MCAST

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 Graphic Design**		**Lecturer Name & Surname**	**Matthew Cumbo**	
Unit Number & Title	CAWEB-506-1503 | Introduction to Web Development				
Assignment Number, Title / Type	Time to Surf				
Date Set	2nd March 2025	Deadline Date	30th May 2025		
Student Name	Aurora Mifsud	ID Number	0079505L	Class / Group	GRD 5.1B

Assessment Criteria	Maximum Mark
KU1 Outline the key factors and constraints influencing the design of an effective web application.	10
KU2 Identify authoring tools and code frameworks used in the development of a web application	10
KU3 Identify accessibility solutions for the web application plan.	10
KU4 Record and rectify issues in code, abiding by a developed test strategy document and appropriate validation tools.	10
AA1 Construct a design document which includes a site map, wireframe and style guide.	10
AA2 Apply the latest HTML mark-up and CSS to the web application.	10
AA3 Apply accessibility principles to the web application.	10
AA4 Apply appropriate naming conventions to the resources used in the creation of a web application.	10
SE1 Develop functional and non-functional requirements for the web application.	10
SE2 Evaluate the results of the test carried out by presenting appropriate modification solutions.	10
Total Mark	100

Notes to Students:

- This assignment brief has been approved and released by the Internal Verifier through Classter.
- Assessment marks and feedback by the lecturer will be available online via Classter (Http://mcast.classter.com) following release by the Internal Verifier
- Students submitting their assignment on Moodle/Turnitin will be requested to confirm online the following statements:

Student's declaration prior to handing-in of assignment

- ❖ I certify that the work submitted for this assignment is my own and that I have read and understood the respective Plagiarism Policy

Student's declaration on assessment special arrangements

- ❖ I certify that adequate support was given to me during the assignment through the Institute and/or the Inclusive Education Unit.
- ❖ I declare that I refused the special support offered by the Institute.

Purpose and Aims

This unit will provide the learner with the core technical knowledge needed to design and program a web application for a client such as a small business.

This unit will provide learners with the knowledge and practical experience they need to build and manage professional websites using the latest HTML and CSS mark-up, which can be implemented in future-rich web browsers on iPhones, Android Phones, and WebOS Phones, thereby allowing learners to design and build websites that surpass desktop equivalents.

Learners will begin by reviewing the key principles of good web design in relation to a number of objectives including market analysis and information architecture. Learners will then design a web applicaiton for use on a range of different platforms, which will require them to be confident in carrying out more advanced design techniques whic haddresses current accessibility guidelines. Using validation tools to test the web application, learners will then make recommentations for the future development of their product.

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, at minimum, you need to include a **home page**, an **about/information page**, a **list of blog/articles** and a **focused page** for each blog/article, and a **contact form** for any prospective collaborators. You are encouraged to create more pages if you believe they can add value to your project.

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

Task 1 – Research Document

Web Accessibility Research (KU3)

Before starting any work related to the website itself, conduct some research into the topic of Web Accessibility. To better understand this topic, you are required to visit a number of existing websites and pinpoint where these principles are applied or where they are skipped, leading to accessibility issues.

In **not less than 500 words**, make sure to explain what Web Accessibility is, detailing some of its principles with examples from existing website, and giving some examples of what aspects of Web Accessibility you intend to implement in your own project.

Submission: One PDF document hosted in a GitHub repository
Grading Criteria: KU3
Deadline: 21st March 2024

Task 2 – Planning Document

You are to propose a new website, starting off from the initial design phase as well as going through the complete development of the website. The subject of this website is up to you to decide, it can be about anything within your interest. You are encouraged to consider alternative layouts, add-on content or other general improvements that would be of benefit to your website development.

For your first task, you are to create a Planning Document that needs to include the following:

Part 1 – Project Idea (SE1)

1. Explain what the website is about and what its purpose is.
2. List all the different pages that you intend to have as part of your website, including all the functionality that will be built into these pages.

Part 2 – Target Audience (KU1)

1. Develop 3 User Personas that represent the target audience of your website. Make sure to include all the relevant information.
    a. Must have information:
        i. Basic personal information
        ii. Why they want/need your website
        iii. Frustrations with similar websites

Part 3 – Design Planning (AA1)

Based on the User Personas developed in Part 2:

1. Produce a Sitemap, which will show the website's Navigational Structure.
2. Compile a Style Guide covering all the visual specifications of your work.
    a. Make sure to design as many components here as possible, even if they are not necessarily going to be used in your project
    b. Make sure to have as much detail as possible about all the different aspects of the Style Guide so you can avoid making design decisions while coding.
3. Plan out your web pages by constructing:
    a. At least 2 low-fidelity wireframe for each unique page in your website.
        i. These wireframes should display different possibilities for the layout of the page in question
    b. 1 medium-fidelity wireframe for each unique page in your website
        i. This wireframe should be based on the low-fidelity wireframe that was deemed to be ideal

Part 4 – Test Plan (KU4)

You are to plan your testing for when your website is complete.

1. Construct an IPO chart which will illustrate the list of functionalities for your website and serve as your testing strategy

Submission: One PDF document hosted in the same GitHub repository as Task 1

Grading Criteria: KU1, KU4, AA1, SE1

Deadline: 11th April 2024

Task 3 – Project Development

For this Task, you are to build your own website based on the planning outlined within your Planning Document.

Part 1 – Core Structure (AA2, AA4)

1. Build your website using appropriate HTML practices and HTML5 semantics to define the basic structure and functionality of your website pages.
2. Use CSS and CSS3 properties to style your web pages according to your defined style guide
3. Organise your project properly, including following proper naming conventions throughout your project.
4. Your code needs to be validated using the following validators:
    a. HTML: *https://validator.w3.org/*
    b. CSS: *https://jigsaw.w3.org/css-validator/*

Part 2 – Accessibility (KU2, AA3)

1. Use Bootstrap to set up your layout, making sure this results in a responsive layout.
2. Integrate Accessibility solutions into your design.
3. Include comments within your code to help explain what your code is doing.

NB: You can use the following links to refer to the different types of HTML elements and CSS properties that can be used:

- HTML: *https://www.tutorialrepublic.com/html-reference/html5-tags.php*
- CSS: *https://www.tutorialrepublic.com/css-reference/css3-properties.php*

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, including detailed descriptions with your Commits (this will also serve as a backup of your work).

Submission: Project files added to same GitHub repository as Task 1

Grading Criteria: KU2, AA2, AA3, AA4

Deadline: 16th May 2024

Task 4

For this task, you are to write a Technical Document, showing your process to test and validate your project.

1. Based on the IPO chart created during Task 1, generate a list of processes that you tested; whether they worked or not, and how issues were fixed.
    a. Examples: making sure that all links work, all images are loaded, etc
    b. Information to be included:
        i. Tested Action
        ii. GitHub Commit ID
        iii. Expected Output
        iv. Actual Output
        v. Pass/Fail
        vi. Notes (Notes should include suggested action to rectify failed tests)
2. Document how you validated your code using the provided validation tools.
    a. You can also use screenshots to show how this was done, but screenshots alone are not enough.
3. Discuss current issues in your website and what can be done to remedy them, as well as further improvements that can be implemented in the future.

Submission: Same PDF Document added to same GitHub repository as Task 1

Grading Criteria: SE2

Deadline: 30th May 2024

Minimum Evidence List

Your GitHub repository link must include:

1	**T1:** Research document in PDF format via GitHub.	☑
2	**T2:** Planning document in PDF format via GitHub.	☑
3	**T3:** Project files via GitHub.	☑
4	**T4:** Technical document in PDF format via GitHub.	☑

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