**INTI International College Penang School of Computing**

**3+0 Bachelor of Science (Hons) in Computer Science, in collaboration with Coventry University, UK 3+0 Bachelor of Science (Hons) in Computing, in collaboration with Coventry University, UK**

# Coursework cover sheet

**Section A - To be completed by the student.**

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| Full Name: Yong Huey Syh | |
| CU Student ID Number: 14196357 | |
| Semester: 1 | |
| Session:  **April 2023** | |
| Lecturer:  **Puteri Nursyawati Azzuri (puteri.azzuri@newinti.edu.my)** | |
| Module Code and Title:  **4067CEM Software Design** | |
| Assignment No. / Title:  **Continuous Assessment** | % of Module Mark:  **50** |
| Hand out Date:  **12 May 2023** | Due Date:  **Task 1: 02 June 2023, by 11.59pm.**  **Task 2: 07 July 2023, by 11.59pm**  **Task 3: 23 June 2023, by 11.59pm.**  **Task 4: 23 June 2023, by 11.59pm.**  **Task 5: 23 June 2023, by 11.59pm.** |
| Penalties: No late work will be accepted. If you are unable to submit coursework on time due  to extenuating circumstances, you may be eligible for an extension. Please consult the lecturer. | |
| Declaration: I/we the undersigned confirm that I/we have read and agree to abide by the University regulations on plagiarism and cheating and Faculty coursework policies and procedures. I/we confirm that this piece of work is my/our own. I/we consent to the appropriate storage of our work for plagiarism checking.  Signature(s): | |

# Section B - To be completed by the module leader

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| Intended learning outcomes assessed by this work:   1. Understand and apply appropriate concepts, tools, and techniques to each stage of the software development. 2. Understand and apply design patterns to software components in developing new software. 3. Demonstrate an understanding of project planning and working to agreed deadlines, along with professional, interpersonal skills and effective communication required for software production.   5. Demonstrate an awareness of, and ability to apply, social, professional, legal, and ethical standards as documented in relevant laws and professional codes of conduct such as that of  the Malaysian National Computer Confederation. | | |
| Marking scheme | Max | Mark |
| 1. User Story Mapping | 20 |  |
| 2. Setting up a GitHub |  |
| Repository | 10 |
| 3. Creating a Class diagram and |  |
| design pattern selection | 30 |
| 4. Creating a Prototype User |  |
| Interface and Usability Testing | 20 |
| 5. Discuss the ethical issue |  |
| related to the software | 20 |
| Total | 100 |  |

**Task 5**

**Privacy concerns**

First, the system will use and store the user consent which is a student in this case. To prevent any unauthorized access, students’ personal information needs to be protected or stored securely. To ensure compliance with applicable privacy regulations, the student data that is shared within the system needs to be clearly defined the extent. The student data must perform data retention and deletion to ensure it is not retained longer than necessary based on the system functionality and legal requirements.

**Intellectual property rights**

The study materials or any third-party materials that can be accessed within the software should be respected with intellectual property rights by comply the relevant licensing terms. The ownership and usage rights should also be clarified to ensure proper attribution and permissions. When distributing the system, the open-source licensing requirements and copyright laws should be compliant.

**Effects on society**

The system should be fair and contribute to educational equity for all students regarding access to resources, opportunities for engagement and grading criteria. The system should be performing the evaluation of potentially enhancing the educational experiences. Such as improving access to educational resources. The system should keep on improving by supporting different learning approaches and promoting collaboration.