**WEB PROJECT: CODING FINAL REPORT**

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Github Repo Url: [View In Github](https://github.com/Birkbeck2/canary-web-project-olootu)

Online Live Url: [View On Gihub Pages](https://curly-barnacle-nr9n5ov.pages.github.io/)

**Introduction**

As the final submission on my Web Project Course (module). I have been tasked to create a Portfolio website that incorporates all the learnings I have had during the course. This includes HTML, CSS, JavaScript and Visual Design. Focus will be more on JavaScript, DOM interactivities and Visual Design, these being the main focus of this module.

This report is a detailed analyses of my decision-making process in the design and development of a professional portfolio website. I will give references to books/literatures/videos that I have read/viewed or inspired my decisions.

**The Portfolio Website**

The portfolio website will be based on a fictious website called: Charitable.

**My Projected Users:**

The website will cater for diverse users who are interested in charity or volunteer works, this includes users with disabilities. The website will follow the Web Content Accessibility Guidelines (WCAG) 2.2. ([W3C Recommendation)](https://www.w3.org/TR/WCAG22/).

**Inspiration And Ideas**

I draw my inspiration from similar websites such as the Save The Children (<https://www.savethechildren.org.uk/>).

**Pages & Links**

The fictious website will be a simple four-page website:

* Home
* Projects
* Register
* Contact.

**Design Principles**

For the design, I will be taking a mock-up from a [Figma design prototype](https://www.figma.com/proto/Cj6oze7nzgBA0xy85LIKBl/Charitable?page-id=0%3A1&node-id=160-3&viewport=174%2C-169%2C0.25&t=LH0Zj2MscPfw4S7a-1&scaling=contain&content-scaling=fixed&starting-point-node-id=160%3A3) that I have already prepared. The mock-up will be the starting point and will be improved upon. The website will be simple and easy to navigate. The colour scheme choice and colour contrast will meet the required specifications for people with visual impairment. I will aim to use the following as my guide:

* Accessibility
* Typography
* Grid & Layout
* Colour & Contrast
* Good use of Image

**Typography & Family Tree**

I have chosen to use diverse fonts typefaces to form a typography family tree that is aesthetically pleasing.

**Imprima**

Designed by [Eduardo Tunni](https://fonts.google.com/?query=Eduardo%20Tunni) (Google Fonts, 2025), I will use this typeface for the top navigation links. I chose this font because it is bold, legible and very pleasing to the eyes. It has also a very good letter-spacing for good readability.

**Roboto Fonts**  
For the body texts and other part of the website, I will use the Roboto fonts typeface. It is a good complimentary font typeface to the Imprima fonts described above. I chose the Roboto fonts because of the good reviews I read about it.

It was described by Google Fonts as “… typeface family designed to create a frictionless reading experience at any size, optical size, in any format.” (Google Fonts, 2025).

**Readability & Font Sizes**

For usability and accessibility, I have chosen the ***rem*** font value unit instead of a fixed pixel unit (px). Rem unit allows users to increase or decrease the font sizes without affecting the page layout, this is especially useful for people with visual impairments.

For good readability, I am using a large font size of 2.5rem for the navigation and 1rem (based font size) for the body text. For page headings, I will be using 1.5rem font size.

**Colour**Taking from my reading of the WebAim’s article on colours (https://webaim.org/articles/contrast/#sc141), I will define my css colour in hexadecimal (e.g #000000).

I will create the following colour palette:  
  
**Primary Colour**I am going for a strong bold colour of black (#000000).

**Secondary Colour**I will be using a complimentary colour of orange (#C79A00)

**Alternative Colour**

I will go for a muted gold for items like buttons etc.

**Font Colours**

For a complimentary font colour, white (#ffffff) would be used for the dark backgrounds.

**Colour Palette**

I am using the Adobe colour wheel as guide (https://color.adobe.com/create/color-wheel)

**Colour Accessibility**

I will use the WCAG 2.2 guideline criteria for contrast and readability ensuring a minimum 4.5:1 ratio as recommended.

I will use the Colour Contrast Analyser tool for accessibility and aid on contrast (<https://colour-contrast-analyser.macupdate.com/>). I will also use the WebAIM colour checker as an extra guide.

**Responsiveness**

The Mobile-first approach was adopted. I used media query to adapt to other devises such as tablet and desktop. The website was tested on different devices, Mobile, Desktop and Tablet to ensure smooth responsiveness.

**JavaScript Techniques**JavaScript ECMAScript 2015 (ES6) syntax is heavily used in this project for DOM interactivity. Some of the techniques used include the followings:  
**Variable:** For variables the declarations, I used the modern “*const”* and *“let”* as against the old *“var”.*

**Object and Array:** I made use of array of objects on the Projects page to retrieve list of projects, e.g. on the project.js.

**Functions:** Both the arrow and regular function syntaxes are used. They are used throughout to avoid code repetitions. Examples could be found on the index.js and project.js.

**DOM Interactivity & User Inputs:** Examples of these can be found on the [Register](https://curly-barnacle-nr9n5ov.pages.github.io/register/register.html) & [Contact pages](https://curly-barnacle-nr9n5ov.pages.github.io/contact/contact.html) where forms are used to collect user information and responses are received on the page upon the form submissions. Other examples are on the [Project page](https://curly-barnacle-nr9n5ov.pages.github.io/projects/project.html) where users can “like” of “dislike” or join certain projects.

**ES6 Modules Features:** The export module feature is used for the Header, Footer and the Hero banner. The module is imported into these files and inserted dynamically into the appropriate areas of the pages. This ensures consistency and easy-to-manage code.

**LocalStorage:** I made use of the browser’s localStorage features to store data collated on the web forms. I also made use of this feature on the Project page to store the “likes” and “dislikes” that user made on the page. On page reload, the data is retrieved from the localstorage and displayed on the page.

**Data API:** I am using a local data, stored in a json file as a datasource. The data is exported using the “export” keyword. I then imported the file in the web page where it is needed.

**Accessibility & Validation**All pages passed validations without errors.

**A screenshot of a computer

Description automatically generated**

**Conclusion**

This report has outlined the development of a professional portfolio website that follows the standard conventions and regulations. Alongside the regular html and CSS, javaScript is extensively used to add interactivity to the website.  
For future improvements, I would love to add a real database to store and retrieve data, as well as using a proper Rest API endpoint to fetch data.  
  
**References:**

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