**INTI International College Penang School of Engineering and Technology**

**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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| CU Student ID Number: 12673195 | |
| Semester: 2 | |
| Session:  **April 2022** | |
| Lecturer:  **Nadhrah Abdul Hadi (nadhrah.abdulhadi@newinti.edu.my)** | |
| Module Code and Title:  **4067CEM Software Design** | |
| Assignment No. / Title:  **Continuous Assessment** | % of Module Mark:  **50** |
| Hand out Date:  **22nd April 2022** | Due Date:  **Task 1: 13 May 2022, by 11.59pm**  **Task 2: 1 July 2022, by 11.59pm**  **Task 3: 19 June 2022, by 11.59pm.**  **Task 4: 19 June 2022, by 11.59pm.**  **Task 5: 19 June 2022, 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 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 2. Setting up a GitHub Repository 3. Creating a Class diagram and design pattern selection 4. Creating a Prototype User Interface and Usability Testing 5. Discuss the ethical issue related to the software | 20  10  30  20  20 |  |
| Total | 100 |  |

# TASK 5: ETHICAL ISSUES RELATED TO THE SOFTWARE

## 1. Effects on Society

The MNCC (Malaysian National Computer Confederation) Code of Conduct will used to explain the ethical issues on effects on society relating to this college event system.

This MNCC Code of Conduct makes up to 6 principles and shall undertake to adhere to these principles as a condition of membership.

3 principles are used to apply to the college event system.

### Confidentiality

The administrator in INTI International College Penang who is responsible to administrate the college event system and entrusted with confidential information from students and clubs shall act in complete discretion carry out their work with care and diligence. This means that they do not have the permission to use the confidential information to their own advantage. This principle also urges the administrator to protect and ensure the confidentiality of all confidential data and be alert of breach of confidentially by third parties.

### Responsibility

This principle means that any work shall take full responsibility on tasks that had undertaken to deliver to the client.

In this case, a software developer's client is INTI International College Penang. The developer should be responsible for the tasks they accepted to be within budget and time agreed with the client. The developer must alert the client weeks or months prior if they cannot deliver on the due date that they promised. Alerting the client early is best for both sides as there may need to take corrective actions as well.

The developer should be aware of the impacts of computer based systems on basic human rights of the client. They are also expected to transmit the benefits of information acquired from previous practices in their profession which became the accumulation of their technical knowledge, subject the relationship between them and the client to be confidential.

Next, the administrator is fully responsible to perform tasks for the college event system which are creating/deleting/updating user accounts and approve/disapprove event proposals. For example, the administrator is to respond in 3 days after the proposal submission from a club. If they may need to take longer, they will contact the club using the club's email which the administrator already has when creating the club account.

### Competence and Professionalism

The developer needs to be professional by being responsible in knowing what and how the client wants for the system. Procedures such as coming up solutions and accept constructive criticism through follow up meetings that are done with good attitude shows to show professionalism and care towards the client. The developer shall seek self-improvement and development in terms of professionalism.

## 2. Privacy Concerns

For this matter, Personal Data Protection Act 2010 (PDPA) is enforced in Malaysia to provide protection for personal data or information of individuals to be processed. This act must be complied to when there is “processing” of personal data.

A principle is applied to this college event system:

### Retention Principle

Based on Section 10. (1) “The personal data processed for any purpose shall not be kept longer than is necessary for the fulfilment of that purpose.” and (2) “It shall be the duty of a data user to take all reasonable steps to ensure that all personal data is destroyed or permanently deleted if it is no longer required for the purpose for which it was to be processed”, each student user has their details saved in the system which are name, student ID, programme, email and contacts. This information is saved in the database for club related activities. This information should be deleted by the time the student has already been graduated, means the administrator should delete user accounts that no longer need to be in the database. This also same applies to the administrators themselves, whereby the time they have left the job as an administrator, their information in this system should be deleted as well.

## 3. Intellectual Property Rights

Based on Section 13(1) (a)” Copyright in a literary, musical or artistic work, a film, or a sound recording or a derivative work shall be the exclusive right to control in Malaysia – the reproduction in any material form”, any works that are created by clubs, members or other creators in the system are protected by copyright, have the exclusive right to control under the copyright law, and no one besides the owners has no permission to use or reproduce those copyright materials.