King Fahd University of Petroleum & Minerals

College of Computer Sciences and Engineering

SWE 363: Web Engineering and Development (Term 201)

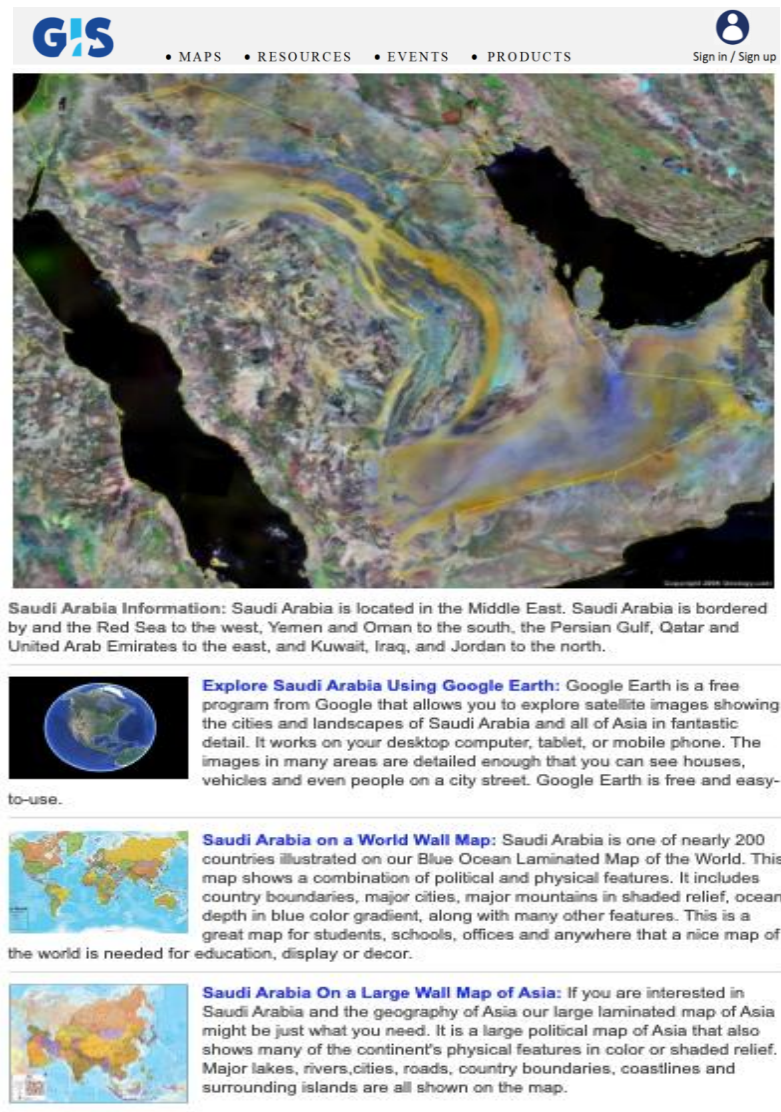**Homework Assignment #1 [Due Monday, September 28, 2020]**

This assignment tests your understanding of HTML5 and CSS

Note: No server-side control is required.

A: Write the page content with HTML

Write the HTML code necessary to create the following appearance of the home page of the intended website.

- The home page shows the Saudi Arabia map and three sections each of them has its heading, image and description. It is expected to introduce a header in the home page contains the logo and menu links (no need to make a page for each menu link), in addition to the image and other sections

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shown in the home page above. The map image shown below the header section will be shown as an **image-map** which has clickable areas. It is required to determine three cities in the KSA's map image to be clickable areas. For each city, a web page having the same header of the home page in addition to some information about that city will be displayed.

- When the user hovers a clickable area, a short description will upper about that corresponding city. If he clicks on the hovered (selected) area, another HTML page that shows a unified-look page will appear (simple page contains the logo of the home page in addition to a brief description of that city). You may provide external links to related websites about the corresponding cities (e.g. history, heritage, events, tourism, etc.)

- The website also provides a log in and subscription functionalities where the user can log in or register to get the latest news and coming events in different cities. The home page should show a link for the user to feed his information for login or subscription. When the user clicks the link, it navigates to the registration form where he can fill his information including name, email and his favorite cities. The registration page should have the same header as the home page. (*Note that no need to implement the server-side code of this web page.*)

- In each created page, it is expected to use various HTML elements including, but not limited to, headings images, blocks, lists, bookmark, external links, etc. Also, make sure to have well-formatted source code and add meta tags to enhance the site visibility to search engines.

- All the pages in this website should have the same header and footer of the home page.

B: 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 (screenshot) can be added in the footer of the webpage.

Submission

1. Create an account in CCSE server (or any other server) and publish your website there (make the home page as the index.htm)
2. Zip all the folders and name it 201-SWE363-Sec-ID-HW1
   o Where Sec is your section and ID is your KFUPM ID, e.g. 201-SWE363-02-20180000-HW1
3. The Zip file should include the main pages and two subfolders for the HTML pages and the used images.
4. Submit through blackboard to your instructor.
5. Provide also the URL to access your website in an included readme file.

Grading

Your HTML 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).
- Your files have comments at the top and as necessary interspersed in the code.
- You have used all HTML elements we required.

- 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.
- You tried to utilize various HTML tags introduced in the lectures.