Web technologies

Exercise Set 1

1. Open „System Zapisów" web site in your favorite Google Chrome web browser. Open the development tools presented during the lecture and ensure that the document tree (DOM) tab is active. Apply the following changes:

   - Change the value of the *title* to WTF. Check what has changed on the web site.
   - Replace the link to CSS file to the wrong value and check has changed on the web site.
   - Duplicate the latest news and modify its date to the next day.

   All the above should be demonstrated during the laboratory classes.
   [1p]

2. Create an empty HTML5 file. Save it as index.html and ensure with W3C validator it is correct.
   [1p]

3. Hyperlinks. Copy index.html twice as zadanie3.html and zadanie3a.html. In zadanie3.html create 3 links: absolute link to `www.onet.pl`, absolute link to *zadanie3a.html* and relative link to *zadanie3a.html*. Using those links demonstrate how the *base* tag works (a hint: introduce a folder structure). Create an appropriate example and demonstrate also how anchoring works.
   [1p]

4. Maps. Copy index.html as zadanie4.html. Create a sample map where circle and rectangle shapes are introduced.
   [1p]

5. Lists. Copy index.html as zadanie5.html. Create a numbered list of 3 cars' brands and then an unnumbered list of 3 cars' models.
   [1p]

6. Tables. Copy index.html as zadanie6.html and replicate the table from the slide No. 36.
   [1p]

7. Forms. Copy index.html as zadanie7.html. Using full power of HTML5 forms functionalities create a bank tranfer form with the following fields: receiver's account number, firstname, lastname, e-mail, address, postal code, city, transfer amount, transfer date.
   [1p]

8. Images. Copy index.html as zadanie8.html. Review the following article `https://en.wikipedia.org/wiki/Data_URI_scheme`, read about Base64 encoding, create an image with your firstname and lastname, and finally add the image to zadanie8.html in a way described in the article.
   [1p]

9. HTML5 layout. Copy index.html as zadanie9.html. Using full power of new HTML5 layout tags, create a template including: header with a logo, horizontal menu, breadcrumbs (i.e. path expressing current position in the overall website), area for recently reviewed articles, area for 5 recent blog posts and footer. Each area should contain a sample content, moreover, each of 5 recent blog posts should be presented with a title and 2 lines of an intro. The goal is to reflect on the struture and applying the appropriate HTML5 tags. There is no need to ensure the visual part (focus is on the HTML code), but prepare in Paint or any other application a visualization of the considered web page.
   [2p]

All files must be verified by W3C validator:

http://validator.w3.org/

Paweł Rajba