

**ASSESSMENT AND INTERNAL VERIFICATION FRONT SHEET (Individual Criteria)****(Note: This version is to be used for an assignment brief issued to students via Classter)**

Course Title	Bachelor of Arts (Honours) in Interactive Digital Media			Lecturer Name & Surname	Matthew Cumbo	
Unit Number & Title		CAIDM-506-2201   Website Development				
Assignment Number, Title / Type		Time to Surf				
Date Set		1 <sup>st</sup> March 2025	Deadline Date	18 <sup>th</sup> April 2025		
Student Name			ID Number		Class / Group	

<b>Assessment Criteria</b>	<b>Maximum Mark</b>
<b>KU1</b> Identify the key factors and constraints influencing the design of an effective web application.	10
<b>KU2</b> Indicate accessibility solutions commonly used in the development of a web application.	10
<b>KU3</b> Outline the implemented structure and functionality of a website using comments and documentation.	10
<b>AA1</b> Prepare a design document addressing aesthetic website requirements.	10
<b>AA2</b> Illustrate functional and non-functional requirements for the web application.	10
<b>AA3</b> Use JavaScript/jQuery to implement interactive functionality within the website.	10
<b>AA4</b> Use predefined third-party JavaScript/jQuery plugins to enhance the functionality of a website.	10
<b>SE1</b> Assemble a website or web application using the latest HTML mark-up and CSS and a front-end web framework.	10
<b>SE2</b> Integrate accessibility principles into the website or web application.	10
<b>SE3</b> Make use of validation tools to record and resolve issues in code abiding by a testing strategy.	10
<b>Total Mark</b>	100

<b>Notes to Students:</b>
<ul style="list-style-type: none"> <li>This assignment brief has been approved and released by the Internal Verifier through Classter.</li> <li>Assessment marks and feedback by the lecturer will be available online via Classter (<a href="http://mcast.classter.com">http://mcast.classter.com</a>) following release by the Internal Verifier</li> <li>Students submitting their assignment on Moodle/Turnitin will be requested to confirm online the following statements: <ul style="list-style-type: none"> <li><b>Student's declaration prior to handing-in of assignment</b> <ul style="list-style-type: none"> <li>❖ I certify that the work submitted for this assignment is my own and that I have read and understood the respective Plagiarism Policy</li> </ul> </li> <li><b>Student's declaration on assessment special arrangements</b> <ul style="list-style-type: none"> <li>❖ I certify that adequate support was given to me during the assignment through the Institute and/or the Inclusive Education Unit.</li> <li>❖ I declare that I refused the special support offered by the Institute.</li> </ul> </li> </ul> </li> </ul>

## Purpose and Aims

The point of this unit is to provide the learner with the knowledge and practical experience they need to build and manage professional websites or web applications for a client. It aims to cover the fundamental knowledge and practical experience needed to do so using the latest HTML and CSS mark-up, as well as using JavaScript and modern frameworks such as Bootstrap.

Web development is the process of creating websites or web applications, encompassing both the design element and the more technical sides of the process. This can range from developing a single page of plain text to complex web applications, electronic businesses, and social network services.

This unit will introduce you to the basic practice of web development and push you to use the acquired skills to redesign a website of your liking. Wherever possible, you are encouraged to link practices learned in other units to fuel your work for this one.

## Scenario

You are to plan, design, and develop a basic website related to an interesting subject of your choice. As the basic groundwork for your website, you need to include a **home page**, an **about/info** page, a page with a list of **blog/articles**, and a **focused page** for each individual blog/article, and a **contact form** for any prospective collaborators/clients. You are encouraged to create more pages if you believe they can add value to your project.

This website is to be hosted via **GitHub**, with regular updates being made throughout the development process of your website.

## Task 1

Before any development is done, a **Research Design Document** should be written. This contains research and design work done to inform the development process later on.

### Part 1 – Research

When a website is designed, one should always keep in mind who the target audience is and design their website accordingly. Furthermore, one should always design their website in a way that makes it accessible by as many people as possible, including people who may have some disability that makes it harder for them to access the web.

For the first part of this task, you are to research who your target audience is and what can be done to make sure everyone can use it properly.

- Explain what the website is about.
- Develop 3 User Personas that represent the target audience of your website. Make sure to include all the relevant information.
- Research and explain Web Accessibility, going in detail about different elements of this topic and how it can help users, and how it can affect the design of your website.

**N.B.** You are allowed to produce more uniquely styled pages as long as the core list outlined in the assignment scenario is respected.

## Part 2 – Planning

Before any design work is done, one should always plan out what pages they will have in their website, as well as any functionality that these pages should include.

- Produce a Sitemap, which will show the Navigational Structure of the website
- List any functionalities that will be included in these pages (i.e. anything that is interactive should be listed here)

Once this part of the planning is complete, one can move on to setting up the design rules for the whole website as well as layouts for the different pages that will make up the website.

- Compile a Style Guide covering all the visual specifications to be followed when development of the website starts
- Plan out the layout of your web pages by constructing:
  - 2 Low-Fidelity Wireframes for each unique page in your website
  - 1 Medium-Fidelity Wireframe for each unique page in your website, based on one of the Low-Fidelity Wireframes designed before

**Submission:** Two PDF documents hosted in a GitHub repository

**Grading Criteria:** KU1, KU2, AA1, AA2

**Deadline:** 18<sup>th</sup> April 2025

## Task 2

In this task, you will be building your own website based on the planning outlined within your Research Design Document.

During this process, make sure to:

- Build your website using appropriate HTML practices and HTML5 semantics to define the basic structure and functionality of your web pages.
- Use CSS and CSS3 properties to style your web pages according to your defined Style Guide.
- Use Bootstrap to aid the development of your web pages.
  - Make sure that your web pages are responsive.
- Use JavaScript and/or jQuery to implement interactive functionality in your website, according to your listed functionalities.
  - You can use other 3<sup>rd</sup> party plugins to further enhance the functionality of your website.
- Integrate Accessibility solutions into your designed, keeping in mind the research done in the first task.
- Organise your project properly, including following proper naming conventions throughout your project.
- Include comments within your code to help explain what your code is doing.
- Make sure to validate your code, using online validators or VS Code Extensions.

**N.B.** Your website files must be synced with a **GitHub repository** and use **GitHub Pages as a host** when complete. Show continuous evidence of your output by uploading your pages regularly to the repository (this will also serve as a backup of your work).

**Submission:** Same GitHub repository as Task 1, including project files

**Grading Criteria:** KU3, AA3, AA4, SE1, SE2

**Deadline:** 18<sup>th</sup> April 2025



### Task 3

For this task, you are to write a Technical Document, showing your testing and validation process.

- Generate an IPO Chart, detailing how you intend to test your project
- Create a table of Test Cases to show how you followed your test plan
- Document how you validated your code. You can also use screenshots to show how this was done (but screenshots alone are not enough).

**Submission:** Technical Document added to the same GitHub repository as Task 1 & 2

**Grading Criteria:** SE3

**Deadline:** 18<sup>th</sup> April 2025



## Minimum Evidence List

Your GitHub repository link must include:

- |   |   |                          |
|---|---|--------------------------|
| 1 | <b>T1:</b> Research Design Document in PDF format via GitHub. | <input type="checkbox"/> |
| 2 | <b>T2:</b> Project files via GitHub.                          | <input type="checkbox"/> |
| 3 | <b>T3:</b> Technical Document in PDF format via GitHub.       |                          |

Print this page and hand in with your assignment on final hand in date.