# **TP: Exercise sheet**

Introduction

You will need to install Node.js on your computer. We also highly recommend you install and use Visual Studio Code.

Presentation

This TP focuses on the basics on Web development: HTML, CSS and old-school JavaScript. You also need to run some command lines to install and use an API Server on your machine (that’s why you need to install Node.js!).

Provided files & setup

You will receive a zipped folder containing an API you will need to launch for the final exercise of this project. To run your API, you need to:

* Open a command shell at your API location
* Run command *npm install*
* When it’s done, run *node server.js*

This will launch the API locally, listening on port **8081**. You must keep your command shell opened and running: closing it will kill the API.

You will also receive the axios package you will need to use to call this API.

Project

You will need to implement 4 exercises on a Web page. But this time, you will also have to implement the sheet itself!

As demonstrated, we expect you to develop one HTML file containing these exercises and their implementation.

**Ex 1:** Implement a button which displays “Hello World” when you click on it.

**Ex 2:** Implement a pair of buttons. One is hidden, the other is visible. When you click on the visible button, you hide it and reveal the other.

**Ex 3:** Implement a textbox containing a positive number and a button next to it. When you click on the button, you must display if your number is a prime number or not.

**Ex 4:** Implement two fields:

* A ‘Full name’ text field
* An ‘Age’ number field

Implement also a way to submit your data to the provided API and display its response!

**Note:** if you find a way to provide a more elegant way of displaying the exercises, do it! Remember that the demonstration featured the strict minimum of what we expect.

API specifications

There is only one type of request you should define to call the API server. These are the details:

- URL: <http://localhost:8081>

- Method: POST

- Data to send: an object with a field named ‘fullname’ and another field named ‘age’

- Response: if your full name is empty or ‘John DOE’ (case insensitive), or if your age is undefined or below 0, the API will return an error. Otherwise, it will return OK with a sentence you need to display. You need to correctly manage both cases.

What you should **NOT** do in any case!

Doing one of these things will give you an instant and unconditional 0:

* Add and use any external libraries to your project (axios excepted)
* Add and use external CSS to your project
* Modify the provided axios file

How to send us your work

Send us your folder containing your HTML, CSS and JS files in a zip file, using git as usual. Do not send us the API.

You need to send an email to myself **and** M. DELMOTTE. If one of us is missing, your project will not be evaluated.

Email address: [wpersechini@adlere.fr](mailto:wpersechini@adlere.fr)