API Operation

Below are the steps required to retrieve information via the API, with their corresponding java script code snippets. Run these snippets from a browser developer tools console. Note, these snippets can run from a browser, these examples were tested on Chrome version 62.0.3202.94 but should work on any browser.

1. Login to the system and retrieve an access token:

```
var http = new XMLHttpRequest();
var url = "https://api.neurosteer.com/signin";

var params = "email=YOUR_EMAIL&password=YOUR_PASSWORD";

http.open("POST", url, true);

//Send the proper header information along with the request

http.setRequestHeader("Content-type", "application/x-www-form-urlencoded");

http.onreadystatechange = function() {

    if(http.readyState == 4 && http.status == 200) {

        console.log(http.responseText);

    }

}

http.send(params);
```

2. To obtain the YOUR_ACCESS_TOKEN read the response header named **access_token**.

3. Open a websocket and listen to updates:

```
var socket;

var data2 = [];

if ( !window.WebSocket ) {

        window.WebSocket = window.MozWebSocket;

}

if ( window.WebSocket ) {

        var reconnectInterval = 1000 * 60;

        var connect = function () {

                var count = 0;

                socket = new WebSocket( "wss://api.neurosteer.com/api/v1/features/YOUR_SENSOR_ID/real-time/?access_token=YOUR_ACCESS_TOKEN" );

                socket.onmessage = function ( event ) {

                        record = JSON.parse( event.data ); // convert to JSON
```

```javascript
                    // put your business logic here
                    console.log( record.features ); // print list of biomarkers
            };
            socket.onopen = function ( event ) {
                    var ta = document.getElementById( 'responseText' );
                    console.log(  "Web Socket opened!" );
            };
            socket.onerror = function () {
                    console.log( 'socket error' );
                    setTimeout( connect, reconnectInterval );
            };
            socket.onclose = function ( event ) {
                    console.log( 'socket close' );
                    var ta = document.getElementById( 'responseText' );
                    console.log(  "Web Socket closed, reconnect in " + reconnectInterval + " msec" );
                    setTimeout( connect, reconnectInterval );
            };
        };
        connect();
} else {
        alert( "Your browser does not support Web Socket." );
}
```

4. The Server will respond in a list of biomarkers, updated every second in a JSON format. e.g. {gmean: -0.9990389103528362, c1: -0.9999145017642647, c2: -0.9997699083337485, c3: -0.9999997202373928, h1: -0.9996382954629582, …}