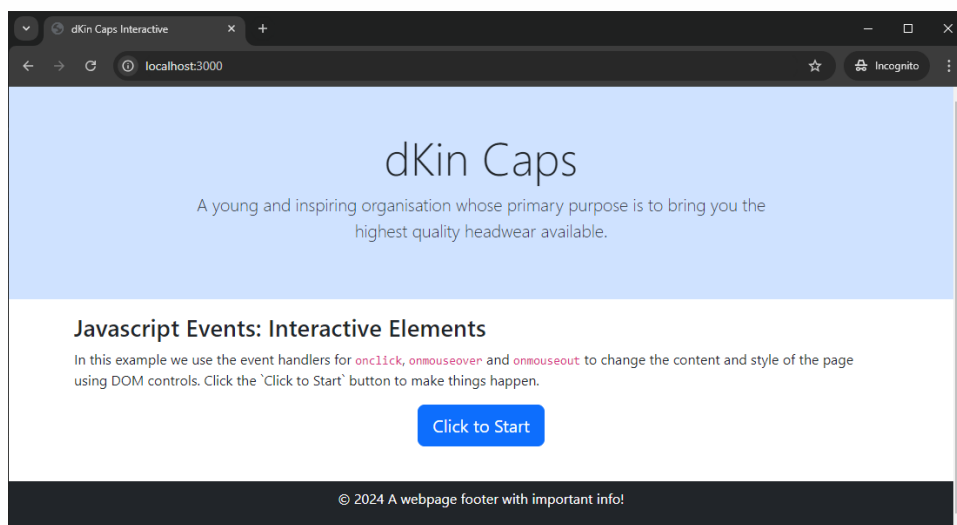


7.2P: Event Handler and Dynamic Page Tasks

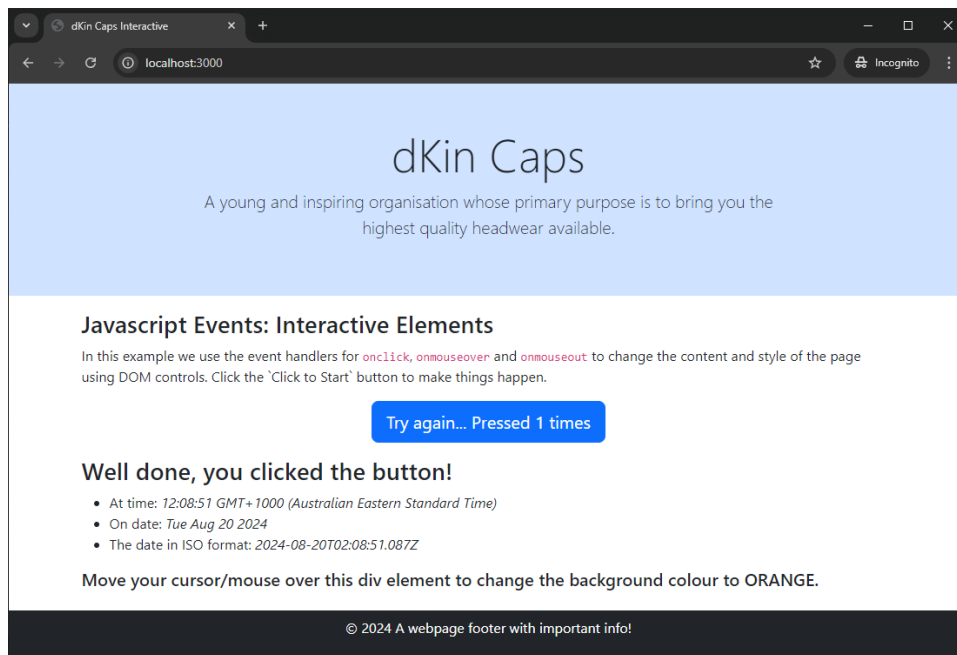
You are required to complete the following tasks using *JavaScript*:

1. Create a webpage that has some welcoming text and include **both** a button and an empty div element below the button (give each of these elements a unique identifier `id` so you can access these later). Your initial page should look similar to that shown below:



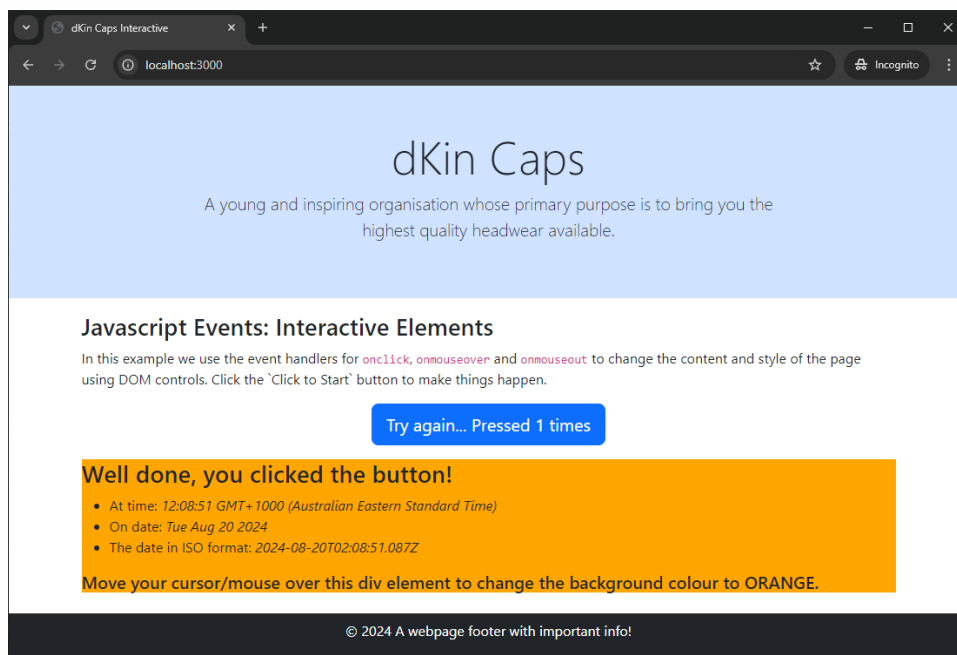
Task7.2.1 Initial Webpage With Button

2. Add an `onClick` event handler to your button object that when clicked modifies the content of your page, including the div element to display a message containing:
 - The **current time of day** when the button was clicked
 - The **current date** (in short-form) when the button was clicked



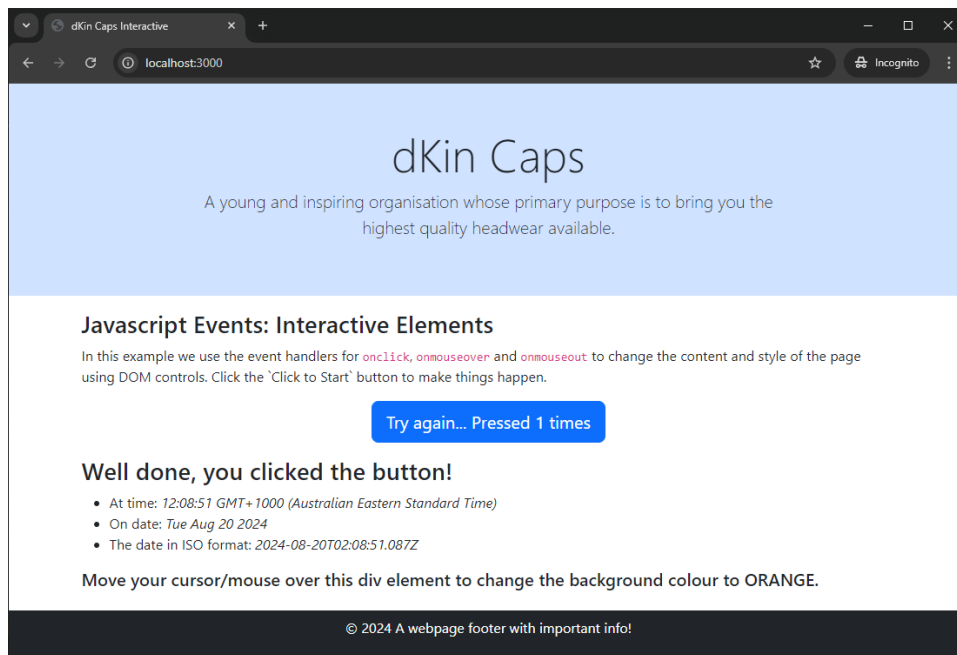
Task7.2.1 Welcome, time and date

3. Implement the `onmouseover` event handler for the `div` element to change the style of the message (background colour to orange).



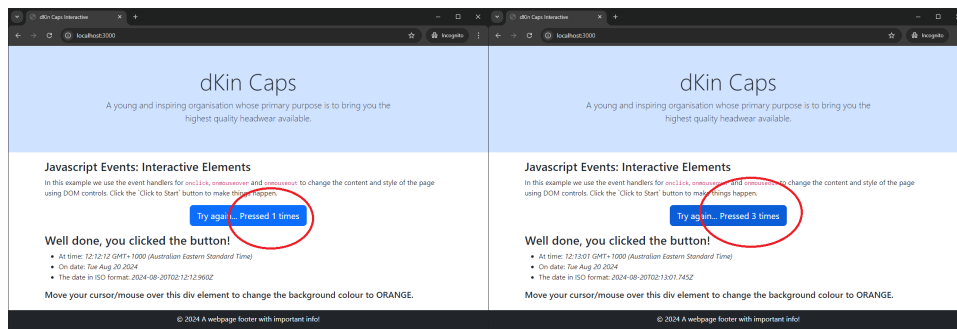
Task7.2.3 Mouseover event (entering region)

4. Implement `onmouseout` effects to change the style of a paragraph back to its original background colour.



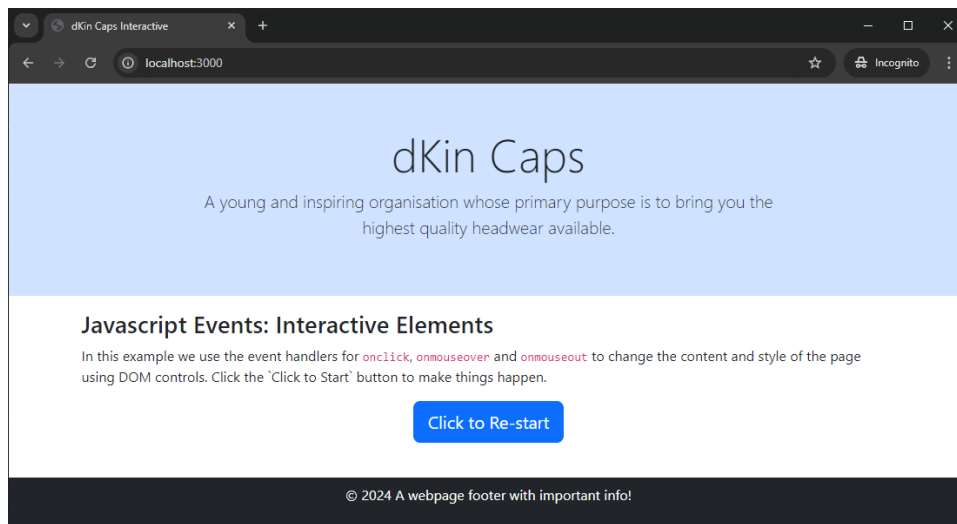
Task7.2.4 Mouseout event (leaving region)

5. Extend your `onClick` event handler to also change the text within the button using a counter to say how many times the button has been clicked:



Task7.2.5 Mouseover event (leaving region)

6. When the button has been clicked more than **3** times, set the `display` style of the div to `none` (making it disappear) and update the button text. Reset the counter and on further clicks (up to 5) set the `display` style of the div to `block` to make the content shown again:



Task7.2.6 Page afer 6 button clicks

Hints

- Review the various methods/functions available to work with *JavaScript Date Objects*:
 - https://www.w3schools.com/js/js_dates.asp
 - https://www.w3schools.com/js/js_date_methods.asp
- Review the various methods/functions available to work with *JavaScript Events*:
 - https://www.w3schools.com/js/js_events.asp
- In the screenshots, the larger Bootstrap button is used and is centred using `mx-auto` class attribute, as shown in the code snippet below:

```
<div class="d-grid gap-2 col-6 mx-auto">  
  <input class="btn btn-primary btn-lg mb-3 mx-auto" type="button" id="btn-start"  
    value="Click to Start">  
</div>
```

- Making an DOM element hidden or visible can be done through the `display` style attribute:

```
let outputDiv = document.getElementById("output");  
  
outputDiv.style.display = "none"; // Hide the div element  
...  
outputDiv.style.display = "block"; // Show the div element
```

What will you submit?

You should submit:

- HTML file with javascript code.
- Screen-shot of the web page showing the output for Step 1.
- Screen-shot of the web page showing the output for Step 2.

- Screen-shot of the web page showing the output for Step 5 (on 3rd click of button)
- Screen-shot of the web page showing the output for Step 6 (after 4th click of button)