{
  startExperimentRoutineJS();
});
```

## endExperimentRoutineJS()

### endExperimentRoutineJS()

This function calls the `end_experiment_routine()` on the backend.

Usually it should be used to handle when the user press a "end experiment" button or something similar.

#### React usage example

```
import { getMaterialList } from "../api/backend-api";

onClick(()=>{
  endExperimentRoutineJS();
};)
```