

COURSEWORK ASSESSMENT ELEMENT

MODULE CODE	SOFT40081
MODULE TITLE	Internet Programming
MODULE LEADER	Dr Temi Alade
COMPONENT	1 of 1
TITLE	E-Commerce Website
LEARNING OUTCOMES ASSESSED	All according to the module spec
WEIGHTING	100% of the overall module mark
DISTRIBUTION DATE	16/01/2023
SUBMISSION DUE DATE	2:30pm UK Time, Tuesday, 14/03/2023. Demonstrations at a schedule lab sessions
SUBMISSION METHOD	NOW Dropbox

NOTES:

1) Work handed in up to five working days late will be given a maximum Grade of Low Third whilst work that arrives more than five working days will be given a mark of zero.

Work will only be accepted beyond the five working day deadline if satisfactory evidence, for example, an NEC is provided. Any issues requiring NEC https://ntu.ac.uk/current_students/resources/student_handbook/appeals/index.html

2) The University views **plagiarism and collusion** as serious academic irregularities and there are a number of different penalties which may be applied to such offences. The [Student Handbook](#) has a section on Academic Irregularities, which outlines the penalties and states that **plagiarism** includes: 'The incorporation of material (**including text, graph, diagrams, videos etc.**) derived from the work (published or unpublished) of another, by unacknowledged quotation, paraphrased imitation or other device in any work submitted for progression towards or for the completion of an award, which in any way suggests that it is the student's own original work. Such work may include printed material in textbooks, journals and material accessible electronically for example from web pages.' **Collusion** includes: "Unauthorised and unacknowledged copying or use of material prepared by another person for use in submitted work. This may be with or without their consent or agreement to the copying or use of their work." If copied with the agreement of the other candidate both parties are considered guilty of Academic Irregularity. **Penalties for Academic irregularities range from capped marks and zero marks to dismissal from the course and termination of studies.**

3) To help you avoid plagiarism and collusion, you are permitted to submit your work **once** to a **separate drop box entitled "Draft report"** to view both the matching score and look at what areas are affected. It is then down to you to make any changes needed. Turnitin cannot say if something has been plagiarised or not. Instead it highlights matches between your text and other Turnitin content. There is no Good or Bad score, it depends on the piece of work. Overall when you look at the work, put yourself in the place of the marker. Is a lot of the work highlighted so it does not really look like the author's work? If so, then you need to work on it some more.

For more help, use these links ([Plagiarism Support](#) and [Turnitin support](#)) to book time with staff and students to help with.

I. Assessment Requirements

Part A (80%): Developing an E-commerce System

This assessment requires that you **design, implement, test and demonstrate** an e-commerce website with at least five pages for a business which intends to promote and sell products or services. The website should be produced using **ASP.NET Core in C#, and other associated technologies (HTML, CSS, JavaScript)**. At a minimum, your website must include the following.

1. Home (**index.html**) consisting of section/article elements describing some applications or benefit of the product to your audience. These should contain one or more images each. The home page should contain a slideshow showcasing key products or deals.
2. Product pages generally promoting each product. Product pages should have a relevant video. (Note that you are not required to create a video file). Customers should be able to search for products (via a search text) or browse categories of products. In order to purchase a product, the customer will add it to a basket. The status of a customer's basket should be indicated on all pages. When the user elects to edit their basket, and/or check-out, this should occur on a new page. The new page should calculate and display the total order and enable customers to remove and update items. (Note that you are not required to process payment).
3. A login link/form should be available on every page to authenticate customers, enabling customers to select the login (or register) facility as only registered customers can check-out. Account details must be stored in a database
4. An Admin page where only authenticated administrators can edit categories and products. This should include the ability to upload/replace product images.
5. A Contact and or About Us page which provides customers with information about the company, what it does, the owners, where it is located, etc.

The overall design is up to you, and all page content should be meaningful (no dummy text). The user-interface and interaction design should follow best practice for ecommerce systems. Consideration should be given to the use of the system on Mobile Devices. The application should be prepared in **ASP.NET Core in C#, together with other associated technologies (HTML, CSS, JavaScript)**. It should not be possible to inject HTML, Script or SQL and the possible threat of XSS attacks should be mitigated.

Part B (20%):

Your work will be **accompanied with a brief report** explaining your application design process, starting with the planning phases which would generally include research into the purpose of the site, website structure (using site map, mock-ups or annotated wireframe, mood board for a desktop, laptop and mobile device) to meet the requirements of the website.

You are required to explain what you have achieved (features) and how (implementation), where you experienced problems and what you were unable to complete. All implemented features should be documented in this way. The report should contain any access information that might be required for your e-commerce system.

Your report will have **a maximum of 2000 words** excluding code and references.

Submission: by 2:30pm on Tuesday 14th March 2023.

Your work should be submitted to the module Dropbox as a single zipped file (.zip format only) containing your website folders and files, and your report (in WORD or PDF format).

Demonstration

You will be required to individually demonstrate your work to the module Lecturers in a lab session after submission, where feedback will be given. A timetable for this will be published at a later date. **Your work will not be marked unless you demonstrate it.** Not being able to demonstrate that the submitted coursework is your own work could result in failing this module even if the submitted work is acceptable on its own.

Website Ideas

- A car rental website
- A hotel room reservation website
- A wedding dress rental website
- A party venue reservation system
- A music instrument rental website
- A bouncy castle rental website
- Any e-commerce website

Additional Requirements and Deliverables for a Exceptional Level Performance

- **Statistics:** Administrators can print basic database reports and charts, such as total number of sales by month, monthly total revenue from sales, number of users registered in a particular month, etc.
- **Ratings:** Members can provide a rating and a review for an item they have purchased/rented.
- **View of ratings:** Visitors can view ratings about items they wish to buy. Also, for each item, users can view reviews and summary statistics based on user ratings.
- **Preferences:** Members can get tailored recommendations. For example, recommendations based on previous purchases, search history, or registered preferences. Generate your own algorithm for providing recommendations based on information about the customer.
- **Sales survey:** Members who have completed a purchase can be invited to complete an online satisfaction survey about the store.
- **Survey statistics:** Administrators can view statistics about survey responses.
- **User friendliness and accessibility:** Website is user friendly and accessible.
- **Use of technologies beyond those illustrated in the module.**

II. Grade Based Assessment (GBA) & Assessment Criteria

Criteria	Distinction				Commendation			Pass			Fail			Zero
	Excp.	High	Mid	Low	High	Mid	Low	High	Mid	Low	Marginal	Mid	Low	
	16	15	14	13	12	11	10	9	8	7	6	4	2	
Part A: Website Development including demo (80%)	Excellent implementation of authentication, registration, product browsing/searching, administration and basket shopping functionalities				A very good implementation of the basic authentication, registration, product browsing/searching, administration and basket shopping functionalities.			Good attempt at most of the <i>basic functionalities</i> (authentication, registration, product browsing/searching, administration and basket shopping).			Poor implementation with little or no attempt at authentication, registration, product browsing/searching, administration and basket shopping functionalities.			No submission or no relevance to the required tasks.
	Excellent presentation with a creative layout and adherence to general web design principles including excellent and easy navigation through the website. Excellent responsive experiences that work and adjust to different display capabilities.				Good presentation with a creative layout and adherence to general web design principles including good and easy navigation through the website. Good responsive experiences that work and adjust to some display capabilities.			Reasonable presentation and layout with an attempt at adhering to general web design principles. The page makes good use of themes, validation, CSS, and looks professional.			Poor presentation with little or no consideration of general web design principles. Ease of navigation though the website is poor. No consideration for the use of the system on mobile devices.			
	A good attempt at some additional functionalities.				An attempt at some additional functionalities			Good code comments across some pages			Little or no code and code comments.			
	Comprehensive code comments				Good code commenting throughout.									
	*Exceptional Excellent implementation of 3 or more additional requirements or other advanced features.				*High Commendation Good implementation of 2 or more additional requirements or other advanced features.									
Part B: Report (20%)	Excellent documentation with clear prototypes of the website. Prototyping achieved using a wide range of planning tools, such as sitemaps, wireframes, mood boards, etc. with eloquent annotations.				Very good documentation with clear prototypes of the website. Prototyping achieved using planning tools, such as sitemaps, wireframes, mood boards, etc. with clear annotations.			Good documentation with some prototypes of the website. Prototyping achieved using some planning tools.			The documentation shows little or no planning or prototyping of the website. No references or there are major issues with referencing.			No submission or no relevance to the required tasks.
	Comprehensive explanation of completed sections of the work and how they were achieved, including challenges encountered.				Clear and Informative explanation of completed sections of the work and how they were achieved, including challenges encountered.			Good explanation of completed sections of the work and how they were achieved, including challenges encountered.						
	Excellent analysis including utilisation of academic sources.				Very good analysis including utilisation of academic sources.			References are either missing, not properly used or there can be some major issues with its formats.						

III. Feedback Opportunities

Formative (Whilst you're working on the coursework) and Summative (After you've submitted the coursework)

IV. Resources that may be useful

Referencing styles please use Harvard as detailed [here](#)

Guide to planning your time [here](#) and an automated planner [here](#)

Further guidance on avoiding cheating [is here](#)

Remember to use Outlook or physical calendars to block out time between lectures and labs to work on this coursework.

V. Moderation

All assessments are subject to a two-stage moderation process. Firstly, any details related to the assessment (e.g., clarity of information and the assessment criteria) are considered by an independent person (usually a member of the module team). Secondly, the grades awarded are considered by the module team to check for consistency and fairness across the cohort for the piece of work submitted.

VI. Aspects for Professional Development

The report itself covers examples of: Writing a scientific-style report, researching existing literature, referencing appropriately, construction and proper labelling of figures. Many of these are useful transferable skills for employment applications or your Skills Portfolio. Similarly, the practical class protocols provide several examples appropriate for use in the Skills Portfolio as bioscience (i.e. subject-specific) skills.