University of Central Lancancashire UCLan — School of Psychology and Computer Science	UCLan Coursework Assessment Brief	2021-2022
	Module Title: Web Application Development	
	Module Code: CO4752	Level 7
	CO4752 Assessment - CW2	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.   Develop a fully functional e-banking web application using Microsoft Visual studio and ASP.NET that meets the above requirements.
2.   The e-banking application should:
        Be fully functional without any bugs
        Be based on the prototype you develop in coursework one
        Implement the improvements you recommended in the usability test report

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) Fully functional e-banking application: 1st
                                                                            of May 2022 @ 23:59
                                                                        (b) MySQL DB: 1st of May 2022 @ 23:59

Please note that 23:59 is the <u>final</u> time you can submit - not <u>the</u> 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 a:

        zip package, and
        a source code text file via the link on Blackboard.

Both files should follow the name convention: Your Registration Number_ (FirstName LastName).zip/txt.

• The zip file should contain the following:
    a. Your complete visual studio solution.
    b. A db.sql file that contains all the data you've created or used or tested for your project.

Note: If you source code on Turnitin shows more than 20% similarity please speak to your tutor.

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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