

SYSC4504

Fundamentals of Web Development (Winter 2023)

Lab 1 – Coding Review and HTML Basics

| | Name | Email | Section | Responsibility |
|------------|----------------|--|----------|--------------------------|
| TA: | Amir Ghorab | amirhoseeinghorab@gmail.com | L10, L30 | Res 1 & Res 2 |
| | Omar Imran | OmarImran@gmail.com | L10, L20 | Res 1 |
| | Nihal Kulkarni | nihalkulkarni@gmail.com | L30 | Res 1 |
| | Kristen Beange | kristenbeange@gmail.com | L20 | Res 1 |

TA Responsibilities:

Res 1. Lab Administration (answering questions and attendance)

Res 2. Grading submitted work

Marking scheme:

You can discuss your solution with other students; however, you have to submit your own work, you cannot submit the exact same work (solution) of other students.

The marking contains two components:

1. Lab attendance and it is graded as follows (**1 point**):
 - You must answer questions from the TA during the lab time to confirm your understanding of the topics covered
 - You will receive **Un-Satisfactory (U)** grade if you only finish questions 1 & 2 (0/1)
 - You will receive **Marginal (M)** grade if you only finish questions 1 to 3 (1/1)
 - You will receive **Satisfactory (S)** grade if you finish all the questions (1/1)
2. Your submitted work will be evaluated based on the completeness and functionality (**2 points**).
 - Refer to the “**File Submission**” section at the end of this document for more details.

Table of Contents

| | |
|---|----------|
| I. Introduction | 2 |
| II. Objective..... | 2 |
| III. Project Preparation | 2 |
| IV. Project Implementation | 2 |
| Part 1: Create the website structure (HTML) | 2 |
| Part 2: Change the website’s style (CSS)..... | 4 |
| V. File Submission..... | 5 |

I. Introduction

In this lab, you will work on creating a project to practice the HTML and CSS topics covered during lectures. The lab is divided into two parts (HTML and CSS). This lab's project is the first step in the creation of a fan page about XBOX, PlayStation or Nintendo. You can choose either one of the consoles based on your preference.

NOTE: It is recommended to go over chapter 3 (related to part 1) and 4 (related to part 2) from the textbook before attempting the lab.

II. Objective

Apply the theory that was learnt during lectures about HTML and CSS in create a simple website.

III. Project Preparation

1. Create a folder named "firstname_lastname_lab02".
2. Inside that folder create two folders named "images" and "assets".
3. Create another folder named "css" inside the "assets" folder.
4. In the main folder, create a file named "index_no_css.html".
5. Download the provided image from Brightspace and move them to the "images" folder created in step 2

IV. Project Implementation

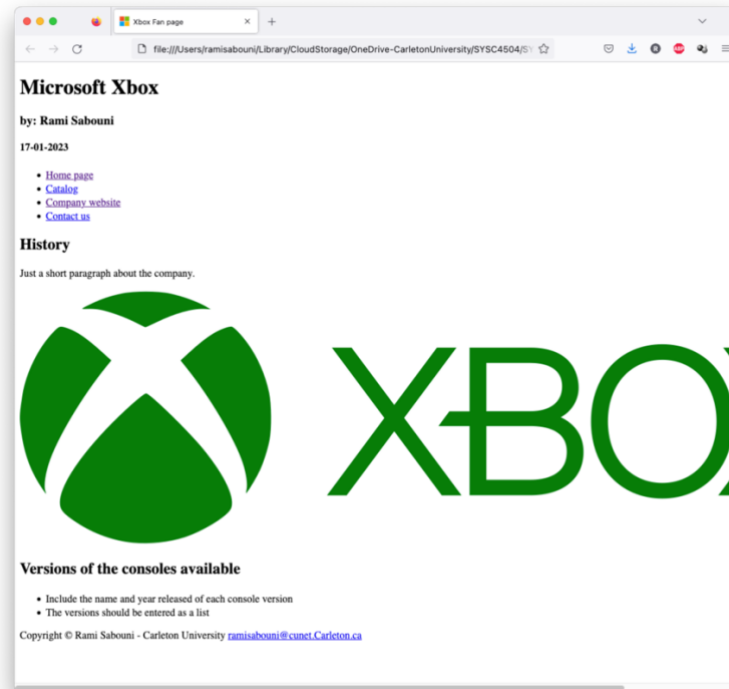
The Project is divided into two parts, HTML and CSS. In both parts, you will start from scratch and build up on it. You will start first by creating the page's structure using HTML in part 1 then apply some styling using CSS in part 2.

NOTE: You can choose to speed through the lab and do the minimum amount of work to simply gain the lab's credit. However, it is recommended to finish the mandatory and optional parts of the lab.

Part 1: Create the website structure (HTML)

In this part, you will work on creating the page's structure. At this point of the lab, you should use only HTML markup, no styling commands yet. All your work for Part 1 will be on the "index_no_css.html" document.

Your resulting web page should, as much as possible, look similar to the screenshot provided below. **Note:** the page is rendered with Firefox as the browser.



The following components should be included in your webpage:

1. Page title
 - This is what will be shown in the browser's tab
2. Webpage icon.
 - The page icon is displayed on the left of the webpage title in the tab.
 - It needs to be inserted in the head of the page as it is part of the meta data of the page. See the syntax below:

```
<link rel = "icon" href = "Enter the path of the icon's image " type = "image/x-icon">
```

3. Page header
 - The page header should include the following:
 - Name of the console you are creating the website for
 - Your name as "by: First_name last_name"
 - The date the page was last update (lab's date)
4. Navigation bar
 - The following should be included in the navigation bar:
 - Home page
 - Catalog
 - Company website
 - ◆ This should be the console's company name (example: PlayStation -> Microsoft)
 - Contact us
5. Find some details about the console you are creating the page for.

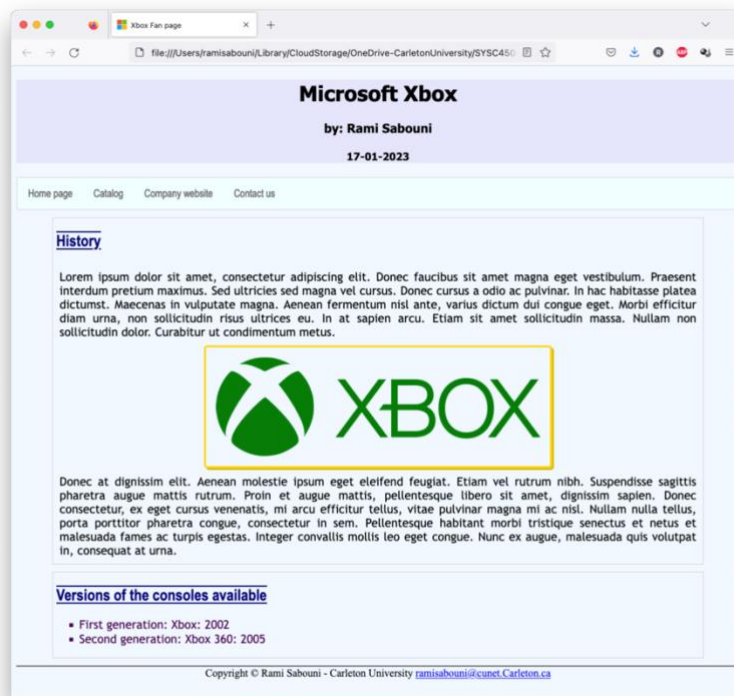
- You are allowed to copy the text from online resources, as long as you cite them.
 - **Hint:** You need to use <cite> tag for that
- The following sections should be included:
 - i. History
 - Just a short paragraph about the company.
 - The logo should go somewhere here in this section
 - ii. Versions of the consoles available
 - Include the name and year released of each console version
 - The versions should be entered as a list
- 6. Page footer
 - Just copy right with your name and your email address

Before submitting the file, use <http://validator.w3.org/> to confirm that your solution is proper HTML5.

Part 2: Change the website's style (CSS)

In this part, you will work on changing the page's style (looks). All the styling should be done as an external style. No inline styling is allowed in this lab.

Your resulting web page should, as much as possible, look similar to the screenshot provided below. **Note:** the page is rendered with Firefox as the browser.



Before you start working on this part you need to do the following:

1. Make a copy of your solution from part 1 and rename it to “index.html”.
2. To start with styling, you need to create a style sheet first. In the “css” folder created earlier, create a new file and name it “style.css”.
 - All your styling should go in this file.
3. Remember to include the style sheet inside your page <head> tag. Refer to lab 1 for more details.

To achieve a full mark for this part of the lab, your solution **must** have the following:

- For every tag used in the HTML document, you must modify at least one of their properties.
- Below is a list of properties that are mandatory and you must use all of them in your document.
 - **Note:** They don’t have to be used in every element, as long as they are used at least once in your document

- | | |
|--------------------|-----------|
| ♦ text-align | ♦ height |
| ♦ background-color | ♦ border |
| ♦ font-size | ♦ margin |
| ♦ font-family | ♦ padding |
| ♦ width | ♦ color |

The optional requirements are more of grouping of different properties to achieve a certain feature. You can refer to the provided code on brightspace for ideas. Examples of optional features:

- ♦ navigation bar on the left/right or top of the page
- ♦ border around each section in the document
- ♦ separating the footer from the main part of the page
- ♦ Any other features that were covered in the course so far you feel like adding/testing

V. File Submission

After you finish all the exercises:

1. Compress your project’s folder that you created at the beginning of the lab and submit it to Brightspace.
 - **IMPORTANT:** The only allowed extension is: **.zip**
2. Once you are done, you must answer few questions from one of the TAs during the tutorial time to be “signed out”
3. Submit your work on Brightspace.
 - No email submissions are allowed

- Missed deadline will result in an automatic zero