

COMP 2511 - Web I: Client Development

Assignment #3: Design and Implementation

✓ **Deadline: Apr. 6**

✓ **Weight: 7%**

✓ **Individual**

COMP 2511 Assignment #3: Design & Implementation

Introduction

The intent of this assignment is to build a Webpage (design & implementation) based on the knowledge that you have gained throughout this course.

You are going to build a Website (1 or multiple pages) that stands as your home page/resume, and you will make it a public page¹. You are familiar with different design concepts, accessibility requirements, and you know how to implement responsive layouts. You are going to combine all your knowledge to build your homepage. Here are some steps that can help you to complete your design and implementation.

Step 1) First, prepare the content that you want to show on your page.

- Include your education, work/volunteer experience, projects you have done and their descriptions, your achievements, courses you have taken, and your skills, hobbies, etc.
- Include a short video on your Webpage, it can be a short video that you recorded about yourself or an open-access video content that you find on the Internet (Sample code for video is provided in Media lecture slides).

Step 2) Next, think about the order and the importance of each content. You may create a prototype of your Website using tools like Figma (<https://www.figma.com/>). Figma is a free tool. You can watch online tutorials to learn how to use this tool:

- 1) <https://www.youtube.com/watch?v=3q3FV65ZrUs&t=10s>
- 2) https://www.youtube.com/watch?v=Cx2dkpBxst8&list=PLXDU_eVOJT7x7QHLSHnqIXL1Cgbxj7HIN4

Your Website can have one or multiple pages. Regardless of the number of pages, you should have a menu that helps users to navigate in your page.

Step 3) Select your colors and fonts and try them on your prototypes. When you are happy with the design of your prototypes, start your implementation.

Step 4) Resetting the default properties of HTML elements at the beginning of implementation is a common practice. Create reset.css file and reset the default properties of your HTML elements. An example of a reset.css is provided for you.

Step 5) Next, use semantic HTML elements to define the page structure and then implement your grid layouts. You can use Bootstrap or pure CSS Grid for your implementation. Initially, you can add borders around your grids to see where they are. Remember to remove the unnecessary borders at the end. Make your page to be responsive and test how your layout is changing when the screen size changes.

¹ If you do not want to have an online resume with your personal information, you can create the page using fake information, and remove the public URL after the end of the semester.

Step 6) When your grid layout works and is responsive, start adding your content and the remaining part of your design to the page. For your colors and fonts, use CSS variables to assign values. It should be possible to change the theme of your Website by changing the values of your variables.

Stage 7) When your implementation is complete, review your Website and make sure that it looks professional and it covers all the requirements.

Stage 8) Make your homepage to be public using Heroku.

Submission

- Submit your code in Blackboard.
- Include the online URL of your homepage (with Heroku) in your Blackboard submission comments.

Grading

Your assignment will be graded based on the overall quality of the website, as well as the completion of the technical requirements.

Area	Point
<ul style="list-style-type: none">• Accessibility rules are considered.• Design rules are followed and the Webpage has a professional and consistent look and feel.	15
<ul style="list-style-type: none">• Correct implementation of responsive layouts (at least one breakpoint).• Menu for navigating in the Website is available• Content of the page: personal information, video, form• Correct use of CSS variables• Correct use of reset.css file• Clean code and folder structure.	25 10 10 10 5 10
<ul style="list-style-type: none">• Creating an online page using Heroku and sharing the link in your submission comments	15