

- Students must form groups of 3 or 4 and create a web application that incorporates the principles of a learning application like Anki (<https://apps.ankiweb.net/>). The first four TPs already described these concepts and the future submission.

The mandatory submission by December 30th should be in the form of a GitHub repository URL (public), containing two subdirectories named "frontend-angular" and "backend-nodejs." The repository can be private; in that case, send an invitation to my GitHub account "Arnaud-Nauwynck" (note that GitHub limits access to a private repo to 3 collaborators).

For each person, provide their GitHub username, the repository URL, and their contribution to the project on the Esilv website. I will review git commits and assign different grades within the same project if contributions vary significantly among team members.

- Imposed constraints:
 - The web frontend must be developed with Angular + Typescript + ng-Bootstrap.
 - Include an advanced web feature of your choice: ag-grid (<https://www.ag-grid.com/>, a library for tables), HighCharts (a library for charts), WebSocket, LocalStorage, etc.
 - The backend must be developed in NodeJs + Typescript + Express.
 - Include support for either Swagger or the PostgreSQL database (e.g., with Sequelize as the ORM library).
 - If not using a database (not mandatory), the server must pre-initialize default values and keep modifiable data in memory. If using a database (PostgreSQL), provide an SQL initialization script containing "Create table" and "insert into table...values."

It is strongly recommended to write a "README.md" file briefly describing how to use the application, including screenshots.