

Web Design and Development

Benefit of Education Website Report

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BACHELOR OF SCIENCE (HONOURS) IN COMPUTING

MARTIN OLARU

X24528929

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# Rough Plan

* ***Set up GitHub and make first commit***
* Create link for infinityFree
* ***Build website and have 4 pages that link with working nav bar***
* Wireframes for desktop and mobile (8 total)
* Video demonstration
* How I optimized images
* HTML validation ( before and after screenshots )
* Google page speeds ( before and after screenshots )
* Link to video demonstration (yt)
* Discuss understanding of “structured, maintainable and accessible web” and how I did this in the project

**Website plan**

* ***Landing page with 3 other pages ( home, about, gallery, contact and further reading )***
* ***Gallery with 4 images***
* ***Form with 5 fields*** ***and JS for validation***
* ***Mini Game***
* ***DOM each page*** (***click text to reveal more, onmouse over to find about more about image***, ***click authors name to find recommended reading***,
* ***Responsive, link to each site working on nav bar***

# Project Report

I started the project off by making a rough plan on what the project requires and a rough plan for the website as well just to make sure I knew what I had to include. Shortly afterwards I created a sitemap so I could have a rough idea on how my website would look. After the sitemap I created a wireframe for each page so I could design how I envisioned each page to look.

I continued by revising the slides that we had from our module on Moodle and practising a few of the older examples. Once I brushed the cobwebs off, I began by building the index page. My first plan was to make a functional home page with bootstrap and then to create a navigation bar. After that was implemented, I looked to create the other 3 pages and make sure they could all be accessed through the navigation bar and that they would all link to each other. Once created I made my first commit on GitHub.

Next, I looked to start adding content to the page, as soon as that was added I used JavaScript to manipulate the DOM on the home and contact page. On the home page I added buttons that once clicked it would change the text. On the contact page I added authors of famous books and once you click their name it changes the text to one of their titles. I also added a form with 5 fields and then used JavaScript for validation. This was my second commit on GitHub.

While I had a good portion of the website done, I still had to make a mini game and manipulate the DOM on the last 2 pages. On the home page I created a mini game using randomisation where you must guess the number that the site randomly generates. Afterwards I added a mouse over event on the gallery page, changing the image to a different image once you brought the mouse over and then reverting to the original image once the mouse exited the element. On the about page I added an image that once clicked to change into a body of text and then I also added a button that links directly to the contact page. This was my third commit on GitHub.

The website was done; I had every feature I needed so now I just had to add the remaining content such as the right pictures and text. I proceeded with styling the website using CSS, just slight changes in text colour and changing the background colour of each section. I also changed the colour of the buttons on each page and added a white border to make it look sleeker.

**Image Optimization**

# Week 3

# Week 4