

Web programming S1 - DETAILS ABOUT THE PROJECT

This is a project in duo !

Your job is to create a website from start to the end. You need to use HTML structure, CSS styling, Javascript, JSON and AJAX with the use of third party APIs (you can use maps, openWeather, every single API of your choice, even yours), I will detail all the requirements below.

This is a **front-end project**, any server stuff and back end is not required.

Actually, you can use jQuery but for more challenge, I don't recommend you to use it.

You can't use bootstrap or any **css frameworks**, neither **javascript frameworks** (react, ember, vue, angular, etc.)

You can use task managers, package manager, module manager, version control.

You will have to do an oral presentation of your website / your code. You will also have to answers questions related to your project. (no slides required, we just focus on your project)

Don't be too ambitious, keep it simple as usual.

Deadline : 12th course but I don't know exactly when, I will give you the exact date later.

REQUIREMENTS :

- HTML structure with at least :
 - <form>
 - <button> or <input type="submit">
- Flexbox, grid : at least one of this layout engine somewhere
- Animations, transforms and transitions
- Media queries with at least one breakpoint (768px for example)
- Your code should work for at least : Firefox 57 and Chrome 62
- Javascript selectors
- Javascript events, listeners / callbacks
- Prototype methods (innerHTML is one)

- Dynamic modification of the DOM (adding new elements, modifications of element)
- JSON data fetch from API or your server using AJAX

If you want to refactor your code for a clean project (you are not forced to do it, but it could be very useful if you want to be better programmers), use the following links :

--CLEAN HTML

<https://github.com/necolas/idiomatic-html>

<https://google.github.io/styleguide/htmlcssguide.html> (for both HTML and CSS)

<http://codeguide.co/> (for both HTML and CSS)

--CLEAN CSS

<https://github.com/necolas/idiomatic-css>

<https://maintainablecss.com/>

<https://cssguidelin.es/> (I think this one is very complete)

<https://github.com/AllThingsSmitty/css-protips> (pro tips for CSS)

--CLEAN JS

<https://github.com/airbnb/javascript/tree/es5-deprecated/es5>

<https://github.com/rwaldron/idiomatic.js/>

<https://standardjs.com/rules.html>

<https://mythbusters.js.org>

<https://alistapart.com/article/coding-with-clarity> (for the very curious)

<https://github.com/ryanmcdermott/clean-code-javascript> (this one is the best)

If you are very interested of doing a great web design, this link is a must-have :
<https://github.com/gztchan/awesome-design>

Example of subject (in case you are lost) :

- To-do list with data fetch from somewhere (I'm not sure with this IDEA)
- A simple portfolio (this can easily be much of a work, watch out !)
- Something related to the weather API
- Something related to the Google Maps API
- Something related to photos services API (instagram, 500px, etc.)
- Something related to Twitter / Facebook / LinkedIn API
- Something related to Youtube / Dailymotion API (A playlist creator, I don't know)
- Something related to music API (Youtube again, spotify, soundcloud)
- There is a cool API for pokemon stuff : <https://pokeapi.co/>
- One other cool for star wars stuff : <https://swapi.co/>
- Also one for marvel comics : <https://developer.marvel.com/>
- And even one for the beer : <http://www.brewerydb.com/developers>

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