Coursework 3

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**Source repository**: <https://github.com/mmmarkyb/int-elligence>

**Published website**: <https://mmmarkyb.github.io/int-elligence/>

# Process

**High fidelity designs**

For the design of the website we used colours to the minimum so that there was maximum contrast. Instead of using very bold saturated colours we used a less saturated green. This was so that the black or white text on top would have a stronger contrast and therefore would be easier for the user to read. In addition, green was a more suitable colour for our website as it is particularly calming and relaxing which would make the user feel at ease when learning code. Green also represents growth such as in nature which would reflect the user’s growth in knowledge and learning journey.

In terms of the typography, we chose sans serif instead of serif for several reasons. Firstly, it is said that sans serif has simplified letterforms which is better for readers especially those who are young or have certain visual impairments. In addition, this typeface lacks strokes at the ends of letters which makes the font more simplistic and clean. This aids in our tone of our minimal website as it appears more direct and precise.

Generated site structure

Delegated different pages

* Coded html for the main page, then did the CSS
* Added fancy JS later

Accessibility

* Alt tags
* Title tags

Validation of code

# Technical Aspects

To make our site more usable and interactive we’ve used a variation of technical components such as; JavaScript, CSS and Bootstrap.

We have used JavaScript to implement the scrolling navigation animation, which changes the background opacity based on the yScroll position. This is a simple function which has an event listener which responds to the scroll event and the calculates the position of the DOM within the browser window and uses that value as an input for the alpha.

Int elligence; also used JavaScript in other places including the testimonial and course syllabus sections to hide or show the contents of an element by changing the display or height property.

We wanted to implement a scroll.To functions for buttons such as “go to top” on the courseLib.html page to smoothly transition to a specified element. Due to time constraints, we omitted this feature.

Int elligence; also uses a great deal of CSS3 specific features such as @media queries to modify the layout and element properties whilst the DOM’s properties match a certain criterion. As the majority of elements are anchored to their parent element using percentage values, responsive design is easily achieved by manipulating the width value of that parent (in our case width: calc(100% - 32px);) .

Throughout our CSS have a used many different selectors, one common occurrence is the :hover pseudo selector, this is used in all of our buttons to identify interactivity. Other less obvious selectors and combinators we have used include;

* “>” Child (to isolate a particular element)
* “+” Adjacent sibling (selects the adjacent element of a specified sibling)
* ::after ( creates a pseudo-element after the selected element)

The login modal and contact form were rather large and slightly more complex features we wanted to include but felt that we couldn’t write all the code required to achieve this ourselves. These are the only instances where we sourced code from a 3rd party - Bootstrap.

# Overall Summary

## Fit to design and requirements

How does your website fit to the requirements and the design identified in Deliverable 2?

## Design and Usability

How does your website look and perform, does it appeal to the target market, is it easy to navigate and understand, does it load quickly, does it use images appropriately and make use of title attributes and alt text etc.? How do you inform the users about how you process the forms and input provided by them?

## Well-structured and validated HTML and CSS

Int elligence; code has been structured in a way that makes it easy to read and understand with appropriate indentation that contributes to its legibility. The meta tags that we have included is the viewport tag , which changes the browser width to match the device (this is essential for a truly responsive design), and the description meta tag. Other common meta tags such as keywords etc. have been omitted from our code as they are deemed obsolete from most search engines.

We use sematic mark-up throughout the HTML to better identify the elements of the page and create a better context for search engines, these include but are not limited to:

* title tags
* h1, h2 and h3
* p
* a
* section
* nav
* header
* footer

All of our HTML and CSS validate through the W3C validation service; however some errors do still occur as the included bootstrap CSS does have several errors and warning of which we cannot edit. Int elligence has a single CSS file titled main.css, we chose to have one file as this make the users experience more fluid, 1 file equates to 1 download.

As mentioned earlier the only place we sourced code from is the login and contact bootstrap **(reference here plz).** We did this as we felt that it would be unrealistic to write the required functions and styles in the time given. These features also need to be reliable and provide a smooth experience of which Bootstrap provided with little effort.

## Organisation and site structure

Have you organised and named all your files in an appropriate manner, made use of the title tag and have you commented your code appropriately so it is easy to see what is happening in your code for other developers?

## Contribution

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| --- | --- | --- | --- | --- |
|  | Mark | Vincey | Karla | Nimah |
| Mark | 45 | 45 | 10 | 0 |
| Vincey | 45 | 45 | 10 | 0 |
| Karla | 42 | 42 | 13 | 3 |
| Nimah |  |  |  |  |