

## Group M16 CMP4011A Website Documentation

Trello Link - <https://trello.com/b/r4L0VJ8b/group-m16-2025-26-cmp-4011a-assignment>

GitHub Link - <https://github.com/AdamHewitt707/web-dev-nsg>

### Introduction

The aim of the website is to present information to local policy makers, about three of the UN's sustainable development goals (quality education, clean water and sanitation, and climate action), and to spread awareness about these in the local community.

### Features and Functionalities Achieved

We used clear navigation in the header and footer, to allow the user to move between pages at any point. The page's structure uses the HTML semantic markup, and the content is loaded dynamically using JavaScript. All CSS and JavaScript was added in external files.

We implemented responsive design by using relative values in the css file to determine the size of different elements on the page. The layout also changes based on screen size, with the header being replaced by a hamburger icon and drop down menu that appears when the user clicks on it. These mean it fits better on smaller screen sizes and mobile devices. This is also one way we achieved an interactive design, along with the dropdown menu in the header, and the navigation arrows for the carousel.

We used a large text size, and the colours used for the text and background of the main content have a contrast ratio of 9.02:1, while the colours used for the footer's text and background have a contrast ratio of 4.59:1, meaning that the text can be easily read by visually impaired users, and complies with the WCAG 2.2 AA accessibility standard, which is legal requirement for all websites run by public bodies to follow<sup>1</sup>. This ensures the website can be used by all prospective users, including disabled people.

Form validation was implemented in the sign up page, as the form only sends the data if entered into all required fields, and it saves it in a JSON file. We started implementing a feature to prevent duplicate emails, and therefore reduce the amount of redundant data being stored. However, it was complex to implement, so we decided not to prioritise it for this version of the website.

We also attempted to add a translation feature, in order to improve the accessibility of the website, as it would allow for more people to access the content of the site. However, this proved to be complex to implement and we decided not to prioritise it for this version. As the content of the website is written in plain text, it can easily be highlighted by the user and translated using other software, meaning that the feature isn't essential.

### Task Allocation

Adam - Home page design and development, including javascript and JSON, as well as header and footer development, including interactive design.

Tyler- Sign-up page design and development, including javascript, JSON, and form validation, server javascript file.

Martha - Goals pages design and development, including javascript and JSON, one page documentation.

Chalak - Team page design and development, including javascript and JSON translation feature.

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<sup>1</sup> Government Digital Service and Central Digital and Data Office (2018) *Understanding Accessibility Requirements for public Sector Bodies* [online] Available at: <https://www.gov.uk/guidance/accessibility-requirements-for-public-sector-websites-and-apps> [Accessed 9 December 2025]