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();
};)
```