AY24/25 Semester 1
C237 Software Application Development
CA2 Specifications

Introduction

The purpose of this assignment is to understand and apply the knowledge of website development to develop a working **NodeJS Web Application** that stores and retrieves data to/from a database server. The theme of the project will be based on what you proposed in CA1.

In part 2 of the project, you are to develop and submit the web application with GUI, screen interactivity and database integration.

Important note

This assignment constitutes the **second** part of a series of three assessments.:

- **Part 1** is to write and submit the proposal for the Web Application you would like to create to LEO2.0 (Week 5 - Completed)
- **Part 2** is to develop and submit the Web Application with GUI, screen interactivity and database integration to LEO2.0. (**CAG2 – Day before Week 10 Lesson**)
- **Part 3** is to present your work. (**CAG2 – Week 10 Lesson day**)

Note:

a. This is an individual project
b. You are to design, develop, test and implement the **NodeJS web application** you proposed in your CA1 proposal using only JAVASCRIPT, HTML, BOOTSTRAP, CSS and MySQL.
c. You are free to be as creative as you can but do ensure that you can complete the web application within the specified timeframe.
d. You are not allowed to use full website templates that are available on the internet. Significant marks will be deducted if you are discovered doing so.
e. No marks will be given to features that are hardcoded.
f. For this assessment, you may use artificial intelligence (AI) tools in your assessment task. If you do use AI-generated content in your assessment task, **you must acknowledge the use of the AI tool(s) in your work by clearly indicating the parts of the work that are generated by AI and including details such as the AI tool(s) used, the input prompts and how the generated response was used**. Failure to provide acknowledgement of the use of the AI tool(s) is tantamount to plagiarism and will be dealt with in accordance to RP's Rules and Regulations pertaining to academic integrity.

Before you start

1. **Create database**
    In PHPMyAdmin, create a database with the tables required.
    *Refer to "Step by Step Guide_Create a new database in phpMyAdmin.pdf"

2. **Add data into database**
    Add at least 5 sample data into your database.

Submission Instructions

FINAL SUBMISSION for CAG2 – One day before Week 10 Lesson day, 2359hrs.

Node.js Web application with GUI, screen interactivity and database integration
Submit the entire project folder as a zip file (including your database in .sql file format) into
LEO2.0. Please ensure that you have a backup copy of your application in case there is a
problem with the online submission.

Your zipped document file should be named according to the following format:

      StudentID_YourName_YourClassCode_CA2Submission.zip
E.g.:   23012345_PeterLim_C237_2D_E64A_ CA2Submission.zip

Note: DO NOT compress in RAR format.

Penalty for late Submission

Do remember to upload and submit your assignment on time.

*   DO NOT wait till the last hour or minute to submit your work.
*   Make regular backups of your work.