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

**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: P21013721 | |
| Semester: 3 | |
| 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: 17 June 2022, by 11.59pm.**  **Task 4: 17 June 2022, by 11.59pm.**  **Task 5: 17 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): \_\_\_\_\_\_\_\_\_\_ Bing \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

**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 issue related to the Software**

College Event System that has been created are for Students, users can access to the website with any browser. Some of the cyber law is applied to our website to ensure that no privacy leaking would occur, also a protection against any imitator or mimic of our website system. However, this would be a concern in privacy concern, intellectual right property and effects on society.

**Privacy concerns**

About the privacy part of our websites is that we follow The Personal Data Protection Act 2010(PDPA) Which came into force on 15 November 2013. The PDPA enumerates the security principle as one of its data protection principles. Under this principle, an organisation must ensure both technical and organisational security measures are well in place to safeguard the personally identifiable information that it processes. The ISO/IEC 27001 Information Security Management System (ISMS), an international standard, which deals with information technology systems risks such as hacker attacks, viruses, malware and data theft, is the leading standard for cyber risk management in Malaysia. From above, College event system also will only collect personal data such as Username, name of user, Email of user (student email) , Student ID, club, school and password also the contact of events admin .

All data that has been collected will only be use in the website and database. Way of getting the data is from the website when a new user sign up register for an account. The collected data will only be use in the website for the use of the system to indicate unique ID, also phone number of event admin to input into database so that inside the website will come out the list of contact only for the use of letting user contact admin if need help or answer some question. As for phone numbers or contact of admin is collected by the user which is admin of event personally input the data inside our website which will save to our database. The data would only store for maximum 3 years for maximum but for contact of event admin would only be store until the end of event.

Data protection in our website would be maintaining and preventing leakage of confidential information of users except the phone number of event admin. There will be a risk for the admins getting scam call by having their phone numbers on the website but still there would be a protection where only users of the website are able to access to it where it is unique link to Student ID that would be unique data that indicates whether it is through or not with verifying with the campus database.

**Intellectual Property Rights**

Intellectual property rights are mainly in use to prevent infringement of copyright. For example, copyright of a musician, book, NFT, trademark and so on. As for cyber law for intellectual right College event system website implemented is Intellectual Property law. This law deals with intellectual property relating cases to protect and enforce the owners or creators’ rights. Areas of intellectual property include copyright, patent, and trademarks.

Copyright is a type of intellectual property that protects original works of authorship as soon as an author fixes the work in a tangible form of expression. Copyright can be in many form of works including paintings, photographs, illustrations, musical compositions, sound recordings, **computer programs**, books, poems**,** blog posts, movies, architectural works, plays and etc. In addition, copyright has a huge variety while on cyber prospective would mostly be computer programs, trademark and other. In College Event System website implemented Intellectual Property Law so that, there will not be any issue about copyright infringement of others programs and also other people mimicking on our programs.

A patent is the granting of a property right by a sovereign authority to an inventor. This grant provides the inventor exclusive rights to the patented process, design, or invention for a designated period in exchange for a comprehensive disclosure of the invention. To be simplify, it is the right of an invention for the author so that he can claim the skill as his right and preventing others to claim that that invention is by them.

As for trademark would be logo/sign. This is often uses in reality or in cyber due to everything need a logo to be branded as a thing. Trademark is important because it defines and unique a thing whether that thing is a company, drawing, commercials, inventions, or programs. Trademark help people to remember that that kind of logo is what which will also improve a sales or subscription of someone or some stuff in a way.

In conclusion College Event system websites follow the law of Intellectual Property rights to protect itself from copyright infringement and also not making any issue of mimicking any other programs.

**Effects on Society**

Effects on society is about how College Event System Website affect society. By following The Communication and Multimedia Act 1998 which is based on the basic principles of transparency and clarity, more competition and less regulation, flexibility bias towards generic rules, regulatory forbearance, emphasis on process rather than content, administrative and sector transparency, and self-regulation. College Event System Website will focus on updating the event and affecting student by letting them getting in touch with more educational and meaningful event via the websites.

Nowadays, after getting hit on covid there is a severe setback on events. Events nowadays is way lesser than the old days. Student had less path to get in touch and knowing about any events of campus only through whiteboard content and via lecturer information to know what event is upcoming and the detail of event. From the website, dedicated to let more users which are students to know more about school events and workshop.

Other than that, College Event System website wise can be more efficiently in organizing and effectively by having all online means as long as a tool that can go online using browser it can be access at anytime anywhere unless rural area with no wifi or internet. This would help a lot since normally people promote their event through social media and if the social media used is not used by everyone then it will be a undelightful way of promoting with much effort but less participants. While this website allow all student to know about the event as long as they log on to the website.

Furthermore with this app, host of event can do report on event more detail and more efficiently to keep a head count through the registration online and let the admin to do analysis on the event report easier and efficiently.