
420-W10-SU
Web Programming 1

Practical Work

Weighting: 25 % of final mark

Instructions :

Work should be completed in teams of 2.

Plagiarism :

Any plagiarism will result in a score of 0.

Due date:

The practical work must be deposited in the dropbox

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in a directory called **pw-yourlastnames**, the last day of the course before presentations begin.

A public presentation of the PW will take place after the final exam. Each presentation should last no more than 7 minutes.

Before you begin, read the following instructions completely.

INSTRUCTIONS

HTML-CSS Integration

- 1. You must create a website with at least 4 pages with a theme of your choosing.**
- 2. Each team member must create at least 2 pages (index + other page, or form + other page)**
- 3. Complete and submit the document “Task-Distribution”**
- 4. Each page must include:**
 - 4.1. a page header with a search box
 - 4.2. a navigation menu (left, top or right), present on all pages, allowing easy access of any page from any page of your site (nav):
 - 4.2.1.1. hyperlink states must be styled differently (default, active, hover, and visited) as well as the link of the current page (the page the user is currently on).
 - 4.2.1.2. On the mobile version of the site, the menu should be adapted to be ergonomic and responsive.
 - 4.3. The main content (main) should be divided into several sections (these can be divided into articles or divs depending on the type of content).
 - 4.4. An aside section where additional information will be visible.
 - 4.5. A footer
- 5. All pages must have a uniform design.**
- 6. You must create a functional model of each page** (by hand or using a tool such as Balsamiq, etc.):
 - 6.1. desktop version
 - 6.2. tablet
 - 6.3. mobile
 - 6.4. You must submit these mockups to the instructor for approval
- 7. Your website must be 100% responsive on computer, tablet, and mobile devices.**

7.1. When the browser window is resized, the navigation window and the contents of the page must fit smoothly within the resized window.

7.2. You must use the Mobile First design approach.

7.3. You must set up a mobile menu for the mobile version (see examples : <https://bradfrost.github.io/this-is-responsive/patterns.html - navigation>)

8. Your website should display correctly and work on the following web browsers:

8.1. Internet Explorer 10 and onwards

8.2. ☐ Firefox

8.3. ☐ Chrome

9. The pages should be as follows:

9.1. ☐ A homepage with:

9.1.1. ☐ a responsive CSS3 slideshow with 3 banners (without using jQuery or JavaScript)

9.1.2. ☐ at least 4 activities, products, featured services (image + name + link).

9.2. ☐ A page that displays a catalogue of activities / products (at least 12). Each item must contain:

9.2.1. ☐ the name of the activity / product

9.2.2. ☐ a short description

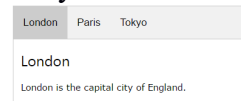
9.2.3. ☐ a small image

9.2.4. ☐ each item must have a link that leads to the next page (9.3).

9.3. ☐ A description page for an activity or product that will include:

9.3.1. ☐ the activity / product details should be responsive and made in CSS.

They should be displayed with accordion or tabs:



- 9.3.2. ☐ an HTML5 video player (use the video files provided and insert an alternative / fallback video from youtube)
- 9.4. ☐ A page displaying a form (contact, booking, or order page, etc.) that must contain at least:
 - 9.4.1. ☐ A required input field of the user name with validation by regex, autofocus, and placeholder.
 - 9.4.2. ☐ A mandatory entry field (required) of the user's first name with validation by regex and placeholder.
 - 9.4.3. ☐ A required entry field of the phone number with validation by regex and placeholder.
 - 9.4.4. ☐ An entry field that accepts an integer (number of items, age, etc.)
 - 9.4.5. ☐ A required email field with a placeholder.
 - 9.4.6. ☐ A list of predefined options (datalist).
 - 9.4.7. ☐ Radio buttons.
 - 9.4.8. ☐ Checkboxes.
 - 9.4.9. ☐ A multi-line text box.
 - 9.4.10. ☐ A submission button.

10. The following conditions must be respected:

- 10.1. ☐ All pages of your website must be valid HTML5 (in the XHTML approach: closing all tags, etc.).
- 10.2. ☐ Formatting must be done only in CSS (do not use <table> or
 for formatting).
- 10.3. ☐ Limit the use of JavaScript or jQuery for inserting features that can not be implemented in CSS (**ask the instructor for approval**).
- 10.4. ☐ **You must submit only one CSS file for your entire website, which includes all media queries.**
- 10.5. ☐ You must insert a Google Map (either on the Contact Page, in the footer, in an aside, etc.).
 - 10.5.1. To show the precise location of your company, you can use the ISI's coordinates: latitude: 45.5440916 and longitude : -73.6424363

- 10.6. ☐ The following must be used in your website (don't over do it, aim for quality over quantity):
- 10.6.1. ☐ Rounded corners (border-radius)
 - 10.6.2. ☐ Drop shadow (box-shadow) or degraded
 - 10.6.3. ☐ Transparency (opacity or rgba)
 - 10.6.4. ☐ You must use at least one custom font (@font-face, GoogleFonts)
- 10.7. You must incorporate at least:
- 10.7.1. ☐ one CSS3 transition
 - 10.7.2. ☐ one advanced animation (@keyframes)
- 10.8. Images must maintain their proportions without any loss of quality:
- 10.8.1. ☐ do not deform them
 - 10.8.2. ☐ choose images above 2000px for full-width banners
- 10.9. ☐ Please use maximum relative units for element size (combine with min-width / max-width and min-height / max-width if necessary)
11. ☐ **Your code must be well commented and indented.**

SCHEDULE

Respecting the schedule will result in higher points in the weighting of your Practical Work. Submission dates are subject to change depending upon course development. The final schedule will be submitted at a later point.

EVALUATION CRITERIA

Criteria	Points
Follow instructions	10
General appearance, coherence of the whole	10
HTML5 code is valid according to W3C standards	4
Document contains proper semantics	8
The code (HTML and CSS) is correctly commented and indented	4
Evaluation of 12 mockups (desktop, tablet and mobile versions)	6
Formatting with CSS only (no <table>, not badly applied, no inline style) and using a single external style sheet that contains all media queries	10
Establishment of good practices from an ergonomic point of view	3
The site is displayed correctly and smoothly on all dimensions	10
The site is displayed correctly on Chrome, Firefox and IE10	4
The form is correctly coded and contains the required elements	7
The required visual features have been included (border-radius, gradient, webfonts, etc.)	6
Presentation (individually marked)	2
General Appreciation: originality, efforts, improvements, research, interaction, ergonomics, etc. (individually marked)	10
Respecting the schedule	6
Total	100