Solent University
Coursework Assessment Brief

Assessment Details

Module Title:	Web Technologies
Module Code:	COM419
Module Leader:	Darren Cunningham
Level:	4
Assessment Title:	Theme Park Website
Assessment Number:	1
Assessment Type:	Software Artefact with Supporting Documentation
Restrictions on Time/Word Count:	No more than 1500 words (supporting documentation)
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
Assessment Weighting:	100%
Issue Date:	21st March 2024
Hand In Date:	10th May 2024
Planned Feedback Date:	4 weeks after deadline
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

Scenario

<u>The Scenario</u>

You have been asked to develop a marketing website for a new theme park.
The owners are giving you a lot of freedom in terms of branding and design, just make sure the website is themed appropriately.

This is a promotional website – it is not a ticket selling website! Thus, you need not concern yourself with the selling or booking of tickets.

There are some core requirements that this website must have (at absolute minimum):
- Areas – Like most theme parks, it will have multiple themed areas – each of which have rides and attractions (relating to the areas theme) within. These areas should be represented on the website.
- Rides/attractions – As stated above, each of the themed areas will be made up of rides and attractions. You should ensure that rides are featured appropriately on the website.
- The park is open every day, April-October from 9am to 7pm. This should be VERY clearly displayed on the website.
- An FAQ page – Just a page to answer likely questions people may have.
- A contact us page – this must have an appropriate HTML form on it.

Additional notes

Regarding the theme and layout of this website, that is up to you. Style your website as you feel appropriate – in the way that you envision when you imagine a theme park. Consider the audience and how that impacts the themes.

For example:
- Thorpe Park – has a focus on thrill rides.
- Paultons Park – Family oriented and has themed areas for young children (i.e. Peppa Pig World) and more universal areas (i.e. Tornado Springs)
- Chessington World of Adventures – has themed areas full of rides (i.e. Wild Woods) and a zoo/Sealife area.

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 grades.

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
  - What legal considerations have been made? (Sourcing images from websites like Pexels for example)
  - 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.
- A 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 and 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.js
  - The marker should now be able to view the website by going to http://localhost:5000

Grading Criteria

Here is what the website needs to do to:

To Achieve an F Grade

<u>Any</u> of the following will result in an F (or S) grade being awarded:

- 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 the previous page.

- The website has little to no layout

- Very poor practice has been demonstrated.
    - 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 the D 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 brief.

- 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 D Grade

To achieve a D grade, 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 C Grade

To achieve a C grade, (in addition to the D 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.

- o The area and ride/attraction 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 C criteria is not met

- General good practice should be observed, including but not limited to:
  - o an organised folder structure with images, styles and scripts separated appropriately
  - o 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 B Grade

To achieve a B grade, (in addition to the C 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.
  - o This should be original and not taken from the internet.
  - o 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. in to accessibility or security issues)

To Achieve an A4 or A3 Grade

To achieve an A4 or A3 grade, the website should:

- Meet the D, C and B 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 an A2 or A1 Grade

To achieve an A2 or A1 grade, the website should:

- Meet the D, C, B and A4/A3 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.
    o This should be fully database driven and utilise good database practice and design.
    o AJAX should be used extensively for this feature.

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 2023-24](#)

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 alpha numeric grade scale for the marking of assessments. Unless you have been specifically informed otherwise your marked assignment will be awarded a letter/number grade. 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)

Online Submission