# Skillnet Web Developer – Project brief

## Project overview:

Modern websites are designed to work on a range of different devices and device sizes.

The core aim of this project is to apply the skills you have acquired in HTML5, CSS3 and JavaScript to create a responsive website that works across desktop, tablet and mobile phones.

This project will be both be an exercise and challenge in applying the skills you have learned as well as being a learning experience in designing, building and testing a website.

This project will not be graded but you will be given the opportunity to share your creation.

## Website theme and content:

The theme of the website is flexible but geared toward showcasing your creativity, skills and ability in HTML5, CCS3 and JavaScript. The site may act as your front end *Web Developer Digital CV* which you can use to demonstrate your abilities and your understanding of different aspects of styling in CSS, good use of sematic HTML and how to enhance a sites interactivity and usability using JavaScript.

You may choose to replicate the design/layout of a site you like or design your own. You are free to use frameworks or templates if you wish or simply design and build your own layout.

You may choose to simply create a site that contains sections where you showcase, explain and demonstrate various aspects of CSS styling and JavaScript functionality.

Further direction will be given in an upcoming online session.

## Website components that could be included:

The website *could* include:

* A responsive layout (using media queries with floats or flexbox or other approach)
* Styled responsive navigation
* Dropdown menus
* Responsive mobile navigation menu
* Styled links
* Fixed, relative, absolute positioning
* Good use of semantic HTML tags
* Utilising the CSS box model
* Animations and transitions
* Borders, shadows
* Text and images
* Tables and forms
* JavaScript enabled interactivity

(such as a touch mobile menu, altering/styling elements in the DOM )

## Website appearance:

You should think about and choose an appropriate colour pallet and think about the font(s) you are going to use. You are free to use either web-safe fonts, google fonts and font awesome.

## Project approach:

You may choose to replicate the design/layout of a site you like or design your own layout. You are free to use frameworks or templates if you wish or simply design and build your own layout.

You may choose to simply create a site that contains sections where you showcase, explain and demonstrate various aspects of CSS styling and JavaScript functionality.

All good responsive websites start with a good design of the structure/layout and content that will be available on different device sizes. Designs do not have to be created using software. They can be simply hand drawn sketches. However a design is needed. Too often starting without a well thought out design can lead to failure, hard to manage code, difficulty in adapting or changing your code and worse – having to start over again from scratch!

Before you write a single line of HTML or CSS you will need to think about your design and how it should look and respond to different devices an viewport sizes. You will need to fully consider in advance of any coding what the content and layout will look like across different size devices.

|  |  |  |
| --- | --- | --- |
| **Desktop** | **Tablet** | **Mobile** |
| Chart  Description automatically generated with medium confidence | Chart  Description automatically generated with low confidence | A picture containing bar chart  Description automatically generated |

A note on the design: **Keep it simple**. An overly ambitious design could lead to a very time consuming development period. It is better to have a simple well laid out and appealing styled site as apposed to one that is a cutting edge work of art.

### Working within your Pods:

You are encouraged to work together in you pods to discuss your ideas, share you designs and give feedback, advice and help each other. A second set of eyes can help identify and clarify design considerations.

## Testing you website

Utilise VS code live server and Chrome developer tools while building your website to ensure your site conforms and responds in accordance with your design.

You should also ensure check that your HTML5 and your CSS3 validates by utilising online validators tools such as:

HTML Markup validator - <https://validator.w3.org/>

CSS validator - <https://jigsaw.w3.org/css-validator/>

## Hosting your site online

Your site will be created and developed on your own PC/Laptop. Once a website is developed the next stage is to make it available on the web. To demonstrate this process the next step will be to host your site online so that it can accessed by anyone via the world wide web.

This can be achieved by using free tools and FTP protocol to upload your entire website to a hosting provider. You do not need a domain name and there are free hosting services available which can be used. Further advice and guidance will be given on how to go about getting hosting and uploading your site in online session later on in the course.