ASSESSMENT AND INTERNAL VERIFICATION FRONT SHEET (Individual Criteria)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course Title | Advanced Diploma in IT (MQF Level 4) | | | Lecturer Name & Surname | | Marco Farrugia | | | | |
| Unit Number & Title | | ITWEB-406-1501: Website Design | | | | | | | | |
| Assignment Number,  Title/ T e | | 2, Creating a Personal Portfolio Website (Home) | | | | | | | | |
| Date Set | | 20-03-2025 | Deadline Date | 04-04-2025 | | | | | | |
| Student Name | Larson farrugia | | ID Number | 0427508L | | Class I  Group | 4.1B | | | |
| Assessment Criteria | | | | | Maximum Mark | | | Mark  Achieved | |
| KU3.2: Define the basic selectors of a JavaScript framework | | | | | 5 | | |  | |
| KU3.3: Show knowledge of functions and events of a JavaScript framework | | | | | 5 | | |  | |
| KU3.4: Describe the use of a plugin based on JavaScript | | | | | 5 | | |  | |
| AA2.2:Implement styling layout structures | | | | | 7 | | |  | |
| AA3.1: Use JavaScript to implement basic functionality | | | | | 7 | | |  | |
| Explain how a website is properly tested | | | | | 7 | | |  | |
| AA4.2:Deploy a website to demonstrate its functionality | | | | | 7 | | |  | |
| SE4.3:Propose and implement further changes to improve cross-browser compatibility | | | | | 10 | | |  | |
| SE4 . 4: Assess how the usability of the website can be improved | | | | | 10 | | |  | |
| Total Mark | | | | | 63 | | |  | |
| 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 VLE/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. | | | | | | | | |

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# MCAST

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

ITWEB-406-1501 - Website Design

Home Assignment: Creating a Personal Portfolio Website

Assignment Guidelines

This assignment is a Home Assignment and should be strictly completed by 4th April 2025.

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 document and relevant programs/files.

Highlight clearly the Criteria Number/Question Number and your answer in your work.

Submission method: Soft copy only and on VLE.

Plagiarism is strictly prohibited. Proper references must be used. Copying will be penalised in line with the College's disciplinary procedures.

Any Al generated code is strictly prohibited and will be penalized according to MCAST's plagiarism policy.

Individual interviews may be held and hence the achievement of marks will depend on the outcome of the interview accordingly.

## Assignment Overview

In this assignment, you will design and develop your own personal portfolio website. This website will introduce you and showcase your interests and work. The website must include relevant content using HTML, proper styling using CSS and interactive elements using JavaScript and a JavaScript framework (such as jQuery).

This assignment will help you demonstrate your ability to create a functional website with appropriate styling, interactivity, and usability improvements.

### Website Requirements

Your portfolio website must include the following four pages:

* Home — A welcome page introducing yourself.
* About Me — A page with details about your interests, skills, and background.
* Portfolio — A page showcasing projects, hobbies, or anything you've worked on (must include images, descriptions, and links).
* Contact —A page with a contact form for users to reach you out; it must use jQuery for validation.

#### Assessment Criteria and Tasks

Task 1: Structuring Your Website (AA2.2 — 7 marks)

To implement a structured and visually appealing layout, you must:

* Implement a consistent layout across all pages using an external CSS file;
* Implement external CSS stylesheets for centralised styling (do not use inline CSS).
* Ensure the navigation menu is consistent across all pages.
* Add a hover effect on the navigation menu (e.g., background colour change or underline effect).
* Use a clear and readable font across the website.
* Make sure the website is organised, well-spaced, and visually appealing by using CSS Flexbox or Grid
* Organise website files (HTML, CSS, JavaScript, Images) into sub-folders.

Task 2: Adding Interactivity with JavaScript (KU3.3 — 5 marks, KU3.4 — 5 marks, AA3.1 — 7 marks)

You are required to enhance the website's interactivity using JavaScript and jQuery:

1. JQuery Functions & Events (KU3.3 — 5 marks)
   * Implement interactive event-driven functionality using JQuery and JavaScript functions.
   * Example: Use click events to show/hide elements or change styles dynamically.

Example: Add a button labelled "More About Me" that, when clicked, expands a hidden section with additional text.

1. JQuery Plugin (KU3.4 — 5 marks)
   * Research on how jQuery plugins work by referring to the class notes on VLE and other online sources.
   * Implement a jQuery plugin in your About Me page to create a gallery/slideshow (4 marks).
   * Include a reference to the website where you found the plugin (1 mark).

Example: Use a lightbox gallery plugin to allow users to click images and enlarge them in a pop-up window.

1. JavaScript Functionality (AA3.1 — 7 marks)
   * + Portfolio Page: Add a "View More" button below each project. When clicked, it should display additional details about the project using JavaScript. (4 marks)
     + About Me Page: Add a "Surprise Me" button that, when clicked, displays a random fun fact about yourself using JavaScript. (3 marks)

Task 3: Contact Form with JQuery Validation (KIJ3.2 — 5 marks)

On the Contact page, you must create a functional contact form with at least the following fields (1 mark):

* + - Name (required, must not be empty)
    - Email (required, must be a valid email format)
    - Contact number (required, must be in the format +356 #### ####)
    - Message/Comment (required, must contain at least 10 characters)
    - Send button

Validation requirements (4 marks):

* + - Use jQuery whenever you need to select and manipulate elements on your pages.
    - Example: Use $() to select elements and modify styles or content dynamically.
    - Use jQuery validation to ensure fields are filled correctly.
    - If a user submits an empty or invalid field, display an error message next to the field using jQuery.
    - If the form is valid, display an alert message: "Thank you! Your message has been sent. "

Example: When the user submits the form with an incorrect email, show an error message in red colour: "Please enter a valid email address", next to the email field.

Full Name

Your full name..

Email

Your email..

Contact number

Your contact number..

Comment

write your comment here..

Send

Figure 1: Example contact form

Task 4: Testing Your Website (AA4.1 — 7 marks)

You must test at least two interactive features of your website using the format below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Desc. | Feature tested, e.g. Navigation Hover Effect | | | | |
| Date | 19/03/2025 | | | | |
| Test No | Input  (Steps taken) | Expected | Actual | Result | Corrective Action |
| 1 | Hover over the menu items. | Background colour should change. | Background colour changed. | PASS |  |

You can obtain the testing template document from VLE

Task 5: Uploading & Demonstrating Your Website (AA4.2 — 7 marks, SE4 . 3 —10 marks, SE44-. 10 marks)

1. Uploading Your Website (AA4.2 — 7 marks)
   * Upload your website to a free hosting service such as GitHub Pages
   * Provide in your documentation:
   * Screenshots of the upload process (4 marks)
   * A screenshot of the live website in a browser (1 mark) o The URL of the website (2 marks)
2. Improving Cross-Browser Compatibility (SE4.3 — 10 marks)
   * Use CSS media queries to make the site responsive:
   * on a mobile viewport (less than 600px width) the portfolio images and their descriptions are to be displayed one under the other (one image per line); (4 marks) o and on larger viewports multiple image/description pairs are to be displayed near each other.

(4 marks) o The menu must display vertical on mobile viewport and horizontal otherwise (2 marks).

1. Improving Website Usability (SE4.4 — 10 marks)
   * Improve usability and accessibility:
   * All images must have alt text (2 marks) o Label elements must be properly used in the form (2marks) o Add button to take the user to the top of the screen on mobile viewport (2 mark) o Test the website on at least two browsers and document the test with screenshots (2 marks). o Avoid unnecessary <div> and <span> usage where semantic elements are more appropriate, e.g. page headers, navigation, main content, sections, footers, etc. (2 marks)

### Submission Requirements

* Submit a soft copy of all files in a ZIP file named name\_surname\_c/ass.Z/P via VLE/Turnitin, e.g. john\_borg\_4.1A.ZlP
* Include a Word document with: o test cases o a reference to the jQuery plugin used o Screenshots of the deployment process o URL of your deployed website o Screenshots of testing the website on at least 2 different browsers and document any issues  In your Word document make sure to clearly indicate which Task and section from the assignment brief you are answering.
* Ensure your work is original (no Al-generated code is allowed).

### Marking Scheme - Personal Portfolio Website

|  |  |  |
| --- | --- | --- |
| Implements JQuery event-driven functionality (e.g., click, hover, toggleClass) | 3 |  |
| Functionality is correctly applied and enhances interactivity | 2 |  |

Task 1: Structuring & Styling the Website (AA2.2 — 7 Marks)

|  |  |  |
| --- | --- | --- |
| Assessment Criteria | Maximum Marks | Marks  Awarded |
| Layout is consistent across all pages  Navigation menu is correctly implemented and appears on all pages  Hover effect applied to the navigation menu  Website styling is applied correctly using an external CSS file  Website files are properly organised into sub-folders | 2  2  1  1  1 |  |

Task 2: Adding Interactivity with JavaScript & jQuery (KIJ3 . 3 -5 Marks, 1<1.13 4

Marks, AA3.1- 7 Marks)

1. JQuery Functions & Events (KU3 . 3-5 Marks)

|  |  |  |
| --- | --- | --- |
|  | Maximum Marks | Marks  Awarded |

1. JQuery Plugin (KIJ3.4 — 5 Marks)

|  |  |  |
| --- | --- | --- |
|  | Maximum Marks | Marks  Awarded |
| Correctly integrates a jQuery plugin (e.g., image gallery, carousel)  Provides a reference to the chosen jQuery plugin | 4  1 |  |

1. JavaScript Functionality (AA3.1 — 7 Marks)

|  |  |  |
| --- | --- | --- |
|  | Maximum Marks | Marks  Awarded |
| "View More" button in Portfolio page reveals additional content when clicked | 4 |  |
| "Surprise Me" button in About Me page displays a random fun fact | 3 |  |

Task 3: Contact Form with Validation (KU3 . 2-5 Marks)

|  |  |  |
| --- | --- | --- |
|  | Maximum Marks | Marks  Awarded |
| Form includes Name, Email, Contact Number, Message fields and a working Send button  Validation using jQuery ensures fields are correctly filled  Alert message properly displayed if the form is valid | 1  3  1 |  |

Task 4: Website Testing (AA4 . 1 — 7 Marks)

|  |  |  |
| --- | --- | --- |
|  | Maximum Marks | Marks  Awarded |
| Two interactive features are correctly tested using a structured test plan | 4 |  |
| Test cases are properly documented with expected vs actual results | 3 |  |

Task 5: IJploading & Demonstrating Website (AA4 . 2 - 7 Marks, SE4.3 - 10 Marks,

|  |  |  |
| --- | --- | --- |
| Media query for mobile viewport (less than 600px) correctly applied  Media query for larger viewports correctly applied | 4  4 |  |

|  |  |  |
| --- | --- | --- |
|  | Maximum Marks | Marks  Awarded |

SE4.4 -10 Marks)

1. Uploading Website (AA4.2 — 7 Marks)

|  |  |
| --- | --- |
|  | Maximum Marks |

Marks

Awarded

|  |  |  |
| --- | --- | --- |
| Website is successfully uploaded to a free hosting service (e.g., GitHub Pages)  Screenshot of the upload process is provided  Live URL of the website is submitted | 4  1  2 |  |

1. Improving Cross-Browser Compatibility (SE4 . 3- 10 Marks)

|  |  |  |
| --- | --- | --- |
| Navigation menu displays vertically on mobile and horizontally on desktop | 2 |  |

1. Improving Website Usability & Accessibility (SE4 . 4- 10 Marks)

|  |  |  |
| --- | --- | --- |
|  | Maximum Marks | Marks  Awarded |
| All images include meaningful alt text  All form fields correctly use < label > elements for accessibility  Back to top button added for mobile users  Website is tested on at least two different browsers, and results are documented  Semantic HTML is used instead of unnecessary and  < span>S | 2  2  2  2  2 |  |

Total Marks: 63

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