	UCLan Coursework Assessment Brief	2021-2022
	Module Title: Web Application Development	
School of Psychology and Computer Science	Module Code: CO4752	Level 7
	CO4752 Assessment - CW1	This assessment is worth 50% of the overall module mark

THE BRIEF/INSTRUCTIONS

This assignment accounts for 50% of the overall mark for this module.

Learning Outcomes covered in this assignment:

LO1	Critically evaluate web technologies, tools and platforms	Yes
LO2	Apply relevant tools and techniques to design and develop a Web application, justifying choices made with reference to underpinning theories	Yes
LO3	Evaluate websites according to the current industry standards of development, usability and accessibility.	Yes

You should complete the work individually.

Task Scenario:

You have been hired to design, develop and test a new e-banking application. The e-banking application gives customers access to their standard current and savings accounts but also allows for transactions in foreign currencies. The e-banking app should enable users to:

1.   Access their accounts using one of the following methods:
         A valid account number and a six-digit PIN (preferred)
        A valid username and password
2.   Register a new account (First Name, Last Name, username, password six-digit PIN, account number)
3.   Perform the following tasks in their accounts:
                View an account balance
                Transfer funds from your current account to a savings account and back (when sufficient funds available)
                Make a payment to a different account (represented as another user)
                print an account transaction statement (on screen) (Last week, two weeks, month or custom period)
4.   The default currency is GBP, but the user can select to translate current funds in Euro (EUR) and US Dollar (USD). They still should be able to perform the above tasks with either EUR or USD.
5.   The currency exchange rates will be provided by your own Restful service called currency.
6.   Use the .NET framework and the MVC (Model - View - Controller) software architectural pattern
7.   Contain a local database (MySQL) to keep data and transaction records
8.   The currency RESTful service should be based on the Web API architectural pattern. You should include recent currency data in the database.
9.   Implement a realistic and easy-to-understand user interface that should be accessible from multiple devices (responsive design).
10.   The UI should have error-checking features to avoid user error

Task details:

1.   Design and develop the e-banking prototype. You can use either a front-end development framework (e.g., React, Angular) or a prototyping tool that does not require coding.

Note: If you develop the prototype using a framework you will be able to use it in coursework 2.

2.   Carry out a usability evaluation of the e-banking prototype. The evaluation should include:
        Asking 6 users to use the prototype and provide feedback
        Feedback in the form of a questionnaire and short discussion.
3.   Write a usability test report (maximum 2000 words) that should include:
        A description of your testing strategy with appropriate results

Records of your evaluation activities (e.g., discussion logs, questionnaires) in the Appendix.
Make recommendations for improvements to your prototype based on your findings.
You should use a range of relevant and high-quality references to support your work (use Harvard referencing)

PREPARATION FOR THE ASSESSMENT

The preparation for this assignment was provided in the lecture materials and associated activities in weeks 1-10 of semester two.

RELEASE DATES AND HAND IN DEADLINE

Assessment Release date: 12/02/2022

Assessment Deadline Date and time:
(a) E-banking prototype: 1st of April 2022 @ 23:59
(b) Evaluation Report: 1st of April 2022 @ 23:59

Please note that 23:59 is the final time you can submit - not the time to submit!

Do not contact module tutors to request an ad-hoc extension, such requests will always be refused.

If you feel you need to apply for an extension/have mitigating circumstances, you need to follow the correct university process detailed at https://www.uclan.ac.uk/students/support/extensions.php

SUBMISSION DETAILS

You should submit:

1. A fully functional prototype of the web banking application.
2. A usability test report (maximum 2000 words).

HELP AND SUPPORT

Assignment support will be provided in the CO4752 Microsoft Team during scheduled lab hours. For support with using library resources, please contact our subject librarian Fran Robinson frobinson3@uclan.ac.uk . You will find links to lots of useful resources in the My Library tab on Blackboard.
If you have not yet made the university aware of any disability, specific learning difficulties, long-term health or mental health conditions, please complete a Disclosure Form. The Inclusive Support team will then contact you to discuss reasonable adjustments and support relating to any disability. For more information, visit the Inclusive Support site.
To access mental health and wellbeing support, please complete our online referral form. Alternatively, you can email wellbeing@uclan.ac.uk, call 01772 893020 or visit our UCLan Wellbeing Service page for more information.
If you have any other queries or require further support, you can contact the <i>, The Student Information and Support Centre. Please speak with us for advice on accessing all the University services as well as the library services. Whatever your query, our expert staff will be able to help and support you. For more information, how to contact us and our opening hours, visit Student Information and Support Centre.
If you have any valid mitigating circumstances that mean you cannot meet an assessment submission deadline and you wish to request an extension, you will need to apply online prior to the deadline.

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