



# Web Technologies 2

## **What does this course consist of?**

### **01. Number of class hours**

[https://wiki.insa-rouen.fr/doku.php?id=insa:iti:maquette:semestre\\_7:technologies\\_web\\_ii](https://wiki.insa-rouen.fr/doku.php?id=insa:iti:maquette:semestre_7:technologies_web_ii)

### **02. Prerequisites**

From TWI, you should:

- know how the traditional client-server web architecture works,
- be able to write static web content (HTML/CSS/XML),
- be able to develop dynamic (client-side) web content (JavaScript/jQuery),
- know how to interact with a web server (HTTP protocol),
- be familiar with server-side dynamic web content (e.g. PHP or better Node.js).

From BDI, you should:

- be able to design a simple database, know how to perform basic CRUD (Creation, Read, Update Delete) operations on a database,
- have a bit of practice with SQL queries (e.g. using SQLite).

### **03. What's the plan**

This course is an introduction to full stack web development and advanced web technologies.

Your objectives:

- To understand what full-stack web development is.
- To know how a (Node.js) back-end application works.
- To work with popular web frameworks (Express.js, Vue.js).
- To implement asynchronous (client-side) requests.
- To design and create a complete (full stack) web application.

### **04. Future applications**

Any sort of web-based application, REST API, online dashboard, serving-side framework etc., for instance mentioned in courses such as "Web des objets" or "Big Data".

## **TEACHER'S TIPS**

Build your project team and start working on your project immediately. Pick a project theme that you really like as you will spend a lot of time on it. A lot of practice will be required to face all the novel technologies and paradigms. You will do great if you specifically work during the project on parts that appeared more complicated during the lab sessions.

## **FEEDBACK FROM STUDENTS**

"Not easy, time-consuming project over the holidays. But very interesting and stimulating"

"Best subject at insa, plus there's no html and css, just joy"

"Incredible, the practical work is hard but understandable if you take it back with the corrections, and the project is very cool"

"Interesting if you like the web"

"The redesign of the subject makes it very interesting, the concepts covered are really useful in understanding other modern languages such as Flask for example, and allows you to really make a website."