King Fahd University of Petroleum & Minerals

College of Computer Sciences and Engineering

SWE 363: Web Engineering and Development (Term 182)

Homework Assignment #1 [Due Saturday, February 2, 2019]

This assignment tests your understanding of basic HTML5 and CSS

A: Write the page content with HTML and CSS

Write the HTML and CSS code necessary to create the following appearance of the home page of the intended website. No server-side control is required.

The home page shows some building of KFUPM campus. It is expected to introduce a header and footer in the home page as shown above, in addition to the image. The image will be shown as an image-map which has clickable areas. It is required to determine two buildings in the image to be clickable areas. For each area, a web page will be developed to display an information about that building/college. In the description page, it is expected to use various HTML elements including, but not limited to, headings images, tables, lists, etc.

B: Create a separate HTML for each selected college

When the user hover a clickable area, a short description will upper about that corresponding place. If he clicks on the hovered (selected) area, another HTML page that shows a unified-look page will appear (simple page contains logo of that college in addition to a brief description of that college). In the developed pages, it is required to utilize the HTML tags with CSS. Also make sure to have well-formatted source code and add meta tags to enhance the site visibility to search engines.

C: create a separate HTML page for each Contact us link

When the user clicks on Contact us link on the footer of the home page, a separate page contains the following input items:

- **Name** text input
- **College** (Combobox contains name of only three colleges)
- **Email** text input
- **Rich text** input that contains the message
- **Submit** and **Reset** buttons.

D: Use CSS to the created HTML pages.

It is required to style your page by writing several CSS rules in a separate file and apply the defined rules to your HTML code (the same to all pages for the sake of consistency).

1. With your text editor, create a new file and name it style.css

2. In the section of HTML page(s), add the link required to the external CSS file.

3. Back in the CSS file, write at least 5 various CSS rules. You can have more than five style rules to fit the vision you have imagined for the page; these are just the minimum.

4. You may use properties such as color, background-color, font, width/height, text decoration, borders, etc. Also try to use CSS rules that you haven't seen in class, but discovered through your own reading or you searched for them according to your page's needs.

E: Validation of your created files

1. Validate your HTML files using https://html5.validator.nu/ and provide a screenshot of the result. A link to the validation results (snapshot) can be added in the footer of the webpage.

2. Validate your CSS files using https://jigsaw.w3.org/css-validator/ and provide a screenshot of the result. A link to the validation results (snapshot) can be added in the footer as well.

Submission

1. Create an account in CCSE server and publish your website there (make the home page as the index.htm)

2. Zip all the folder and name it 181-SWE363-Sec-ID-Homework1 (where Sec is your section and ID is your KFUPM ID), which include the HTML pages and the subfolders images and styles. Submit through blackboard to your instructor.

3. Provide also the URL to access your website in an included readme file.

Due Date/Time

Homework is due at midnight on Saturday February 2, 2019. Furthermore, remember that you should not modify turned in work after the due time (unless informed otherwise by the instructor).

Grading

Your HTML and CSS code must be written cleanly and indented appropriately to reflect the structure of the elements you are defining. This is a graded aspect of every assignment. Furthermore, you must comment your code in all pages. Comments include a header comment at the top of the file, and comments within the code when a comment will help clarify the purpose of a line or section of code. You should also enter comments to explain where you found code that was not discussed in class. These are the criteria we use to grade the homework:

- Folders and files have the required names and are uploaded to the location (that you provided its URL).

- Error-free according to the validation results (for HTML and CSS).

- Your files have comments at the top and as necessary interspersed in the code.

- You have used all HTML elements we required and applied styling (through CSS rules).

- The links are not broken.

- Your images have small sizes and been shown perfectly in the webpages.

- Creative design and appearance of the website.

- The work should be yours and not copied from other sources or students.