

Assignment 4: Web Components

Marks: 8 or 10

Format: Upload zipped folder containing all files to BlackBoard.

BE SURE TO PUT YOUR NAME IN THE FILENAME: e.g. Assign4-YourName.zip

Purpose: To review the creation of custom web components and the module design pattern.

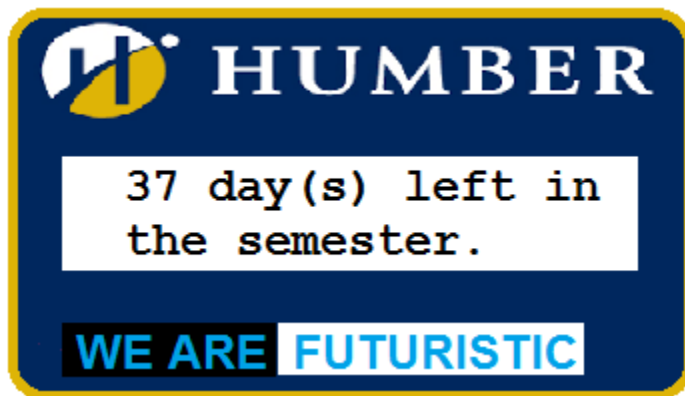
SELECT ONE OF THE FOLLOWING TWO OPTIONS...

Option 1 is worth a maximum of 8 marks; Option 2 is worth a maximum of 10 marks.

OPTION 1: Create a Humber Countdown component (worth max 8 marks).

REQUIREMENTS: Using the provided code...

1. Create a template to match the provided specifications (see the following image and Additional Specifications at the end of this document).

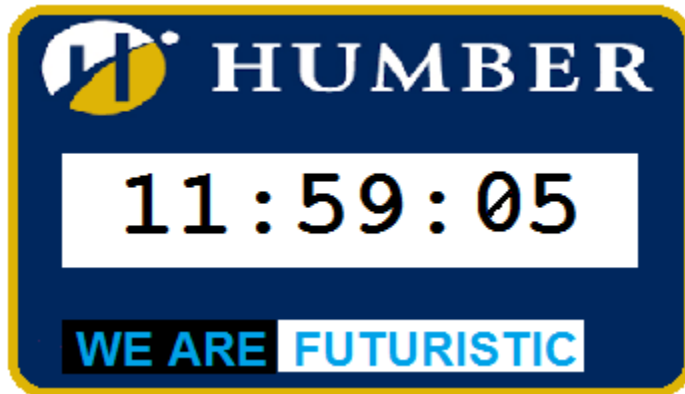


2. The template should display “**XX** day(s) left in the semester.”, where **XX** is the number of days until April 17, 2020 17:00.
3. The custom element will be called `<humber-countdown>`.
4. The `<template>` will be in the included HTML document.

OPTION 2: Create a Humber Clock web component (worth max 10 marks).

REQUIREMENTS: Using the provided code...

1. Create a template to match the provided specifications (see the following image and Additional Specifications at the end of this document).



2. The template will display the current time updated every second.
Note: “:05” in the image is not “5”.
3. The custom element will be called `<humber-clock>`.
4. The `<template>` will be in the included HTML document.

Additional Specifications for Both Options

- `<template>` should be attached to the Shadow DOM
- Your module functionality will be in a dedicated module file, and your main application (web page) logic will be in a separate file.
- The Humber logo is included in the assignment folder
- Grab blue & gold colours from the Humber logo
- Black is black, white is white, light blue is #00A2E8
- width: 350px height: 200px
- Use your custom element on the included web page to implement it (component should appear at the top right, 20px in from the right and 20px down from the top; and should always be there, even if the user scrolls)
- **BE SURE TO READ THE BLACKBOARD RUBRIC BEFORE YOU START**