

Lab 2 – Create a Novice Website

Purpose

- Create a novice website
- Upload your website to a Web server

Due Date

- This lab must be handed in before the due date, at the end of Week 2.
Friday Sept 17, 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
- The following chapters of **Fundamentals of Web Development** will be useful in completing this exercise:
 - Chapter 2

Lab Supplies

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

- Lecture Slides (**Module 1 -> Part 2**) posted on Brightspace
- Textbook: **Fundamentals of Web Development** by Randy Connolly and Ricardo Hoar
- Notepad++/Notepad (or any other text editor, or IDE)

Summary of Tasks

1. Use the knowledge gained in 'Introduction to HTML5' under 'Course Content-> Module 1- The Web, HTML and CSS -> Part 2-Introduction to HTML5' to create a novice web page.
2. Upload your website to the webserver
3. View your webpage using a web browser
4. Submit the URL (hyperlink) of Lab 2 on Brightspace

Task 1

Use the knowledge gained from this week's lecture (Module 1 -> Part 2- Introduction to HTML5 -> Introduction to HTML5) to create a novice website.

The title of the web page will be "**ELEMENTS OF HTML5**".

The web page must display the syntax and an example (output) for each of the following HTML5 Elements:

1. Heading element.
2. Paragraph element.
3. Line Break element.
4. Blockquote element.
5. All Phrase elements (, , <i>, <mark>, <small>, , <sub>, <sup>).
6. All Lists (Unordered, Ordered, Description).
7. Special characters.
8. Anchor (Absolute, relative and email hyperlinks) element.
9. Meter element.
10. Progress element.
11. Data list control.
12. Slider control.
13. Calendar control.

Name this webpage: **index.html**

Create Lab 2 submission folder '**Lab2**' and copy **index.html** into this folder.

The expected output for **index.html** is below:

Elements of HTML5

1. Heading Element

- Syntax:

```
<h1>This is heading 1</h1>  
<h2>This is heading 2</h2>  
<h3>This is heading 3</h3>
```
- Output:

This is heading 1

This is heading 2

This is heading 3

2. Paragraph Element

- Syntax:

```
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
```
- Output:

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

3. Line Break Element

- Syntax:

```
<br>
```
- Output:

a
b
c
d
e

4. Blockquote Element

- Syntax:

```
<blockquote>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
```
- Output:

“Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.”

5. Phrase Elements

- Syntax:

```
<b>bold</b> text.  
<em>emphasized</em> text.  
<i>italicized</i> text.  
<mark>mark</mark> text.  
<small>small</small> text.  
<strong>strong</strong> text.  
<sub>sub</sub> text.  
<sup>sup</sup> text.
```
- Output: **bold text.** *emphasized text.* *italicized text.* **mark** text. small text. **strong text.** sub text. sup text.

6. Lists

a) Lists Unordered

- Syntax:

```
<li>example a</li>  
<li>example b</li>
```
- Output:
 - example a
 - example b

b) Lists Ordered

- Syntax:

```
<ol>  
  <li>example a</li>  
  <li>example b</li>  
</ol>
```
- Output:
 - example a
 - example b

c) Description list

- Syntax:

```
<dl>  
  <dt>Triangle</dt>  
  <dd>Pyramid</dd>  
  <dt>Square</dt>  
  <dd>Cube</dd>  
</dl>
```
- Output:
 - Triangle
 - Pyramid
 - Square
 - Cube

7. Special Characters

- Syntax:

```
<copyright">copy</copyright>  
<less"><!--</less">  
<greater">></greater">  
<ampersand">&</ampersand">
```

- Output:
©
<
>
&

8. Anchor Element

a) Absolute link

- Syntax:

Link to a different website: ``

- Output:
Link to a different website: [www.google.ca](http://www.google.ca/www.google.ca/)

b) Relative link

- Syntax:

Link to a different page on the same website: ``

- Output:
Link to a different page on the same website: [Lab8](#)

c) E-mail hyperlink

- Syntax:

Link to mail program connected with browser or a message is displayed: ``

- Output:
Link to mail program connected with browser or a message is displayed: me@gmail.com

9. Meter Element

- Syntax:


```
<meter value="100" min="0" max="100">100/100</meter>  
<meter value="50" min="0" max="100">50/100</meter>  
<meter value="10" min="0" max="100">10/100</meter>
```

- Output:


10. Progress Element

- Syntax:

```
<progress value="700" max="1000">700</progress>
```

- Output:


11. Datalist Control

- Syntax:

```
<label for="fruit">Fruit</label>  
<input type="text" name="fruit" id="fruit"  
  list="fruits">  
<datalist id="fruits">  
  <option value="Peaches">  
  <option value="Apples">  
  <option value="Pears">  
</datalist>
```

- Output:
Fruit

12. Slider Control

- Syntax:

```
<label for="Hunger">  
  Express how hungry you are between 1 and 10<br>  
  Low<input type="range" name="myChoice" id="Hunger" min="1" max="10">High  
</label>
```

- Output:
Express how hungry you are between 1 and 10
Low High

13. Calendar Control

- Syntax:

```
<label for="theDate">What day?</label>  
<input type="date" name="theDate" id="theDate">
```

- Output:
What day?

Task 2

Upload your website for Lab 2 into a Web Hosting Server. You need to sign up for a free web hosting domain from 'SiteGround' Web Hosting Company.

The 'Sign Up' instruction will be posted on Brightspace ([Course Contents -> Module 1 -> Part 2 -> SiteGround_SignUp_Instruction.docx](#)) on **Sept 13, 2021**.

Upload 'Lab2' folder inside the 'public_html' directory of 'SiteGround' Web Hosting domain using DashBoard.

The 'File Upload' instruction will be posted on Brightspace ([Course Contents -> Module 1 -> Part 2 -> SiteGround_FileUpload_Instruction.docx](#)) on **Sept 13, 2021**.

Task 3

View your website for Lab 2 using a web browser. Open a web browser and navigate to the following web address:

`http://your_web-hosting_domain_name/Lab2/<filename>`

For example, the arbitrary URL for Lab 2 on a web hosting domain is:

rejaulc.sgedu.site/Lab2/index.html

where 'rejaulc.sgedu.site' is the name of the web hosting domain, '[Lab2](#)' is the submission folder for Lab 2, '[index.html](#)' is the source code for Lab 2.

Task 4

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

Create a word document (Lab2.doc) in which write the following Information:

- Student Number, First Name, Last Name
- The URL, or hyperlink, of your Lab 2

To hand in your lab go to Brightspace and navigate to Course Content → Labs. Then click on 'Lab 2 – Create a Novice Website' link. Upload the word document (Lab2.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.