COM S/SE 319: Construction of User Interfaces
Spring 2023

Midterm Project

[Total Points: 100]
Assignment Due: Sunday, **March 12th, 2023**, 11:59PM

1. Overview

The project has the purpose of putting into practice everything learned in class until Week 8.

The information contained on the website is the preference of the students.

The Midterm project is a multi-page website consisting of images and text from a context of the students' preference and a context that allows them to obtain information (images and text) that is appropriate and convenient for them.

Students are expected to design and develop a website with perfect functionality and a very good aesthetic appearance.

The Midterm project will contain the different technologies that we have covered in the course until Week 08 ending on Friday March 10th, 2023 (more details in section Requirements).

The addition of more advanced technologies won't be penalized. However, if the inclusion of more advanced technologies interferes with the review of the project at the time it is reviewed by the TA, the TA can decide whether to penalize the project or not.

2.- Functionality

The website is made up of different web pages. The user must be able to navigate from one page to another without any difficulty or problem. The web pages are purely informative; that is, it is not expected to input any data. All the buttons included to navigate must work.

It is expected to have a good aesthetic appearance in the web pages. However, it is not specificized how good or bad is a good or bad design. We will give freedom to the creativity and skill of the students in this regard.

3.- Requirements

*   The minimum technologies that the project must include are:
    o   HTML
    o   CSS
    o   Javascript (including DOM)
    o   JSON

*   And the optional technologies reviewed in class which can be included are :
    o   Bootstrap

- The website must contain at least 2 web pages containing images and their corresponding text.
- The main web pages must be named **index.html**. The name for the other web pages is as the convenience of the students.
- The Javascript file must be in the same folder "./" together index.html with name **index.js**.
- Every webpage must contain at least three images and their corresponding three texts.
- The texts must be stored in a JSON file containing at least three properties or attributes per image. The name of the JSON file must be **data.json**. That is, every image must have three attributes, such as, productid, description and price. The addition of more attributes per image is not penalized.
- There is required one third web page containing the information of the team members:
  - Name of the course: SE/ComS319 Construction of User Interfaces, Spring 2023
  - Date
  - Students: Complete name, ISU email
  - This page does not require images.
  - The text can be written directly in the HTML file. E.g., the information from students is not required to be managed by Javascript.
- The website must have a navigation bar.

Structure of files and folders :
- There will be a folder of images with name <u>images</u> where all of them are contained.
- If there is a file with CSS styles, the file must be in a folder named <u>styles</u>.
- The HTML index.html, the Javascript index.js and JSON data.json files are at the root of the website folder. E.g., these files are in the path "./" and the images are in the "./images/" folder. If there are more than one JSON file or more than one Javascript file, these can be also in the root folder too. And the names can be as the convenience of the students.

The webpages are based on HTML and the students will define what images and texts will be managed (published) by Javascript code. However, the web page can contain more images and texts as needed by the students, static in the HTML, such as a static web page design. E.g., if it is needed to add company logo, bullets, web page header, footer, etc., some other images and additional text to improve the webpage design, that won't be penalized.
To distinguish the images not managed by Javascript, these images will be stored in "./myotherimages/".

Github :
- The project will be reviewed on Canvas. Given that, there is a due date for handing it there. Additionally, all the files must be submitted to Canvas. However, there is a great opportunity that we do not want to miss to see our project in a public repository. So, it will be required to publish the website on Github as well.

<mark>*Please take your precautions to finish the project on time. The following week after the due date is Spring Break, then will be impossible to extend the submission date.</mark>

4.- What to submit

- Include all html files.

- Include all JSON files.
- Include all Javascript files.
- Include the folders with all images files.
- Include the folders with CSS files (if any)
- Compress the files to a .zip file and rename it "Midterm_TEAMNUMBER.zip".
- Submit via Canvas the **compressed file (.zip)**.

*Where TEAMNUMBER is the number in the column Team in Canvas where is the list of teams and team members. That will allow the TA and instructor to review and assign the same grade to the team members.

*It is required submit ONLY ONE compressed file (.zip) per Team.

2. **The Rubric to grade this assignment is as follows:**

   This Assignment has a total value of 100 points.

   Late submission will deduct 5 points per day late.

- Has the Midterm one HTML file named **index.html** ? _____ / 5
- Has the Midterm one Javascript file name **index.js** ? _____ / 5
- Has the Midterm the Javascript that managed the images and text to HTML ? _____ / 30
- Has the Midterm the text (**data.json**) contained in a **JSON** file ? _____ / 30
- Has the Midterm at least 2 pages of images w/text ? _____/ 10
- Has the Midterm one page with the student information ? _____ / 5
- Has the Midterm a Navigation Bar and it functions appropriately ? _____ / 10
- Is the Midterm published in Github ? _____ / 5

Total points : 100