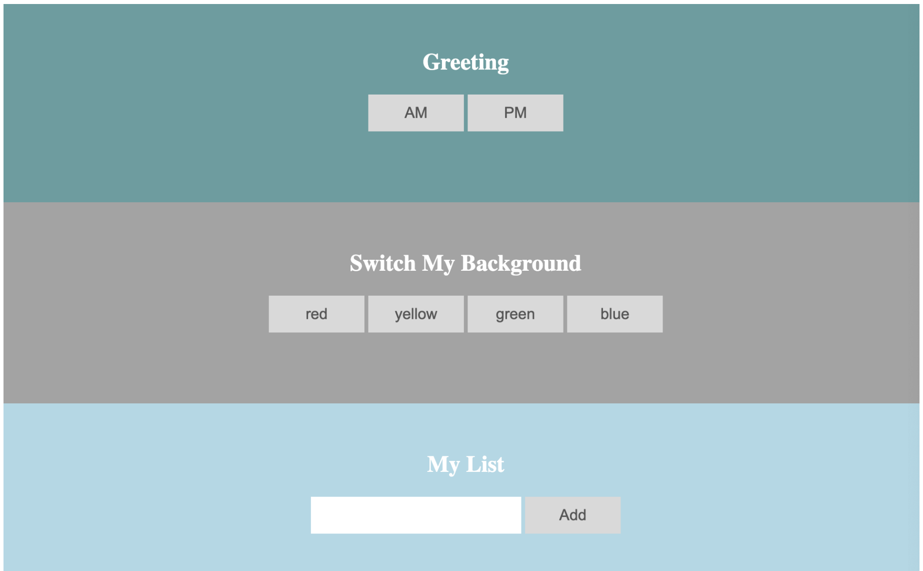
JavaScript Project 2
DOM Manipulation
Individual Assignment

Setup

Download the provided template files which include dom_proj.html, style.css and dom_js.js files. Dom_proj.html and style.css are complete. You will provide the javascript in the dom_js.js file.

This assignment has 3 parts: a greeting, a color switch, and a dynamic list. Each part is enclosed in a div of the provided index.html file. This is the page on initial load in the browser:



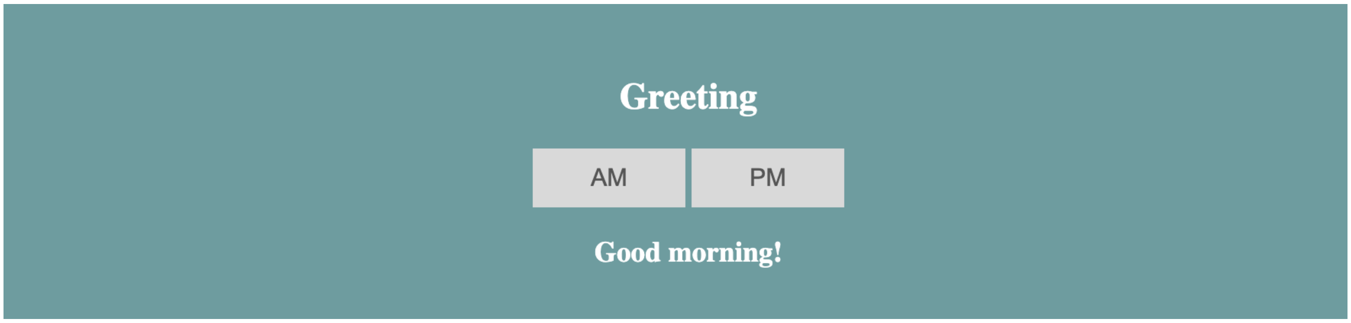
Part 1: Greeting: Click Events Exercise (20 pts)

In the first div of the html (div_greet), you have two buttons, each with an id: 'am' and 'pm'. You also have an empty heading with id: ‘greeting’. The heading node is provided.

Create a variable for each button. (3 pts.)
Create a listener with addEventListener to invoke a callback on the click of each button. (5 pts.)
In the callback add appropriate text content to the heading node (`#greeting`). (10 pts.)

- When the am button is clicked, you should display “Good morning” or similar in the heading.
- When the pm button is clicked, you should display "Good night" or similar in the heading.

The screenshot below shows the result of clicking the am button.



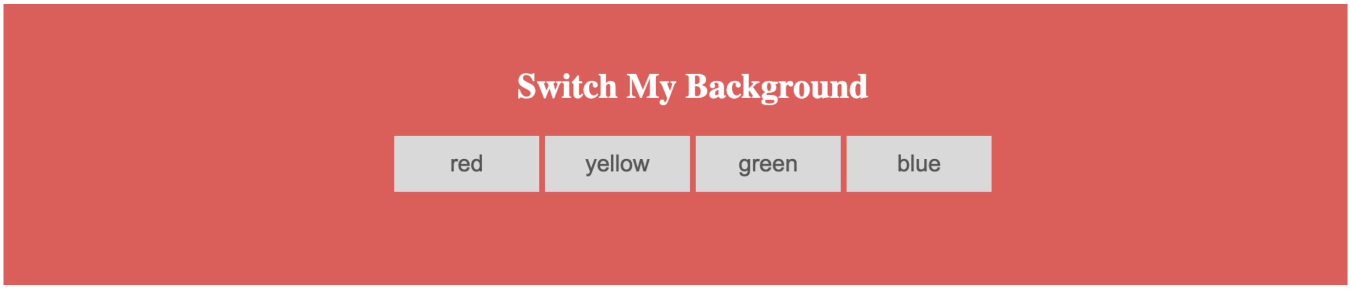
Good morning!

Part 2: Switch the Background Color (25 pts)

In the second div of the html (`div_color`), you have four buttons, each with an id: 'red', 'yellow', 'green' and 'blue'. You also have four classes in the css: bg_red, bg_yellow, bg_green, and bg_blue. The buttons and classes are provided. You will provide the javascript to switch the color of the div on the click of the button.

Create variables for each button. (4 pts.)
Add event listeners for the buttons with `addEventListener` which invoke a callback on click of each button. (10 pts)
In the callback, set the class attribute of the containing div (`div_color`) to the appropriate color in the callback function. Use `setAttribute` to set the class attribute. (11 pts.)

For example, on click or the red button, the background of the div changes:



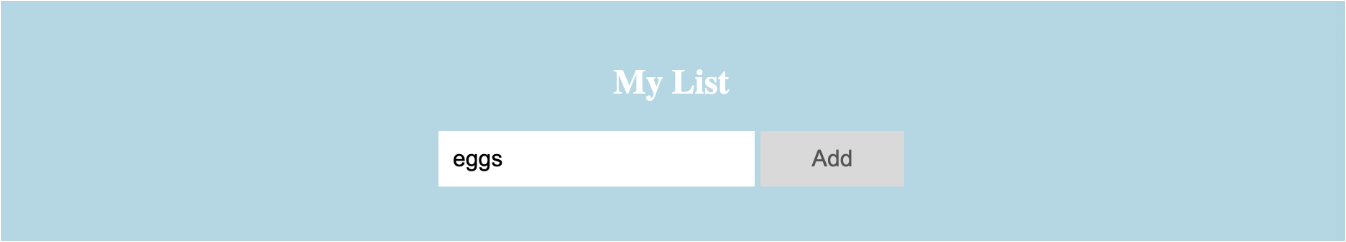
Part 3: Create a dynamic list (55 pts)

In the third div of the html (`div_list`), you have an input box, a button and an empty unordered list. You are to add items to the list by taking the text entered into the input box when the button is clicked and inserting it along with a delete button into the list.

- Use `querySelector` and the id's of the elements to create 3 variables for the input box (`#usrInput`), button(`#addBtn`) and list (`#myUL`). (9 pts.)
- Use `addEventListener` to invoke a callback on the click of the button. (9 pts.)
- In the callback, get the user input from the `.value` property of the input box then clear the input box by setting the `.value` to an empty string (' '). (9 pts.)
- Create the list item node and set the text of the list item to the user input. (9 pts.)
- Create a button element and set it textContent to 'Delete'. (3pts.)
- Append the button to the list item. (3pts.)
- Append the new list item node to the unordered list. (3pts.)

- Create an event listener with addEventListener() to remove the new list item when the delete button is clicked. (10 pts.)

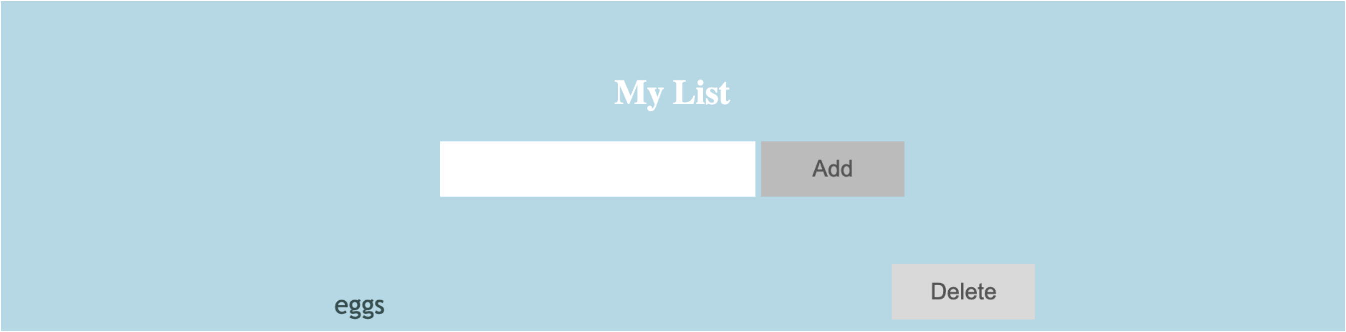
Here's an example. The user enters 'eggs' in the text box ....



My List

eggs

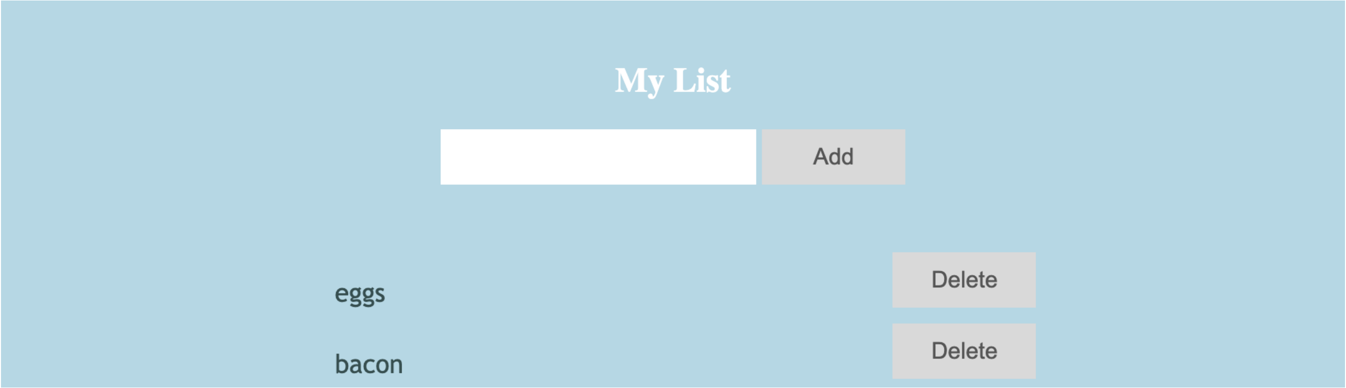
Then clicks the add button which invokes the callback to add the item to the unordered list:



My List

eggs

After adding another user input:

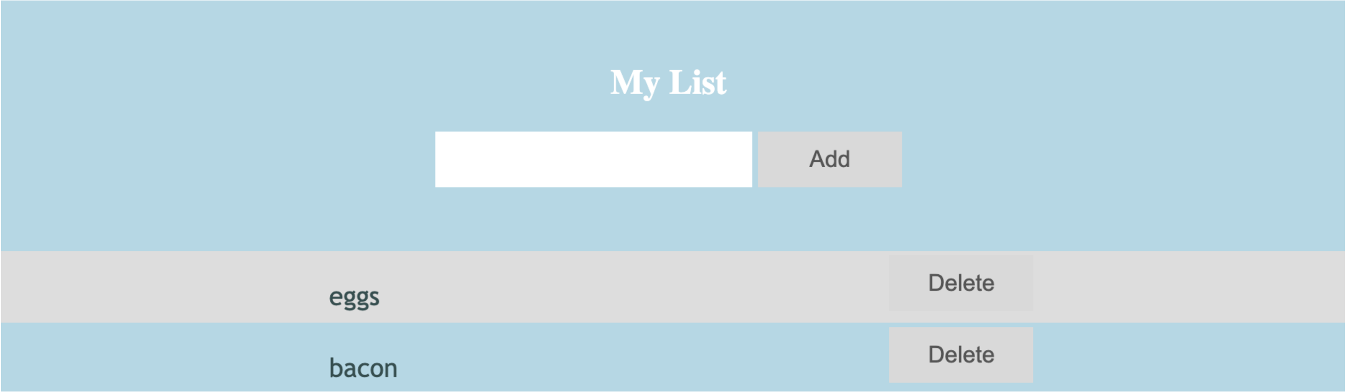


My List

eggs

bacon

Deleting an item:

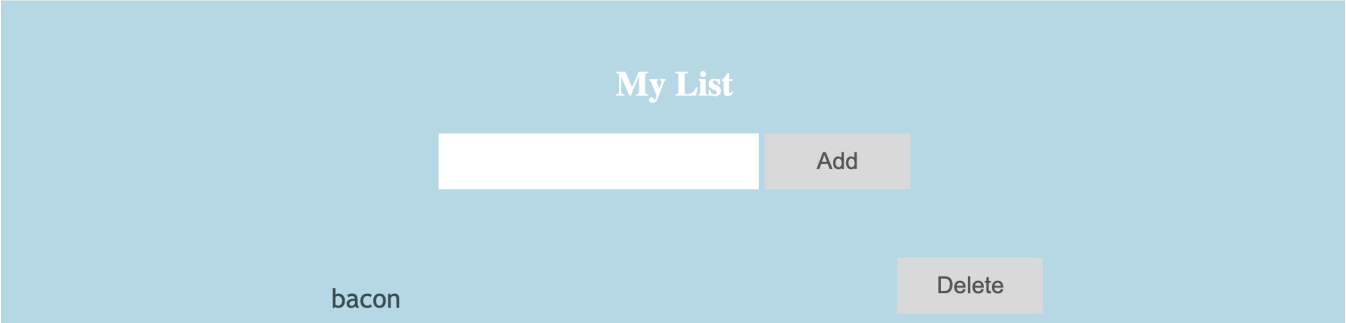


My List

eggs

bacon

Item removed from list after delete:



Submission

Zip your completed project folder as js_proj2.js and submit it to the dropbox on eLC.