

Web Engineering Spring Term 2015

Exercise 2

So far, so good. You are quite happy with the first prototype! However, you plan to develop a couple of extensions for several reasons: to learn new technologies and to make your web site even more attractive. The new goal is to implement an additional menu as well as exploiting new features of HTML5, CSS3 and Flexbox.

Note: The goal of the second series of exercises is to deepen your knowledge of state-of-the-art web technologies. This is the description of the first part of Exercise 2 which is a continuation of your work from Exercise 1. If you have not solved Exercise 1 yet, you need to solve at least Exercise 1.1 or you will not be able to complete the current exercise.

Exercise 2.1

New Menu

As the next step, you want to create a new and more dynamic menu. After some time you came up with the mockup showed in Figure 1. First goal is to reproduce it by only using HTML and CSS. For the moment, you decide to place it **only** in the index.html page in order to first understand how it will look like in your web site. You also decide that, for the moment, the menu can also **not** be responsive. In order to try out CSS3 animations, whenever the mouse hovers an item in the menu that item will shake a bit.

Flexbox and HTML5

Since you discover only now how Flexbox and HTML5 tags can be useful, you decided to take advantages from them by modifying your current solution. Next step will be to use semantic tag in all your pages, and to make use of Flexbox to design the grid layout of your web site.

Note: Independently from whether your solution is already responsive (exercise 1.2) or not, you should convert it by making use of Flexbox in all the pages (index.html, blog.html, contactme.html, portfolio.html) where it is necessary.

Workmode and Grading. All exercises in the Web Engineering course are designed for teams of 3 students. Every member has to contribute to the team solution, and the assistants may ask about the role of each member and who contributed what.

This is the first part of Exercise 2. **The final team solution for Exercise 2 will need to be presented during the exercise session on 26/03/2015.** You do not need to hand in the source code, but the assistants may ask questions about how you implemented some of the features when you demo it in the exercise session. **We will use the following grading scheme.**

Grading Scheme For each part of the graded exercises, we specify the amount of points your team can achieve and a set of requirements. These requirements represent the minimal set of goals you need to accomplish to get full points. If you fulfil the requirements only partially or fail to answer corresponding questions during the presentation, points will be deducted. No or wrong solutions get zero points.

The maximum number of points may differ between parts and thus reflect their respective weights. For Exercises 2.1, the set of requirements are specified as follows:

Set of Requirements - Part 1 (Max. points: 3)

- Fixed new menu layout and CSS3 animation (placed in one corner of index.html) see Figure 1.
- HTML5 semantic tags in all pages (index.html, blog.html, contactme.html, portfolio.html).
- Responsive design of the pages (index.html, blog.html, contactme.html, portfolio.html) developed with Flexbox.



Figure 1: New menu mockup (index.html)