

# Semester project – required features and grading criteria

Internet Technologies - spring 2023 edition

## Formal criteria

The semester project is a required constituent of the graded credit. The maximum score for it is 20pts. You need to collect at least 45pts to complete that course, **including not less than 8pts. for the project** (and ~80pts to get 5.0 grade).

## Deadlines

The fixed deadline is set with the “Semester project” assignment folder closing date.

## Technologies

The default technology for semester project is Node.js/Express (this should allow to reuse some of the module-specific assignments work).

However, we also permit the use of one of the following technologies:

- ASP .NET
- PHP
- Java EE

If you wish to choose another technology – please consult the instructors in advance.

## Requirement features of the project

Build a simple website based on persistent data management and dynamic webpage technology. The following features should be provided:

- The presentation layer developed using external CSS;
- Persistent data storage using relational or non-relational database management system. It is recommended to include at least two interconnected entities (like e.g. Employee-Department, Product-PurchaseOrder etc.);
- Client- and server-side validation of data inputs;
- Functionality involving client interaction state management (using cookies or session variables);
- Client-side functionality involving JavaScript (preferably using client-side libraries or frameworks);
- Implementation respecting the core good practices regarding the Web application security.

Additionally, include a short document (ca. 1-2 pages) describing the software developed and focusing on:

- the functionality available and usage scenario;
- installation and environment configuration necessary to run the software from sources.

## Additional notes

No matter whether you have submitted the project or not, to pass the course you are required to attend the exam where (apart from the exam test) short individual reviews of projects or selected assignments will be performed.