Solent University
Coursework Assessment Brief

Assessment Details

Module Title:	Web Technologies
Module Code:	QHO431
Module Leader:	Muhammad Ibrahim
Level:	4
Assessment Title:	Online Learning Platform
Assessment Number:	1
Assessment Type:	Software Artefact with Supporting Documentation
Restrictions on Time/Word Count:	Final software should not exceed the requirements outlined in this brief. Additional features are not acknowledged. Supporting document should not exceed 1000 words.
Consequence of not meeting time/word count limit:	It is essential that assignments keep within the time/word count limit stated above. Any work beyond the maximum time/word length permitted will be disregarded and not accounted for in the final grade.
Individual/Group:	Individual
If a group	N/A
Assessment Weighting:	100%
Issue Date:	20/03/2025
Hand In Date:	Tuesday, 10 June 2025, 4:00 PM
Planned Feedback Date:	Within 20 <u>working</u> days
Mode of Submission:	on-line Only FINAL submissions will be accepted. DRAFT submissions will not be considered an attempt and will not be marked.
Anonymous Marking	This assessment: Will be marked anonymously

Assessment Task

The Scenario

You have been asked to develop an Online Learning Platform that provides students with access to educational resources, course details, and instructor information.

The system should allow students to view available courses, see instructor profiles, and submit queries through a contact form. The website will act as an informational and support portal rather than an actual learning management system (LMS).

The interface should be well-structured, easy to navigate, and visually appealing to both students and instructors.

There are some core requirements that this website must have (at absolute minimum):
- Course Listings – A page displaying available courses with details such as course name, instructor, and duration.
- Instructor Profiles – A section showcasing instructors with their bio, subjects taught, and contact details.
- Live Sessions & Special Events Schedule – The platform should clearly display the schedule for live sessions and special course-related events (e.g., "Live Q&A sessions with instructors every Monday at 6 PM" or "Special guest lecture on Web Technologies – 15th March 2025 at 2 PM").
- FAQ Page – A page answering common questions students may have about the platform.
- Contact Form – A simple form that allows users to submit queries, storing submissions in the database.

Additional notes:

The theme and layout are **up to you**, but the platform should be user-friendly and visually appealing, ensuring easy access to information.

Consider using structured cards for courses and instructors, making the information more accessible.

In other words, you have creative freedom over the content and look of the website, as long as it is appropriate.

Tasks

There are two elements to this assessment:

- A website – based on the above scenario.

- Supporting documentation – To be submitted as a word or pdf document alongside the website (see the 'Supporting Documentation' section below)

The Website

The main element of this assessment is the development of a website based on the scenario (see previous page).

I have provided detailed grading criteria (page 5) which will state what the website must do to achieve the different grade levels.

You must only use the following to develop this website:
- HTML
- CSS
- JavaScript
- Node JS ○ Express ○ Sqlite3 ○ EJS

Any technologies that were not covered in this module will not be counted and any features developed using them will not be considered during marking.
(Bootstrap and jQuery, whilst mentioned in the unit, are not to be used)

Supporting Documentation

This will be a brief and concise document that will be written after you have completed your website. It should detail the following:
- Proof that your website conforms to W3C standards (use the online validator).
- Pick one feature of the website (preferably one involving the database) and explain how it works, with particular emphasis on explaining what aspects are client-side and what is server-side.
- Legal and ethical and accessibility considerations o What legal considerations have been made? (Sourcing images from websites like Pexels for example) o What makes the website accessible? (i.e. alt text on images).

- (Where applicable) – What security considerations have been made.
- A rough ERD diagram should be provided to show the database structure.
- If you have used version control (i.e. Git/GitHub) you must declare it here by providing a screenshot of your commit history. Your GitHub username must be fully visible in the screenshot.
- If you have used any AI tools to aid you with the development of this website, you must be fully transparent with this. You are expected to document any usage of AI tools including:
  - What AI tools were used.
  - What prompts were entered into the tool.
  - What answers you received back from the tool.
  - How you modified and integrated the answer into your work.

What you should submit

You will need to upload **two** files to Solent Online learning:

- A **.zip** file containing your web project.
- word document or PDF containing the supporting documentation.
- The .zip file and the word/pdf document should be uploaded as separate files.

Attention!

To speed up the marking process, it would be helpful if you:

- Use your student ID as the name for your submitted files.
  For example, if your student ID is 123456 then you should submit
  - a .zip file called 123456.zip
  - either a word document or a pdf called 123456.docx or 123456.pdf respectively.
- Please use port number 5000.
- When the marker downloads your submission, they will do the following to make it run – You should ensure that this will work:
  - Unzip the zip file. ○ Open the now unzipped project folder in VSCode. ○ In the terminal run: npm install. ○ In the terminal run: node index.mjs
  - The marker should now be able to view the website by going to http://localhost:5000

The grading criteria can be found on the next page. Please study it (and the 'what you should submit' section above) thoroughly before submitting your work for grading **Grading Criteria**

Here is what the website needs to do to:

To achieve a grade between 0% - 39%

<u>Any</u> of the following will result in a non-passing grade:

The submission does not run in a node environment, or the features are not accessible using custom URLs

- The website uses unapproved technologies that are not in line with those listed on page 3 of this document.

- The website has little to no layout

- Very poor practice has been demonstrated. o i.e. using deprecated HTML tags that style the page rather than CSS

- The requirements (listed in the scenario) have not been met and/or the criteria for a passing grade (below) have not been met.

- The submitted website is very similar to a class task – has perhaps been slightly restyled or just given different content.

- No client-side JavaScript has been added to the website at all

- No supporting documentation has been submitted

- A .zip file containing the website was not submitted

- The supporting documentation is off topic or does not follow the points requested in the 'supporting documentation' section of this document.

- The supporting documentation must be submitted outside of the .zip file and must generate a Turnitin report.

- The use of bad, rude, or offensive language/imagery. This includes its usage as 'filler text.'

- Lack of professionalism – Similar to the previous point. Attempts to prank the marker, redirect them to unrelated material, or otherwise hinder them from carrying out their duties.

- Evidence of plagiarism or collusion

To achieve a grade between 40% - 49%

The website should:

Meet all the requirements listed in the Scenario.

- Have a basic layout.

- Include some basic client-side JavaScript functionality.

- A basic Express app has been set up using Node JS. The website should be navigable using routes. Templating should be used where needed.

- At least one part of the website retrieves information from the database (i.e., line up)

- Mostly conform to W3C standards.

- An up-to-date package.json file has been provided.

- All functionalities should be easy to navigate to. Content that cannot be navigated to by browsing the website or content that is behind broken links will not be considered.

- The homepage should load from the default route (i.e., the marker should be able to go to http://localhost:5000 and the home page will load)

- Supporting documentation has been submitted and covers the points mentioned on page 3 of this document (supporting documentation section)

To achieve a grade between 50% - 59%

In addition to all previous criteria, the website should:

- Fully conform to W3C Standards

- Be fully responsive to different devices and adjust well to different screen sizes. Media queries should be demonstrated.

- Work on different browsers, specifically Chrome, Firefox and Edge

- The form (as required in the scenario) should have some simple validation – performed by a JavaScript

- Retrieve data from an SQLite database and display it on the page.

- The **course listings table** and an **instructor profiles** information should be retrieved from the database

- The contact us form, when submitted, should store the information in the database.

- Your database file has been provided in the project folder.
  This is important! If you don't include it then the marker cannot connect to your database, which means your database won't work on their machine. If it does not work, then the 50-59% criteria are not met

- General good practice should be observed, including but not limited to:
  - an organised folder structure with images, styles and scripts separated appropriately
  - Using stylesheets appropriately and not repeating code by having an individual stylesheet for each page.

- Supporting documentation should note what security considerations have been made when developing the website.

To achieve a grade between 60% - 69%

In addition to all previous criteria, the website should:

- In general, the website should not break. There should not be errors in the developer console (on the browser or in node) as you navigate the website or use features (including the ones below)

- An additional page should be created for an activity that you should come up with. This 'activity' will be interactive and involve JavaScript. It might make your life easier if you develop this for a younger audience.
  - This should be original and not taken from the internet. ○ Can be any kind of activity (i.e., a guess the picture game where you have an image covered up by squares that vanish when you click them etc.) but should be related to one of the themed areas of the park.

- Supporting documentation is strengthened by further reading (i.e. into accessibility or security issues)

To achieve a grade between 70% - 89%

In addition to all previous criteria, the website should:

- Meet all previous criteria (listed above) with no exceptions

- Look professional (would be publishable for its intended purpose) and conform to professional standards – this includes the design of the database.

- Include a search feature that demonstrates AJAX

- Include AJAX for at least one other feature.

- The feature you pick to explain client-side/server-side elements in your supporting documentation, should be one that includes AJAX as well as a database connection.

To achieve a grade between 90% - 100%

In addition to all previous criteria, the website should:

- Meet all previous criteria (listed above) with no exceptions

- Should have AJAX throughout – especially where database connections are involved

- Provides an additional feature that allows the park to promote the many events that they hold each year. This can vary from concerts being held on their grounds to things like Halloween scare nights.
  By default, the website should display this year's events. However, the user should also be able to view what past events have occurred.
  The user should be able to select a year and then view the events for the given year.
  Additionally, the user should be able to apply filters to the listed events to narrow them down a little 'i.e. select events categorised as concerts.'
  Upon clicking a listed event, the user should be taken to a page that provides information about said event – this page should make it clear to users if the event has already occurred. ○ This should be fully database driven and utilise good database practice and design. ○ AJAX should be used extensively for this feature

Use of AI in this Assessment

Generative AI is permitted at Solent University under specific conditions and must continue to follow the university's rules around Academic Misconduct and the AI and Academic Integrity policy. In this assessment, you are allowed to use AI for the following tasks:

You are permitted to use Generative AI to assist with small individual chucks of this assessment. However, using AI to generate large amounts of the assessment, or entire features is strictly forbidden. Please note, you will be expected to document your use of AI extensively in the other assessment.

AI and Academic Integrity Policy

Learning Outcomes

This assessment will enable you to demonstrate in full or in part your fulfilment of the following learning outcomes identified in the Module Descriptor:

Living CV

As part of the University's Work Ready, Future Ready strategy, you will be expected to build a professional, Living CV as you successfully engage and pass each module of your degree.

The Living CV outputs evidenced on completion of this assessment are:
1. Apply HTML, CSS, JavaScript, NodeJS, JSON, SQL, and relational databases to develop a website 2. Develop a simple full stack web application that conforms to W3C standards.

Please add these to your CV via the Living CV builder platform on Solent Futures Online Solent Futures Online

Important Information

Solent University Academic Regulations 2024-25

Late Submissions

You are reminded that:

i.   If this assessment is submitted late i.e. within 7 calendar days of the submission deadline, the mark will be capped at 40% if a pass mark is achieved.

ii.   If this assessment is submitted later than 7 calendar days after the submission deadline, the work will be regarded as a non-submission and will be awarded a zero;

iii.   If this assessment is being submitted as a referred piece of work, then it must be submitted by the deadline date; any Refer assessment submitted late will be regarded as a non-submission and will be awarded a zero.

Assessment regulations

Extenuating Circumstances

The University's Extenuating Circumstances (EC) procedure is in place if there are genuine short term exceptional circumstances that may prevent you submitting an assessment. You are able to self-certify for up to two assessment dates in any semester without supporting evidence for an extension of up to seven calendar days for coursework or to defer an exam to the resit period.

Alternatively, if you are not 'fit to study' (or you have used up your two self-certification opportunities), you can request:

- an extension to the submission deadline of 7 calendar days, or
- a request to submit the assessment at the next opportunity, i.e. the resit period (as a Defer without capping of the grade).

In both instances you must submit an EC application with relevant evidence. If accepted under the university regulations there will be no academic penalty for late submission or non-submission dependent on what is requested. You are reminded that EC covers only short-term issues (20 working days) and that if you experience longer term matters that impact on your learning then you must contact the Student Hub for advice.

Please find a link to the EC policy below:

Extenuating Circumstances

Academic Misconduct

Any submission must be your own work and, where facts or ideas have been used from other sources, these sources must be appropriately referenced. The University's Academic Regulations includes the definitions of all practices that will be deemed to constitute academic misconduct. You should check this link before submitting your work.

Procedures relating to student academic misconduct are given below:

Academic Misconduct

Ethics Policy

The work being carried out must be in compliance with the university Ethics Policy. Where there is an ethical issue, as specified within the Ethics Policy, then you will need an ethics release or ethics approval prior to the start of the project.

The Ethics Policy is contained within Section 2S of the Academic Handbook:

Ethics Policy

Grade marking

The University uses an numeric grade scale for the marking of assessments. More detailed information on grade marking and the grade scale can be found on the portal and in the Student Handbook.

Grade Marking Scale

Guidance for online submission through Solent Online Learning (SOL)