

**ASSESSMENT AND INTERNAL VERIFICATION FRONT SHEET (Individual Criteria)**

Course Title	MCAST Advanced Diploma in IT	Lecturer Name & Surname	Andrew Caruana
Unit Number & Title	ITWEB-406-1501: Website Design		
Assignment Number, Title / Type	1, Developing a responsive website (Home)		
Date Set	07-12-2022	Deadline Date	10-01-2023
Student Name		ID Number	
		Class / Group	

<input type="checkbox"/>	<b>Student's declaration prior to handing-in of assignment:</b> ❖ I certify that the work submitted for this assignment is my own and that I have read and understood the respective Plagiarism Policy
<input type="checkbox"/>	<b>Student's declaration on assessment special arrangements (Tick only if applicable)</b> ❖ I certify that adequate support was given to me during the assignment through the Institute and/or the Inclusive Education Unit.
<input type="checkbox"/>	❖ I declare that I refused the special support offered by the Institute.
Student Signature:	Date :

Assessment Criteria	Maximum Mark	Mark Achieved
<b>KU2.5: Collect and prepare site content</b>	5	
<b>KU3.2: Define the basic selectors of a JavaScript framework</b>	5	
<b>KU3.3: Show knowledge of functions and events of a JavaScript framework</b>	5	
<b>KU3.4: Describe the use of a plugin based on JavaScript</b>	5	
<b>AA2.2: Implement styling layout structures</b>	7	
<b>AA3.1: Use JavaScript to implement basic functionality</b>	7	
<b>AA4.1: Explain how a website is properly tested</b>	7	
<b>AA4.2: Deploy a website to demonstrate its functionality</b>	7	
<b>SE4.3: Propose and implement further changes to improve cross-browser compatibility</b>	10	
<b>SE4.4: Assess how the usability of the website can be improved</b>	10	
<b>Total Mark</b>	<b>68</b>	

**Assessor's feedback to student***(If necessary, use reverse side of page for IV feedback on assignment brief / sample of assessment decisions)*

	<b>Name &amp; Surname</b>	<b>Signature</b>	<b>Date</b>
<b>Internal Verifier:</b> Approval of <u>assignment brief</u>		For approval signature, please refer to electronic audit trail	
<b>Lecturer / Assessor:</b> Issue of results and feedback to student		For approval signature, please refer to electronic audit trail	
<b>Internal Verifier:</b> Approval of <u>assessment decisions</u> (Sample)		For approval signature, please refer to electronic audit trail	
<b>Learner's signature upon collection of corrected assignment.</b>			



MCAST

Advanced Diploma in IT (MQF Level 4 – Year 1)

ITWEB-406-1501 - Website Design

## Home Assignment: Developing a responsive website

### Assignment Guidelines

- This assignment is a **Home Assignment** and should be strictly completed by **10<sup>th</sup> January 2023**.
- Fill in the assignment **cover sheet completely**. The student's assignment cover sheet should be attached to the project being submitted. Note that assignments handed in without the cover sheet will be considered as **Not Submitted**.
- Answer all the questions in a separate document or relevant programs/files.
- Highlight clearly the Criteria Number/Question Number and your answer in your work.
- Submission method: **Soft copy only** and on **Moodle** (more instructions will be given by your lecturer).
- **Plagiarism is strictly prohibited. Proper references must be used. Copying will be penalized** in line with the College's disciplinary procedures.
- **Individual interviews** may be held and hence the achievement of marks will depend on the outcome of the interview accordingly.

## Assignment Overview

A start-up firm has created a business plan and secured a meeting with potential investors to start operating in the iGaming industry. The plan is to start with **9 Casino Games (Roulette, Slot Machines)**. You were asked to design, and create a layout that would bring this idea to life.

### Section 1 - Plan and design

#### KU2.5 – Collect and prepare site content

**5 marks**

Create wireframes using Figma or Adobe XD.

- Home - Login / Register 2 marks
- About us (Use any content you like) 1 mark
- Contact us (Use any content you like) 1 mark
- Space for different games 1 mark

Notes:

- Wireframes should be for desktop, tablet, and mobile phone
- Different sections do not need to be on different pages if the design is neat and works for the above-mentioned project. You can get ideas from current operating iGaming websites.

### Section 2 – Implementation

Time to start with the implementation phase.

#### AA2.2 – Implement styling layout structures

**7 marks**

Using HTML and CSS create the pages according to the wireframes you created in the design stage.

- Home - Login / Register 2 marks
- About us (Use any content you like) 1 mark
- Contact us 1 mark
- Space for different games 3 marks

#### AA3.1 – Use JavaScript to implement basic functionality

**7 marks**

When a Game is clicked, a window will pop-up (or open in new tab) showing a related background image.

#### KU3.2 – Define the basic selectors of a JavaScript framework

**5 marks**

The Register button should display a form (can be on a separate page or same page using CSS property display for the register div)

When the register button is clicked, validate the inputs using **jQuery**

- Name and Surname textboxes allow only letters 2
- Phone numbers textbox allows only numbers 1
- e-mails are in the correct format xxxx@xxxxxx.xxx 1

#### KU3.3 – Show knowledge of functions and events of a JavaScript framework

**5 marks**

On the login button on your home page, create an onclick event.

Once the button is clicked a function that displays an alert box saying 'you are logged in' must show

2 marks  
3 marks

#### KU3.4 – Describe the use of a plugin based on JavaScript framework

**5 marks**

Using Bootstrap create a carousel slider with a minimum of 3 images

Discuss the steps to create the carousel in your document

3 marks  
2 marks

**AA4.2 – Deploy a website to demonstrate its functionality****7 marks**

Backup your work on a GitHub repository with a min of 5 commits

3 marks

Load the work on GitHub pages

4 marks

**SE4.3 – Propose and implement further changes to improve cross browser compatibility****10 marks**

Media Query for mobile view port correctly implemented

5 marks

Media Query for tablet view port correctly implemented

5 marks

**Section 3 – Evaluation and Testing**

Your implementation stage is complete; however, some fine tuning is still required

**AA4.1 – Explain how a website is properly tested****7 marks**Validate your work - <https://validator.w3.org/>

2 marks

2 correct test cases performed and documented.

2.5 marks each

Below is a sample test case you can follow.

Test Case ID	BU_001	Test Case Description	Test the Login Functionality in Banking		
Created By	Mark	Reviewed By	Bill	Version	2.1
QA Tester's Log	Review comments from Bill incorporate in version 2.1				
Tester's Name	Mark	Date Tested	1-Jan-2017	Test Case (Pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	Access to Chrome Browser		1	UserId = mg12345	
2			2	Pass = df12@434c	
3			3		
4			4		
Test Scenario	Verify on entering valid userid and password, the customer can login				
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Navigate to http://demo.guru99.com	Site should open	As Expected	Pass	
2	Enter UserID & Password	Credential can be entered	As Expected	Pass	
3	Click Submit	Cutomer is logged in	As Expected	Pass	
4					

**SE4.4 – Assess how the usability of the website can be improved****10 marks**

Document conclusion

Provide a critical reflection of your work

4 marks

Future work

3 marks

Discuss on the improvements that can be made

3 marks

Marking scheme

Criteria	Marking structure	Maximum mark	Mark Awarded
<b>KU2.5(Q1)</b>	Award 1 mark for each wireframe created. <ul style="list-style-type: none"> <li>• Home Page</li> <li>• Login/ Register</li> <li>• About us</li> <li>• Contact us</li> <li>• Games</li> </ul>	5	
<b>AA2.2 (Q2)</b>	Proper implementation of layout and content using HTML & Proper implementation of styling using CSS. <ul style="list-style-type: none"> <li>• Home Page</li> <li>• Login/ Register</li> <li>• About us</li> <li>• Contact us</li> <li>• Games</li> </ul> 1 mark for the first 4 sections created respecting the wireframes from the design section. 3 marks for the games section.	7	
<b>AA3.1 (Q3)</b>	3 marks for onclick event with proper reference 3 marks for proper function creation 1 mark for implementation of static background image on new page	7	
<b>KU3.2 (Q4)</b>	1 mark for the creation and display of Registration form. Award 1 mark for each proper input validation <ul style="list-style-type: none"> <li>• Name</li> <li>• Surname</li> <li>• Phone number</li> <li>• e-mail</li> </ul>	5	
<b>KU3.3 (Q5)</b>	2 marks for onclick event with proper reference 2 marks for proper function <ul style="list-style-type: none"> <li>• 1 mark for alert box</li> </ul>	5	
<b>KU 3.4 (Q6)</b>	3 marks for implementation of carousel slider using a JavaScript framework (e.g. Bootstrap or jQuery) 2 marks for proper step by step explanation within the document	5	
<b>AA4.2 (Q7)</b>	1 mark for proper setup of GitHub account 1 mark for proper setup of GitHub repository 2 marks for 10 commits within repository 3 marks for deploying website through GitHub pages	7	
<b>SE4.3 (Q8)</b>	5 marks for proper implementation of @Media in CSS to view page on mobile phones 5 marks for proper implementation of @Media in CSS to view page on tablets	10	
<b>AA4.1 (Q15)</b>	2 errors found and documented using the HTML Validator, and fixed and re-validated again. (1 marks for each error identified, documented, fixed and re-validated). 2 correct test cases performed and documented (2.5 marks each)	7	
<b>SE4.4 (Q16)</b>	1 mark for the mention of each limiting factor (up to 4 marks) 1 mark for every possible improvement mentioned (up to 3 marks) 1 mark for every possible future function/ addons of this project. (up to 3 marks)	10	

Total Marks (out of 68): \_\_\_\_\_