

# CSCB20, Assignment2 (HTML and CSS)

Due date 13th March @ 11:59pm

## 1 Introduction

In this assignment, you will develop a new course website for the course CSC B20 using HTML and CSS. You are not allowed to use any web framework such as Bootstrap and JQuery etc. You must work in groups of two. We did make some exceptions for Assignment1, and however, for this assignment, we ask you to form teams of 2. The webpage must be usable, responsive, and visually appealing. Below is an example course page, however it is up to you to create a design following the mandates listed in this assignment. I want you to have some fun with this assignment. There are some minimum requirements, but for the most part, there is a lot of creativity! Think about what an ideal course website should look like? How should the user experience be like? What are the relevant contents that must be shown to the visitor of the website? What should the look and feel of the website be? Does my website work on mobile phones? How should the CSS/HTML change to accommodate different mobile devices? etc. etc. Here are some course websites that you can look at to get some ideas

- <http://www.cs.toronto.edu/~ahchinaei/teaching/20165/csc148/>
- <https://www.teach.cs.toronto.edu/~csc148h/winter/>
- <http://www.utoronto.ca/~bretscher/b20/>
- <http://www.cs.toronto.edu/~mashiyat/csc309/>

The course webpage that you create, **MUST** have content (i.e., name of instructor, course information, and course syllabus) similar to this course website of CSCB20 i.e., <http://www.utoronto.ca/~bretscher/b20/>, however it your job to redesign and improve the look and functionality of the page, as well as making it responsive. Your project will be marked based on the following criteria:

## 2 What is expected on your website at the very minimum?

1. All content and data on <http://www.utoronto.ca/~bretscher/b20/> must be reflected in your website.
2. Links to the following must be included: Piazza, Markus, Assignments, Anon Feedback, Syllabus, Labs, Course Team, and Home. You can create a simple dummy pdf/ or a powerpoint file. And have this same file linked to any lecture material or course-related material on your website. For example, instead of 12 pdf or 12 ppt files for each of the 12 weeks on your course website, you can create one sample pdf or ppt file and have 12 different links on your course website refer to this single pdf or ppt. Make sure to have some meaningful name on the links by referring to the aforementioned CSCB20 website. Do not have external links referring to the aforementioned CSCB20 website.
3. Links should react to mouse hovers and clicks (Apply some style!)
4. Header must visibly stick to the top of the page as the user navigates the page
5. Footer is required:
  - Must stick to the bottom of the webpage, should not be visible until the user reaches the bottom of the page
  - Must contain a link to the Faculty of Computer Science at UofT
  - Must contain a blurb about who created the website (Site design by John Doe)

6. All navigation links should direct the user to the appropriate panel and sections of the panels.
7. Page should be responsive and adapt to tablet and mobile views
8. Use of sections and white space should be used to delimit content areas (e.g., Assignment section should be different than Syllabus section)
9. Your HTML and CSS code should be readable and maintainable.
10. You must have all your CSS on a separate .css file and have it referenced inside an HTML file by using the `<link>` attribute inside the header portion of the HTML file.

### 3 Requirements

- Before starting to code in HTML and CSS, you are required first to generate some basic mockups of your website. These mockups will show how the user will interact with your website.
  - Each mock-up will refer to a single user story. Following are some user stories that may help you in generating mockups for your website:
    1. “As a student user, the student must be able to see all the lecture slides when clicking on the ‘lectures’ button/link.”
    2. “As a student user, the student must be able to see all the Office Hours for this week on Google Calendar or Google Maps (maybe you want to show where these office hours are happening?), when clicking on the ‘Office Hours’ button/link.”
    3. “As a student user, when I click on the lab’s page on the CSCB20 website, a grid layout of all the labs must be shown with information of all the TA.”
    4. .
    5. .
- Each group, may have any number of user stories. But you should have at least 10 user stories. For each user story, you should mock up what the web page should look like. You can generate your mockup using many online free tools. Just choose anyone. One of them happens to be this <https://gomockingbird.com/home>
- Make sure each mock-up is saved as a PNG file. And that there is a direct mapping between the mock-up and the user stories.
- Complete this assignment using exclusively only HTML and CSS. You have to use table-less design (no `table` element is allowed).
- You cannot use any predefined or 3rd party CSS framework or an HTML template. Everything should be written in HTML and CSS in scratch and by you.
- The main entry page for your site should be called `index.html`. Your CSS styles must be saved separately inside its CSS file. For example, the style of `index.html` must be inside `index.css`.
- This is optional right now, but I like you to think about and if possible have your course webpage work well with mobile devices.

### 4 Deliverable

Your assignment should be submitted as a tar (assignment2.tar) file on Markus. When we untar your tar file, it should contain a single directory called ‘Assignment2’ which in turn contains the following:

- A directory called **MockUpAndUserStories**: This directory will contain two sets of items i.e. 1) MockUp and 2) UserStories. Your Mockup png should be named as ‘mockup1.png’, ‘mockup2.png’, etc etc. Your user stories should be named as ‘userstory1.txt’, ‘userstory2.txt’ etc. The ‘userstoryX.txt’ must correspond with the file ‘mockupX.png’ where X is any number.

- A directory called **src**: In this directory, you will place all your HTML and CSS files. One of your .html files must be called index.html that we will open in Google Chrome browser to mark your assignment. Your 'index.html' will be the starting point of your entire CSCB20 webpage. Each HTML file that you create must have a corresponding CSS file. All your HTML and CSS must reside in this directory. If your page makes use of any images or other resources, make appropriate subdirectories inside 'src' and have your HTML and CSS reference them.
- A file called **HonorCode.txt**: You can reuse the honor code from your previous assignment. Again, make sure that this includes yours, and your partner's information.
- A file called **Report.pdf**. In this report (1-2 pages) you must try and answer these questions:
  - What issues and problem did you notice with some of the previous websites?
  - How did you address these issues in your redesigned course website?
  - What are some challenges that you and your team member faced? How did you go about addressing these challenges?
- You can read more about CSS floats here. I recommend using this for layouts on your page. <https://internetingishard.com/html-and-css/floats/>
- This is another great link for understanding how Float works in general. <https://www.hongkiat.com/blog/css-floats/>.
- This is an online sandbox, for you to try some basic ideas and see how they work out. <https://codepen.io/rpsthecoder/pen/jbVKjx>
- To create HTML wireframe mockup, you can use this link <https://gomockingbird.com/home>