Practical Course "Web Technologies"

Exercises 3

This assignment will give you practice creating HTML forms and later on using Javascript/JQuery to process their contents to generate interesting or useful outputs.

Visual Studio Code provides basic support for HTML programming out of the box. There is syntax highlighting, smart completions with IntelliSense, and customizable formatting. VS Code also includes great Emmet support. Visual Studio Code has built-in support for editing style sheets in CSS `.css`, SCSS `.scss` and Less `.less`. In addition, you can install an extension for greater functionality:

https://marketplace.visualstudio.com/items?itemName=ecmel.vscode-html-css

Furthermore, https://marketplace.visualstudio.com/items?itemName=alefragnani.project-manager helps to organize files in a project riented way.

Exercise 3.1.

a. Create a .html document that reproduces the following:

Home Part 1 Part 2 Contact

HTML Example

Part 1

Latin Lorem ipsum: Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.

German Damit Ihr indess erkennt, woher dieser ganze Irrthum gekommen ist, und weshalb man die Lust anklagt und den Schmerz lobet, so will ich Euch alles eröffnen und auseinander setzen, was jener Begründer der Wahrheit und gleichsam Baumeister des glücklichen Lebens selbst darüber gesagt hat.

Part 2

The School of Electrical Engineering, Electroncis and Computer Science consists of two departments:

- the Department of Computer Science
- the Department of Electrical Engineering and Electronics

The module CSA231 covers the following topics:

1. HTML/CSS/JavaScript
   1. HTML
   2. CSS
   3. JavaScript
      - Control structures
      - Inheritance

Created by somebody

The text (unformated) is available in Moodle.

In producing the markup take into account the following:

- At the top is a navigational aid. Think about the proper markup for that part of the document.

- The text in Part 1 contains international accent marks and is in three different languages. The markup should indicate those languages and reproduce the international accent marks.

- At the bottom of the page is some information about the creator of this page. Replace <your name> by your own name and <your e-mail address> by your e-mail address. Also, think about the proper markup for that part of the document.

b. Use the Validator at https://validator.w3.org/ to ensure that your markup is valid. Remember that the Validator can only check whether you have followed the syntactic rules of HTML5, not whether your markup correctly reflects the semantics of parts of the document.

c. Extend the document by something that reproduces the following

Name	Position	Office	Age	Start date	Salary
Airi Satou	Accountant	Tokyo	33	2008-11-28	$162,700
Angelica Ramos	Chief Executive Officer (CEO)	London	47	2009-10-09	$1,200,000
Ashton Cox	Junior Technical Author	San Francisco	66	2009-01-12	$86,000
Bradley Greer	Software Engineer	London	41	2012-10-13	$132,000

d. When selecting 'Contact' in the navigation line a new HTML-page shall be shown, e.g.

Home Part 1 Part 2 Contact

Contact

Your Email-address: [   ]
Your message:

[   ]

[send message]

Created by somebody

Exercise 3.2.

You want to improve the visual appearance of the HTML document.

Add style directives to this style-element and, where necessary, class attributes to the HTML markup for the table-element, to achieve the following:

− The background colour of the navigation bar shall be #333333.

− The foreground colour of a link in the navigation bar shall be #F2F2F2 and shall have a top-padding of 14px and a bottom-padding of 18px.

− If a link is active, the background colour shall be #C8EBFA.

− if the mouse is over a link (hover), the background colour shall change to #E6E6E6 and the forground colour to black.

− All data and header cells of the table should have borders.

− The numbers in data cells should be right-aligned.

− The names should be left-aligned in their cells.

− The background colour of header cells should be light blue.

− The background colour of every second row should be #F2F2F2, but this should not affect header cells.

− The table caption should be centred over the table, use a bold font and have a 1ex margin to the table.