



Abertay University

**School of Design and Informatics
Session 2024**

HEP504: Web Development

Unit 1 Portfolio

Learning Outcomes Assessed:

- L01.** Plan and implement an effective web application supporting database transactions using a server-based database management system.
- L02.** Apply JavaScript, libraries, and frameworks to create effective user interfaces within an appropriate development practice and methodology.
- L03.** Critically evaluate legal, security, design and development issues in building complex database driven internet solutions.

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Assessment Overview

The assessment for this module takes the form of a portfolio of work which demonstrates the skills you have developed and knowledge you have gained in this module. The portfolio will consist of two practical assessments, each with an accompanying report.

The table below is an overview of the two practical assessments for this module. The individual assessment briefs should be consulted for instructions and requirements for each practical submission. These can be found under the “Assignments” tab on Canvas.

Release Week	Practical Assessment Name	Content	Due	Weighting
Week 1	Practical Assessment1 Tech News Web Page	Using HTML and CSS to create a Tech News Web Page that contains images and news articles	Monday of week 4 at 12 noon	25%
Week 1	Practical Assessment2 Final Project	This assessment will require you to use all that you have learned throughout this module to create a Social Media Website complete with user profile creation, password encryption, and interactive content, that will combine design with usability standards and principles.	Monday of week 8 at 12 noon	75%

Practical Work Format

Both practical submissions consist of three components. Students should consult both assignment briefs for details before starting them; however, common requirements for practical submissions are listed below.

1. **Report:** The report should be submitted in Word or PDF format.
2. **URL:** You should provide the URL to your website in your report.
3. **Artefacts:** This can include source code, script, images, screenshots etc.

When submitting a report alongside practical work, students should ensure that it efficiently describes the work they have undertaken. Reports should not exceed more than the word count specified in the practical brief with a margin of +/- 10% excluding the Reference and Appendix sections.

Do NOT write in the 1st person narrative. You should use a formal writing style for your report. See [Abertay report writing guide](#) for further details.

Report Format

In general, the reports for the two practical assessments should include the following sections, however the individual assessment briefs should be consulted for requirements, and you should feel free to add other sections as you see fit.

- **Title Page**
This first page should include the student's name, student number, and the practical assessment name.
- **Introduction**
Briefly introduce the work that has been undertaken, the aim of the work, and how it meets the practical assessment brief.
- **URL**
A working URL to the website for the assessment should be provided in this section.
- **Procedure/Methodology**
This section should explain in detail what work has been undertaken to address the practical assessment requirements and justify the chosen approach.
Include any relevant code, screenshots, charts, diagrams, or pictures, with links to appendices if introducing these in the body of your report interrupts the flow of reading. These should be clearly labelled and referenced in the body of the report.
- **Security & Legal Aspects**
This section should detail any and all security practices that were implemented or considered to make the web page secure.
Discuss any legal considerations and requirements that should be considered for the web page.
- **Conclusion**
Critically evaluate the project and discuss how well it met the assessment brief aims identified in the introduction section of the report.
- **References**
All sources should be written in the Harvard Referencing Style and included in this section.
All references should be cited where applicable in the text of your report.
References are not included in the word count.

Grades

The final grade for this module is determined through a portfolio of work that you will generate by completing the two practical assessments detailed above in the Assessment Overview section.

A rubric for each of the assessments will be made available on Canvas alongside the practical assessment's briefs.

A description of each grade band can be found in the Abertay Literal Grading Scheme. The weightings for each component of the portfolio can be found in the Assessment Overview section of this document.

Submissions

Submission instructions detailing what should be submitted for each of the two practical assessments can be found within their respective briefs.

Practical submissions should be submitted on their individual submission dates. The system is likely to be busy at the time of submission. **For this reason, you are advised to leave plenty of time (at least an hour before the deadline). If the Canvas system records a submission time after the deadline, then the work will be treated as a late submission.**

Mitigating Circumstances

If you have Mitigating Circumstances (see mitigating circumstances policy) that prevent you from completing or submitting your work on or before the deadline, you should contact the Module Leader via HEP504@abertay.ac.uk **before** the submission date. Your Module Leader will advise if extra time is possible, or direct you to the self-certification procedure if applicable.

Late Submission

Submissions made after their deadlines (excluding those with mitigating circumstances) will be deemed as a late submission and will incur a penalty, including the possibility of the work being awarded a non-submission (NS) grade.

Late coursework will be adjusted on a sliding scale with one grade deducted (e.g. from B to C+) for each day late for the first two days, after which the grade awarded will be NS.

Feedback

Assessment feedback will be provided 15 working days after the submission deadline.

Plagiarism

Please see the university regulations on plagiarism. Students are encouraged to have discussions; however, **only original work should be submitted**. Plagiarism may result in a zero mark being recorded for the coursework and may result in further action being taken.

Please see the University regulations, codes & policies:

<https://intranet.abertay.ac.uk/library/referencing/avoidingplagiarism/>

Students must specify clearly where they obtain material. References should be included as code comments or in accompanying documentation. You must also check and comply with any copyright statements on websites that you use for source material.

Use of AI in this Module

Use of Generative AI in this module:

Please Note: The stipulations below apply only to this module, you will normally be given specific guidance regarding Generative AI for each module that you study and should not assume that the use of AI is allowed if it is not specified.

Generative AI (GAI), such as ChatGPT, Copilot, Gemini, and others, can be used to aid code debugging, report writing, language and grammar correction. In this module we will integrate AI literacy focusing on its application in web development.

How Generative AI should be used in this module.

You may use Generative AI to:

- a. understand concepts or questions related to lectures, tutorials, practicals, or the assessments for this module.
- b. get suggestions for code improvement, refining ideas, report structure, proofreading, aiding grammar and spelling.
- c. assist in debugging code.
- d. generate images to use as website content in submissions.

You may NOT use Generative AI to:

- a) generate code for direct use in your assessment.
- b) generate content for the discussion board.
- c) generate answers to questions posed in briefs or other text for your reports.
- d) generate content for articles as they should be sourced from the web.

Any evidence of AI use outside or contrary to the guidelines above will be referred to the Student Disciplinary Officer within the School and may result in Academic Misconduct charge.

You may use specific tools, such as Grammarly for aiding Grammar and Structure.

- a) It is recommended that you keep a record of your interaction with these tools.
- b) It is recommended that you have evidence of drafts of your work.

You should adhere to the following:

1. Always reference AI use: Consider AI like any other source. If AI helps draft or edit a report or other work, reference it appropriately.
2. Record Interaction: When using ChatGPT or a similar tool, include a transcript or screenshots of your interaction in an appendix (for reports).
3. Summary: Include a summary in an appendix stating how you used the AI.
4. In-text Citation for AI: For each paragraph aided by AI, include an in-text citation.
5. Own thoughts: The majority of words, insights and arguments in your work should be your own. Using AI for proofreading or structure is acceptable, but the core ideas must be original.
6. Be Responsible: Use AI responsibly to enhance your work. Critical thinking and creativity should come from you. Speak with lecturer if you are unsure.

Additional Points to Consider:

1. Ethical AI Usage: When using AI in subject ensure the data and methods you employ adhere to privacy laws and ethical considerations.
2. Validity of Data: When using AI for data generation or simulation, clearly state the limitations and potential biases of the model in your report.
3. Transparency in Team Projects: In the case of team projects, disclose the extent of AI use to your team members.
4. Factual Accuracy: Consider the information generated by AI is factually accurate and scientifically valid. The information generated should be checked against peer-reviewed sources.