

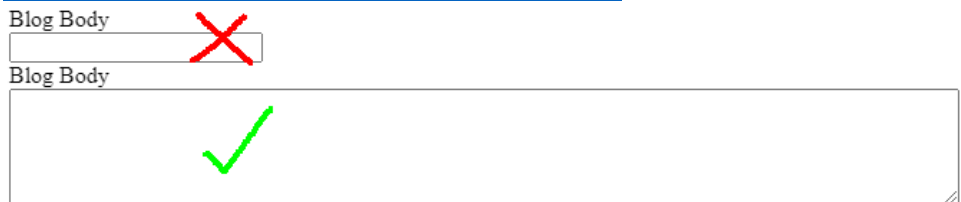
## WEEK 7: HLT (JAVASCRIPT SYNTAX PART 2)

4 hours

### Task 1: An Interactive Website

This task will blend a mixture of your own knowledge and further knowledge topics that you will need to investigate and practice to understand before being able to successfully implement. All topics discussed below that are new to you will have some form of supporting material for you to read.

Your task is to create an interactive blog website. You have as much creative freedom as you like on this, but you will need to meet the minimum requirements of:

- An option for toggling between a light theme and a dark theme (guidance can be found on this week's PowerPoint presentation).
- The blog page should have at least 1 blog post already made (within the HTML). This can be on any topic you like.
- A form that:
  - o Will expect 3 fields:
    - Title of the blog
    - Author (the name of the person writing the blog post)
    - Body of the blog (the actual content to write)
      - You will need to format this field so that it isn't just a default size. This will need to be larger than the typical entry:  
[https://www.w3schools.com/tags/tag\\_textarea.asp](https://www.w3schools.com/tags/tag_textarea.asp)  

  - o When the user submits the form, it should check if all fields are complete, and if they are, it should add all 3 field's data to the webpage below the content that already. This can be achieved by using the document.createElement() method:  
[https://www.w3schools.com/jsref/met\\_document\\_createelement.asp](https://www.w3schools.com/jsref/met_document_createelement.asp)
  - o Ensure that all 3 fields being added have relevant tag types:
    - Title – <h1>
    - Author – <h3>
    - Body – <p>
- A contact page which also has a form that:
  - o Will expect 2 fields:
    - Subject of an email
    - Body of an email
  - o Check whether all fields are complete, and if they are, open a mail client with all the information that was in the form pre-populated on the email (This will need to be a link NOT a button!):  
[https://www.w3schools.com/html/tryit.asp?filename=tryhtml\\_links\\_mailto\\_subject](https://www.w3schools.com/html/tryit.asp?filename=tryhtml_links_mailto_subject)
- A navigation bar that will allow the user to move between the blog and contact page:  
[https://www.w3schools.com/howto/howto\\_js\\_topnav.asp](https://www.w3schools.com/howto/howto_js_topnav.asp)

**STRETCH CHALLENGE:** Update the above task so that when you add a new blog post it will save the data to a file as well as add content to the webpage. When the page loads for the first time ( <body onload="myFunction()" ) it should read this file and add all blog posts to the webpage.

This is a tricky stretch challenge as you will need to do complete research on how to read and write files with JavaScript.

There are a few ways to go about this, a lot of which are covered on this Stack Overflow post:

- <https://stackoverflow.com/questions/14446447/how-to-read-a-local-text-file>

Please note, that JavaScript wasn't designed to read and write files from a browser for security reasons, but it can be forced to do so.

## WEEK 7: HLT (JAVASCRIPT SYNTAX PART 2)

### Marking Criteria Task 1

	Pass	Merit	Distinction
<b>Syntax</b>	<ul style="list-style-type: none"> <li>Attempts to use HTML, CSS, and JS syntax with some success</li> </ul>	<ul style="list-style-type: none"> <li>HTML, CSS, and JS syntax is largely accurate with some errors</li> </ul>	<ul style="list-style-type: none"> <li>HTML, CSS, and JS syntax is consistently accurate and appropriate to the task</li> </ul>
<b>Presentation</b>	<ul style="list-style-type: none"> <li>Some whitespace used to good effect</li> <li>Indentation attempted but inaccurate</li> <li>Correct HTML, CSS, and JS naming convention</li> </ul>	<ul style="list-style-type: none"> <li>Whitespace used appropriately, at times</li> <li>Indentation largely accurate</li> <li>Some comments</li> </ul>	<ul style="list-style-type: none"> <li>Clear commentary provided throughout</li> <li>Code is explicitly clean and easy to read</li> </ul>

### Marking criteria Task 1

	Pass	Merit	Distinction
<b>Code</b>	<ul style="list-style-type: none"> <li>Has a contact page and a blog page with no navigation bar.</li> <li>Has relevant forms with no additional formatting.</li> <li>Attempted using createElement</li> <li>Attempted using mailto</li> </ul>	<ul style="list-style-type: none"> <li>Has a contact page and a blog page with a navigation bar</li> <li>Has successfully implemented createElement when blog form is submitted OR has successfully implemented mailto passing all fields to an email client when.</li> <li>Has attempted implementing a theme switcher</li> </ul>	<ul style="list-style-type: none"> <li>Has a contact page and a blog page with a navigation bar</li> <li>Has successfully implement both createElement on the blog form and mailto on the contact form</li> <li>Has successfully implemented a theme switcher</li> </ul>