

# LU10.S03 - Building a basic web server with node

## Assignments

As we all know, a server provides data to users request. Let us build together a webserver, that can display an array of data on the browser. For that follow the instructions on the video tutorial.

The screenshot shows the WebStorm IDE interface. On the left, the project tree shows files like helloWorld.js, myFirstServer.js, basicWebServer.js (which is selected and highlighted with a red oval), and myFirstServer0.js. In the center, the code editor displays the content of basicWebServer.js. The code creates a basic web server that listens on port 3000 and responds with a JSON object {id: 123, "name": "Bob", "email": "bob@terminator.com"} when requested. A red oval highlights the JSON response. On the right, the browser window shows the URL localhost:3000, and the JSON object is displayed in the browser's developer tools. At the bottom, the terminal window shows the command 'node .\basicWebServer.js' being run and the server starting on port 3000.

```

4  * Description:
5   * This is a basic web server, that display data in json format on the browser
6   ** ****
7
8
9
10 const http = require("http");
11 const req = require("express/lib/request"); // Import of the http-package
12
13 const port = 3000; // Kind of a telefon number, on which the server listens
14 const server = Server<IncomingMessage, ServerResponse> =
15   http.createServer(requestListener);
16   function(request: IncomingMessage, response: ServerResponse) {
17     res.setHeader('Content-Type', 'text/plain', 'application/json');
18     res.setHeader('Access-Control-Allow-Origin', '*'); // We accept request from anywhere
19     res.writeHead(200); // status code: 200 = OK
20     let dataObj = {id: 123, "name": "Bob", "email": "bob@terminator.com"};
21     let dataString = JSON.stringify(dataObj); // JSON-Object transferred to a string
22     res.end(dataString); // send the data to the browser
23   };
24
25 server.listen(port, () => {
26   console.log(`Server started on port: ${port}`);
27 });

```

## Vocabulary

English	German
...	...



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