**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 |  |

**Introduction**

**Student Course Management System**

The system that I have create is Student Course Management System. The purpose for this system is to enhance the academic experience for the students who are studying in the colleges and universities. To enhance the experience and increase the time efficiency for the students, the system is included the features such as course registration, group collaboration, financial management, schedule management, grade checking system and access to the learning resources that upload by the course lecturer. By centralizing these important features, it will help the students to organize their academic life better and have an easier life in university.

In order to do that, I have found 10 users to ask them about what they wished for inside this system and I have collected their feedbacks. Below are their feedbacks:

1. As a student, I would like to register course and check the seats availability in this system.
2. As a student, I would like to check the course schedule.
3. As a student, I would prefer a detailed course schedule including time and locations.
4. As a student, I would like to track my course grades.
5. As a student, I would like to make online payment for tuition fees.
6. As a student, I would like to know the finance details about how much per course and tuition fees for each semester.
7. As a student, I would like to have easier access to learning modules including notes and lecturing slides.
8. As a student, I would like to have a collaboration feature with group works.
9. As a student, I would like to submit all the assignments and tasks online so that there is no need to print out the documents and submit on school.
10. As a student, I would like to have features of online register for scholarships.

**The diagram below is the whole user story mapping.**

A screenshot of a computer

Description automatically generated with low confidence