

# 5G00DM03-3003 Basics of Web Development,

## Exercise 4 (Max 15 XP)

Let us keep practicing and experimenting with JavaScript and Node/Express.

- In your local Git working directory, create a file named `.gitignore`.
  - Write (at least) this line in it:  
`node_modules/`  
(This makes Git ignore `node_modules` subdirectory, also in subdirectories. We want to prevent pushing large and unnecessary `node_modules` to the remote repository.)  
`git add` the `.gitignore` file.
- Create a subdirectory with name `ex4` in your local Git working directory. In this `ex4` directory, run `npm init` and create `server.js` file, in which implement a simple one-file Express server (meaning you must also `npm install express`). The server is to be run at localhost (127.0.0.1) and it should listen to Port 3000.
- `git add` the `ex4` directory, and check with `git status` that Git does not see the `node_modules` directory!

Implement features for your server (i.e., modify `server.js` file) according to the task specifications.

### Task 1 (max 5 XP)

When called using path `/json` (GET `http://localhost:3000/json`), the server should return a JSON object having seven attribute–value pairs; the keys should be the names of the days of week, and the values should be the corresponding order indices. (Monday should have value 0, Tuesday 1, etc.) Remember to set the correct Content-Type header!

### Task 2 (max 5 XP)

When called using path `/html` (GET `http://localhost:3000/html`), the server should return an HTML page having a heading text “Days of the Week” and the days from Monday to Sunday and their respective indices (as in Task 1), this time presented in an HTML table. There should be a row for each day, and each row should feature two columns, one for the name and one for the index. It may be useful to consult, e.g., [https://www.w3schools.com/html/html\\_tables.asp](https://www.w3schools.com/html/html_tables.asp) and [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Template\\_literals](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Template_literals).

## Task 3 (max 5 XP)

When called using, e.g., path /html/4 (GET <http://localhost:3000/html/4>), the server should return a HTML page like in Task 2, but only the row corresponding to the requested day should be shown. (In this example, “4” was used as a part of the address to indicate that we are interested in the day with index 4 (Friday), so the other days should be filtered out, and only the row having “Friday” and “4” columns should be shown. This should work similarly for all the seven possible days.) You may want to consult, e.g., <https://expressjs.com/en/guide/routing.html>.

Also, style your HTML page and make it look nice!

## Submission

Commit with commit message “Submit Exercise 4”. Push the commit into the remote repository. Then, get the address to this commit of yours by right clicking the name of you commit in GitLab and selecting “Copy Link Location” (or “Copy Link Address” or something like that). Paste this address as your answer to Moodle (Session 4 homework submission area), and submit.