

## Assignment Details

Item	Description
Module Title:	Web Development for Information Systems
Module Code:	B9IS109
Module Lecturer (s):	Dinesh Kanajiya
Programme/Cohort:	Master of Science in Information Systems with Computing Postgraduate Diploma in Science in Information Systems with Computing
Method of Assessment:	Project
Percentage (%) Weighting:	85%
MIMLOs being assessed:	1,2,3,4,5
Assessment Number:	1 of 2
Individual/Group:	Group
Issue Date:	<b>23<sup>rd</sup> September 2025</b>
Submission Date:	<b>21<sup>st</sup> December 2025</b>
Feedback Date:	<b>4<sup>th</sup> January 2025</b>
Feedback Strategy:	Moodle

**Total Marks: 100**

**Weighting (85%) Web App (70 marks)**

## Assignment Task

### Description:

The assessment focuses on the student's ability to design, develop, and present a web application using relevant frameworks, technologies, and best practices. The proposed assessment includes two components: a project implementation and a presentation.

### Part 1: Web Development Project (70 Marks)

1. Choose a topic of your interest and propose a web application project that demonstrates your skills in web development for information systems. The project should involve a complete IS solution in the form of a web app or a proof-of-concept system.
2. Conduct thorough research and planning, including the identification of project requirements and objectives.
3. Select a suitable front-end framework that showcases evidence of user-experience design, considering interactivity and visual appeal.
4. Choose appropriate back-end technologies, such as relational or non-relational databases, to support the functionality and data management of your web application.
5. Implement the consumption of web services, demonstrating the integration of external data sources or functionalities.
6. Address security vulnerabilities by incorporating relevant technologies and techniques to ensure data integrity, authentication, and protection against common threats.
7. Utilize JSON/XML formats effectively for data exchange and communication between the front-end and back-end components.



8. Apply design patterns to enhance the maintainability, scalability, and extensibility of your web application.
9. Deploy your web application to a cloud platform, showcasing your ability to manage the deployment process effectively.
10. Compile a comprehensive project report, adhering to high industry standards, with a reflective paragraph describing your learning experience.
11. Upload your project artifacts and source code to a GitHub repository, including the repository URL in your report.

## **Part 2: Report (20 Marks)**

Report must include the following topics:

1. Research and Planning
2. Choice of framework and technologies
3. UX Design
4. Web Service
5. Security threats and Measures
6. Features

## **Part 3: Presentation (10 Marks)**

1. Prepare a visually appealing and well-structured presentation recording (10 to 15 minutes long) to showcase your web application project.
2. Demonstrate the features and functionality of your web app through a live demo, ensuring that the chosen technologies are set up and working correctly.
3. Deliver a concise and engaging presentation, summarizing the research, design choices, implementation process, and key findings.
4. Address questions from the audience confidently and comprehensively, displaying a deep understanding of your project and the technologies used.
5. Ensure the presentation does not involve excessive slide reading, and effectively communicate the content with clarity and enthusiasm.

## **Assessment Guidelines:**

1. Choose a project topic that aligns with your interests and demonstrates your skills in web development for information systems.
2. Conduct thorough research to support your design and implementation decisions, ensuring the use of relevant and up-to-date sources.
3. Develop the web application with attention to completeness, correctness, and usability, considering industry standards and best practices.
4. Demonstrate effective project management skills by adhering to timelines, meeting deliverable requirements, and organizing project artifacts appropriately.
5. Create a high-quality project report that encompasses research, analysis, design, and reflective insights, following industry-level professional standards.
6. Present your project confidently, showcasing your understanding of the chosen

technologies, visual design skills, and ability to engage the audience.

7. Prepare a live demo of your web application to validate its functionality and highlight your chosen technologies.
8. Demonstrate professionalism and attention to detail in both the project report and presentation, ensuring there are no typos or grammatical errors.
9. Submit the project report and deliver the presentation within the specified deadlines.

This assessment task emphasizes the practical application of web development skills, encouraging students to create a complete web application while adhering to industry standards. The presentation component allows students to showcase their work and engage with the audience effectively.

### Group Management

Refer to the College's Group Work Policy, [QAH B.5.2.2.2](#).

Group Sizes:	3-4
Group allocation:	Students choose
Grading approach:	Combination of group and individual grade (>10%, see rubric)
Alternative assessment:	Learners with PMCs that require an alternative assessment must <a href="#">log a ticket</a> for consideration.

### Generative Artificial Intelligence Assessment Scale

Can generative AI be utilised in this assignment?

1	2	3	4	5
NO AI	AI-ASSISTED IDEA GENERATION AND STRUCTURING	AI-ASSISTED EDITING	AI TASK COMPLETION, HUMAN EVALUATION	FULL AI
The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills. <b>AI must not be used at</b>	AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work. <b>No AI content is</b>	AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI. <b>AI can be used, but</b>	AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI generated content and	AI should be used as a 'co-pilot' in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity. <b>You may use AI throughout your</b>

any point during the assessment.	allowed in the final submission.	your original work with no AI content must be provided in an appendix.	evaluating its output. <b>You will use AI to complete specified tasks in your assessment. Any AI created content must be cited.</b>	assessment to support your own work and do not have to specify which content is AI generated

### Grading Criteria

		Evaluative Criteria/Performance Level Descriptors (what does performance at this level look like?)				
Scale <sup>1</sup>	Grade Band	Criterion 1 - "lorem ipsum..."	Criterion 2 - "lorem ipsum..."	Criterion 3 - "lorem ipsum..."	Criterion 4 - "lorem ipsum..."	Criterion 5 - "lorem ipsum..."
Exceptional	90-100%					
Outstanding	80-89%					
Excellent	70-79%					
Very Good	60-69%					
Good	50-59%					
Sufficient	40-49%					
Somewhat/ Unfulfilled	30-39%					
Unfulfilled	0-29%					
MIMLO Alignment (see Module Guide for Minimum Intended Learning Outcomes for Module)						
MIMLO to which criterion is aligned:						

### General Requirements for Students:

1. All assignments must be submitted no later than the stated deadline (date and time).
2. Assignments submitted after the latest deadline specified (including any approved extension deadline) are considered late and penalised according to the [Quality Assurance Handbook \(QAH\) Part B Section 5.2.2.6](#) as follows:
  - a. A penalty of 2 marks will be applied per day or part thereof (including weekends and public holidays) for an ongoing failure to submit beyond the submission deadline.

- b. An examiner has the right to refuse to mark the assignment if the submission instructions have not been observed.
  - c. Where a late assessment is submitted within 14 days of the deadline, and is of a passing standard, the late penalty is capped (such that the minimum grade that can be awarded is 40% for the late submission).
  - d. Where a late assessment is submitted more than 14 days after the deadline, it will receive 0%. The lecturer may, at their discretion, review the submission for feedback.
  - e. Where the assessment is undertaken in a group, the piece of work should be submitted in its complete entirety, and any penalty for late submission incurred applies to all group members.
3. Extensions to assignment submission deadlines will not be granted, other than in exceptional circumstances. To apply for an extension please go to <https://students.dbs.ie/dashboard/SCCM> and open a ticket.
4. All relevant provisions of the Assessment Regulations must be complied with (see [QAH B.5](#)).
  - a. Students are required to refer to the assessment regulations in their Programme Handbook, and on the [Student Website](#).
  - b. Dublin Business School penalises students who engage in academic impropriety (i.e. plagiarism, collusion and/or copying, ghost writing/ essay mills, improper use of Generative Artificial Intelligence software).
    - i. Refer to the College's [Generative AI Guidelines HERE](#) for further information.
  - c. Guides on referencing are available on the Library website: <https://libguides.dbs.ie/referencing>
  - d. Text-matching analysis software is integrated in Moodle to generate a report regarding the degree of text-matching in a submission.
5. Students are required to retain a copy of each assignment submitted, until the issuing of a transcript indicating the mark awarded and the closure of the Appeal period (2 weeks following the release of final results).
  - a. Results can only be appealed following the release of final results, and the Appeal form must be submitted to the Exams Office within the Appeal period.
  - b. An appeal must be based on valid grounds (see the Appeals Policy QAH B.3.5), dissatisfaction with a grade is not sufficient grounds for an appeal.
  - c. Assignments must be appropriately packaged and presented.
  - d. All assignments should be submitted to your subject/course page on Moodle by the deadline date.
  - e. Where a submission involves digital media (i.e formats other than Word, Powerpoint or PDF), it is the submitting students' responsibility to ensure the media is appropriately labelled, fully working and they must retain a copy<sup>2</sup>.
  - f. Components of an assessment which are not included in the final submission cannot normally be subsequently accepted for grading. It is the student's responsibility to ensure their file is uploaded correctly.
  - g. Include an electronic **cover sheet** with the following details to the front of the assignment (see below)



6. Assignments that *breach* the word count requirements will be penalised. *There is a 10% discretion, either way, applicable in terms of word count.*
7. When you submit your assignment you will be asked to click on a button which will declare the following:

*By ticking this box I am confirming that this assignment/exam is all my own work. Any sources used have been referenced.*

*I have read the College rules regarding plagiarism in the QAH Part B Section 3 and understand that penalties will be applied accordingly if work is found not to be my own. All work uploaded is submitted via Ouriginal, whereby a text-matching report will show any similarities with other texts.*

## Assignment Cover Sheet

Please fill out and insert as the first page of any essay-style Assignment.

**Student Name(s) and Number(s) as per student card (s):**

**Programme:**

**Lecturer Name:**

**Module/Subject Title:**

**Assignment Title:**

**No of Words:**

**By submitting this assignment, I am/ we are confirming that:**

- This assignment is all my/our own work;
- Any sources used have been referenced;
- I/we have followed the Generative AI instructions/ scale set out in the Assignment Brief;
- I/we have read the College rules regarding academic integrity in the [QAH Part B Section 3](#), and the [Generative AI Guidelines](#), and understand that penalties will be applied accordingly if work is found not to be my/our own.
- I/we understand that all work uploaded is submitted via Ouriginal, whereby a text-matching report will show any similarities with other texts.

Note: Technical support is available to students between **0830- 2000 hrs (Mon-Fri), 0930-1630 (Sat) only**. There is no technical support after 2000 hrs. It is your responsibility to ensure that you allow time to troubleshoot any technical difficulties by uploading early on the due date.