

Lab 3 – CSS and Multimedia

Purpose

- Implement a Web Design Template (Header, Footer, and Menu) using CSS style
- Implement examples of different CSS selectors
- Add Images, Audio and Video to a web page
- Upload your website to a Web server

Due Date

- This lab must be handed in:
Friday Sept 24, 2021 – before midnight

Assessment

- This Lab is worth 2% of your total course mark.

Assigned Readings

- **Lecture Slides** posted on Brightspace:
 - Module 1 -> Part 2
 - Module 1 -> Part 3
- The following chapters of **Fundamentals of Web Development** will be useful in completing this exercise:
 - Chapter 2
 - Chapter 3
 - Chapter 4

Lab Supplies

To complete this lab you will require the following lab supplies:

- Textbook: **Fundamentals of Web Development**
- Lecture Slides (**Module 1 -> Part 2, Module 1 -> Part 3**) posted on Brightspace
- Code Samples (**CSS Sample.zip, Multimedia Sample.zip**)
- Notepad++ (or other text editor, or IDE)

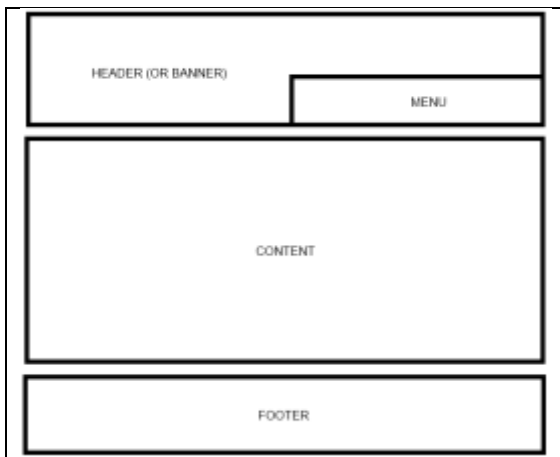
Summary of Tasks

1. Common Look and Feel
2. Implement a Web Design Template using an EXTERNAL CSS file
3. Create index.html
4. Create Multimedia.html
5. Upload your website to a webserver
6. View your webpage using a web browser
7. Submit Lab Link on Brightspace

Task 1

Before getting started with the following tasks review the 'Common Look and Feel' materials provided on Brightspace (under: Course Content → Extra Materials). Using the knowledge gained in these materials create a 'Common Look and Feel' to be used on every page of your website.

You must implement the specified Design Template (**Course Content → Extra Materials → Common Look and Feel → Design Template4.png**) on every page of your website.



Each page in your web site must have the following identical common elements: Header, Footer, and Menu.

- Header
 - Program Name and Course Name
- Menu
 - Links to both **index.html** and **Multimedia.html**
- Footer
 - Student Number, First Name, Last Name, Email Address

The Content Area in each page will be different depending on the purpose of the page (described in Task 3 and Task 4).

Task 2

Create a CSS file called `StyleSheet.css` that will modify your site in the following ways:

- Create an ID called 'header'
 - Create CSS to style the header section of your webpage
- Create an ID called 'footer'
 - Create CSS to style the footer section of your webpage
- Create an ID called 'menu'
 - Create CSS to style the menu section of your webpage
- Create an ID called 'content'
 - Create CSS to style the content section of your webpage

Task 3

Create a web page named 'index.html' that implements the specified 'Design Template' for 'Common Look and Feel'. The title of the web page will be 'CSS Examples'. The Content Area of this web page must display **the style rules** and **at least one example** of each type of the following CSS selectors:

- (i) Class selector.
- (ii) Id selector.
- (iii) Attribute selector.
- (iv) Pseudo selector.
- (v) Contextual selector.

You need to modify `StyleSheet.css` to specify the properties of the CSS selectors required for the Content Area of Task 3.

Provide an external link to the CSS file 'StyleSheet.css' to use the theme you created in Task 2.

Create Lab 3 submission folder '**Lab3**' and copy **index.html** and **StyleSheet.css** inside this folder.

Sample Content Area of *index.html* is below:

This is a sample content for Task 3.

Style Rule of Class Selector

```
.first {  
    font-style: italic;  
    color: brown;  
}
```

Example of Class Selector

Reviews

By Rejaul on Jan 15, 2021

I love Central Park.

Style Rule of Id Selector

```
#latestComment {  
    font-style: italic;  
    color: blue;  
}
```

Example of Id Selector

Reviews

By Rejaul on Jan 15, 2021

I love Central Park

Style Rule of Attribute Selector

```
[title] {  
    cursor: help;  
    padding-bottom: 3px;  
    border-bottom: 2px dotted blue;  
    text-decoration: none;  
}
```

Example of Attribute Selector



[Canada](#)

Canada is a North American country consisting of...



Style Rule of Pseudo Selector

```
a:link {
  text-decoration: underline;
  color: blue;
}

a:visited {
  text-decoration: underline;
  color: purple;
}

a:hover {
  text-decoration: underline;
  font-weight: bold;
}
```

Example of Pseudo Selector

To know about links visit the [W3C](#) website.

1. [Google](#)
2. [Yahoo](#)
3. [Amazon](#)

Style Rule of Contextual Selector

```
ul a:link {
  background-color: yellow;
}

#main div p:first-child {
  color: green;
}
```

Example of Contextual Selector

- [Google](#)
- [Yahoo](#)
- [Amazon](#)

I love Central Park.

I love National Park

N.B.: It is NOT necessary to make the content area of Task 3(index.html) identical to the sample content area provided in this documentation. You just need to make sure that you have implemented at least one example of each type of the above mentioned CSS selectors. You must display the corresponding style rules as specified in the sample screenshot. Please feel free to use your own images.

Task 4

Create a page named 'Multimedia.html' that implements the Design Template specified in Task 1.

The title of the web page will be 'Multimedia Examples'. This page needs to contain:

- 4 images in a 2x2 table
- At least one embedded audio file
- At least one embedded video file

Copy **Multimedia.html** and **all images/audio/video** files inside **Lab3** folder.

N.B.: Multimedia.html MUST contain Design Template as specified in Task 1.

Task 5

Upload your websites for Lab 3 into a Web Hosting Server by uploading '**Lab3**' folder inside the 'public_html' directory of 'SiteGround' Web Hosting domain using Dashboard.

The 'File Upload' instruction is posted on Brightspace ([Course Contents -> Module 1 -> Part 2 -> SiteGround_FileUpload_Instruction.docx](#)).

Task 6

View your websites for Lab 3 using a web browser. Open a web browser and navigate to the following web address:

`http://your_web-hosting_domain_name/Lab3/<filename>`

For example, the sample URL for the Task 3 of Lab 3 on an arbitrary web hosting domain is:

rejaulc.sgedu.site/Lab3/index.html

where 'rejaulc.sgedu.site' is the name of an arbitrary web hosting domain, '**Lab3**' is the submission folder for Lab 3, '[index.html](#)' is the source code for the Task 3 of Lab 3.

Task 7

Once you have confirmed that your webpage is available online, you are ready to hand in your lab.

Create a word document (Lab3.doc) in which write the following Information:

- Student Number
- First Name
- Last Name
- The URL, or hyperlink, for the Task 3 of Lab 3

To hand in your lab go to Brightspace and navigate to Course Content → Labs and click on 'Lab 3 – CSS and Multimedia' link.

Upload the word document (Lab3.doc) on Brightspace.

IMPORTANT NOTE:

If the URL, or hyperlink, does not direct the professor to the lab you will receive a ZERO for the lab assignment.