

The University of Saskatchewan
Saskatoon, Canada
Department of Computer Science
CMPT 281– Website Design and Development

Assignment 2
The Final(s) Countdown

Date Due: November 3, 2024, 11:59pm

Total Marks: 45

General Instructions

- Assignments must be submitted using Canvas.
- The assignment should be submitted in a single .zip file, including all required files (see submission requirements below)

Question 1 (45 points):

Brief

For this assignment, your task is to create a webpage that displays a countdown timer. The countdown timer should display the days, hours, minutes, and seconds until the beginning of the CMPT 281 Final Exam. You will need to use HTML, CSS, and JavaScript to develop this project.

Requirements

"The Client" would like you to meet a number of requirements for this project.

- You are required to use CSS Animations to visually embellish the countdown timer (this can be as subtle or over the top as you'd like).
- You are required to display at least one image in your webpage. You should submit this image file as part of your submission materials.
- Your HTML, CSS, and JavaScript should adhere to best practices outlined in the course materials.
- You must specify a background beyond the browser's default (this can be either a colour, or an image).
- You should use Flexbox to lay out the seconds, minutes, hours, and days.
- Client requirement gathering is often part of the job for a web developer. You should accurately determine the date and time for the CMPT 281 final exam.
- While the intended output of this assessment could be achieved through JavaScript plugins such as Vue, React, and jQuery, these should not be used for this assessment. There is a pedagogical rationale for why we want you to demonstrate the basics.
- Your HTML, CSS, and JavaScript files should each include at least one inline comment. All JavaScript functions should be commented.
- Your implementation should also design around non-explicit client requirements. For example: what if someone from outside Saskatchewan uses the website - will it accurately display how long until finals begin? What happens when the countdown reaches zero?

Output Example



Marking Scheme

HTML

5 marks : Correct structure of HTML

CSS

5 marks : Effective use of CSS animations

2 marks : Customized background

5 marks : Effective use of Flexbox for layout

JavaScript

10 marks : Correct use of plain javascript (not relying on external plugins)

3 marks : functions commented effectively

Other

5 marks : Adherence to best practices as discussed in class

2 marks : At least one image displayed somewhere on the webpage

5 marks : Webpage displays the correct countdown

3 marks : Effective use of inline comments

Files Provided

There are no files provided for this assignment.

What to Hand In

You must submit the following files in a zip file called abc123-a2.zip (replace abc123 with your NSID):

index.html

styles.css

countdown.js

At least one image that is being used in your webpage

Grading Rubric

The grading rubric can be found on Canvas.