

**Program: Mechanical Engineering**


Course Number	CCPS 530
Section Number	01
Course Title	Web Systems Development
Semester/Year	Fall 2021

Instructor	Dr. Ghassem Tofighi
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<b>Report NO.</b>	<b>1</b>
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Report Title	HTML
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Group No.	N/A
Submission Date	October 5, 2021
Due Date	October 5, 2021

Name	Student ID	Signature*
Fareed Syed	xxxx19438	

(Note: Remove the first 4 digits from your student ID)

*\*By signing above you attest that you have contributed to this submission and confirm that all work you have contributed to this submission is your own work. Any suspicion of copying or plagiarism in this work will result in an investigation of Academic Misconduct and may result in a "0" on the work, an "F" in the course, or possibly more severe penalties, as well as a Disciplinary Notice on your academic record under the Student Code of Academic Conduct, which can be found online at <http://www.ryerson.ca/senate/policies/pol60.pdf>.*

# HTML Code of LAB1

```
LAB1_Fareed_Syed.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <title>Fareed Syed Profile</title>
6   <style>
7     body {
8       font-family: SansSerif;
9       text-align: justify;
10    }
11
12    h1 {
13      color: #0080FFFF;
14    }
15
16    h2 {
17      color: #0080FFFF;
18    }
19  </style>
20 </head>
21 <body>
22   <h1>Fareed Syed</h1>
23   
25   <h2><b>About me:</b></h2>
26   <p>Thanks for stopping by!<br>
27     Problem-solving has always been a passion of mine. If it weren't for engineering, not sure what I'd be doing.
28     <br>
29     <br>
30     I am a tech-enthusiast and a fourth-year student majoring in Mechatronics Engineering and minoring in Computer
31     Science at Ryerson University in Toronto. Areas like Automation controls, Robotics, Power and Energy interest me,
32     but I'm always looking for opportunities to diversify my professional experience and expand my horizons.
33     I want to continue to use my experience working in a team-oriented environment and managing time-sensitive projects
34     to both grow myself professionally and contribute to the success of others. <br><br>
35
36     <b>Contact: </b><a href="mailto:khaja.syed@ryerson.ca"> Email</a> |
37     <a href="https://www.linkedin.com/in/fareed-syed/">LinkedIn</a>
38   </p>
39
40
41   <h2><b>Work Experience:</b></h2>
42   <ul>
43     <li><b>Systems Operation Intern - Thales Canada Transportation Solutions &emsp;&emsp;&emsp; Jan 2020 - Dec 2020</b>
44       <br></li>
45   </ul>
46   &emsp;&emsp;&emsp;&emsp;Worked with Systems Designers and Systems Engineers to analyze train characteristics and safety
47   requirements of 4LM (4 Line Modernization) projects for London Underground Limited, United Kingdom.<br><br>
48   <ul>
49     <li><b>Projects Management Assistant - Centre for Urban Energy &emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&
50       May 2020 - Dec 2020</b></li>
51   </ul>
52   &emsp;&emsp;&emsp;&emsp;Managed renewable energy research projects by performing documentation control, tracking and
53   distributing project documentation, including database management updates, documentation of RoHS standard
54   electrical equipment used in Smart Grid Lab.
55
56 </body>
57 </html>
```

# HTML Tags and Usage

The following HTML tags were used in writing the HTML code for LAB1.

1. **<!DOCTYPE>**: This was used to let the browser know what version of HTML doc is written.
2. **<html>**: This tag was used to set a container for other elements to be used in HTML documents.
3. **<head>**: This tag was used to define the head portion of the document containing info of HTML doc.
4. **<meta>**: This tag was used to set the info about the website for search engines.
5. **<body>**: This tag was used to define the main content of the HTML doc to display on the web browser.
6. **<style>**: This tag was used to set the font size and color of text on the HTML web page.
7. **<h1>**: This tag was used to set the name of the developer on the web page as Heading 1.
8. **<h2>**: This tag was used to set the profile and work experience on the web page as Heading 2.
9. **<img>**: This tag was used to set the image on the web page and edit the size of the image used.
10. **<p>**: This tag was used to create a paragraph of text in the body of the HTML code.
11. **<a>**: This tag was used to define the hyperlinks used to link from one page to another page.
12. **<b>**: This tag was used to bold the text within the tag range.
13. **<br>**: This tag was used to break the text to a new line within the paragraph of text.
14. **<ul>**: This tag was used to create an unordered list within the <h2> tag used for work experience.
15. **<li>**: This tag was used to create lists within the unordered list to specify details of work experience.

## Web Browsers Used

The web browsers used during this Lab were Google Chrome and IntelliJ IDEA built in preview web browser. When a web page is loaded, the browser first reads the HTML text and constructs a DOM Tree from it. Then it processes the CSS whether that is inline, embedded, or external CSS and constructs the CSSOM Tree from it. After these trees are constructed, then it constructs the Render-Tree from it. Different browsers use different rendering engines: Internet Explorer uses Trident, Firefox uses Gecko, Safari uses WebKit. Chrome and Opera (from version 15) use Blink, a fork of WebKit.

## Conclusion

Total time spent on this LAB was around 4-5 hours. 2 hours were dedicated to readings, researching and learning using the Module2, Module3, Stack Overflow and blog posts. An hour was spent in writing the code. Majority of the text information used was taken from developers personal LinkedIn. Another 30 minutes was spent on debugging the code to make sure the HTML web page validated for HTML5 and CSS compliance. Approximately 45 Minutes were spent on writing the report for this LAB. Over all the Lab was a successful and fun learning experience.

## References

O. Emmanuel, “How browser rendering works - behind the scenes,” *LogRocket Blog*, 30-Jul-2021. [Online]. Available: <https://blog.logrocket.com/how-browser-rendering-works-behind-scenes/>. [Accessed: 05-Oct-2021].