
01UDFOV/01TXYOV – WEB APPLICATIONS I

BIGLAB 2: FULL STACK TODO LIST

During the four weeks of the second BigLab, you will develop the back-end for your web-based task manager using Node + Express. In addition, you will improve the front-end of the task manager accordingly and connect the front-end to the back-end. As for the previous BigLab, to create your repository, you must login to [GitHub Classroom](#) and accept the assignment (if needed, join your group). For more details, please have a look at the [GitHub Classroom instructions](#). Here you can find the links for the BigLab2 repository on GitHub Classroom:

- Web Applications I: <https://classroom.github.com/g/NFnVVIQH>
- Applicazioni Web I [A-L]: <https://classroom.github.com/g/hZPQRYna>
- Applicazioni Web I [M-Z]: <https://classroom.github.com/g/1mhnogjm>

To better keep track of your progress, we suggest you work incrementally “week-by-week”, e.g., by creating, inside your repository, a branch for each week of the BigLab.

WHAT ARE WE BUILDING IN THESE WEEKS?

- a) In the first week, we will create a **basic back-end for the task manager**. To do so, we will use the [Express framework](#). The back-end has to implement a series of **APIs** to support the main features of the web-based task manager we developed in BigLab1: **create**, **read**, **update** and **delete** the tasks. The data will be persistently stored in an **SQLite database**.
- b) In the second week, we will **update the front-end** of the web-based task manager (i.e., the final result of the BigLab1) to use some of the **APIs** designed in the previous week. In particular, we will **get the tasks** to be displayed from the server, and we will **save new tasks** on the server-side database.
- c) In the third week, we will continue to **update the front-end** of the web-based task manager to **use all the APIs** designed in the first part of this BigLab. Specifically, we will use the APIs for filtering tasks, and for deleting and updating them.
- d) In the fourth and last week, we will add the possibility of **having multiple users** to both our back-end and front-end applications, enabling them to **authenticate** (login and logout functionalities) and manage their own tasks. Task list page **access will then be refused** to non-authenticated users.

EVALUATION CRITERIA & DEADLINES

The points received for your work are added to the final exam score to each member of the team.

We will follow these evaluation criteria for evaluating your submission:

- The team members will receive 1 point if the submitted application is *complete*, i.e., it successfully implements *all functionalities of the 4 weeks*, i.e., points a), b), c), and d).
- The team members will receive 0.5 points if the submitted React + Express application is *partially complete*, i.e., it successfully implements the functionalities of *at least 2 weeks* (e.g., the team implemented only points a and b).

- The team members will receive 0 points otherwise.

The assignment must be submitted in the **master/main branch** before **Sunday, June 6 at 23:59 CEST** (see the the [GitHub Classroom instructions](#) for the details on the submission procedure). Remember that the last commit of your assignment must be **tagged** with *“final”*.

If your **master/main branch is empty**, or you did not push a commit tagged with **final**, we assume that you decided **not to submit** the BigLab for evaluation.

The final repository structure **must** keep the client and server sub-directories of the provided template; thus, the project will need to execute correctly with the following commands:

- i) for the back-end: “cd server; nodemon server.js;”
- ii) for the front-end: “cd client; npm start;”.