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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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

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

The Student Business System is an integrated platform that provides a wide variety of tools and resources aimed at assisting and empowering students in their educational endeavors. It acts as a catalyst for assisting students to develop their educational spirit and turn their ideas into successful businesses while seeking their academic objectives.

Throughout this assessment, we will be conducting a survey from people about their feedback on what features or components should we have in a student business system. Next, we will examine the goals, activities, and the releases for the Student Business System. By exploring its functionality, we will gain a deeper understanding of how it can revolutionize the way student approach within the college setting.

People's feedback

"I would love a student business system that allows me to easily register for my account and make settings for my profile." (Student)

"It will be good to have a feature on searching each courses information" (Student)

"I wish we can check our grades through the system rather than waiting for the mail to be mailed to us" (Student)

"I hope the system should provide clear information on available scholarships and the prices of each program." (Student)

"I wish I could know more about the lecturer before starting the course." (student)

"An essential feature for me would be a comprehensive internship and job portal within the system." (Student)

"Integration with the university library system is crucial. The system should allow us to search for books, and access e-resources." (Sibling)

"I would appreciate it if it can send notifications about campus news and events so that I won't miss any important notices." (Sibling)

"I wish it can give me recommendations for a personalized course for me by letting it know my grades and let it suggest the most suitable program for me." (Cousin)

"Mobile compatibility is a must-have for me. The student business system should have a mobile app allowing us to access important information using our smartphones." (Cousin)

User story mapping

As a new student, I want to manage user accounts and information so that I display my personal details.

As a student, I want to easily search for the course information so that I can view detailed information about it.

As a student, I want to view my grades so that I can monitor my academic performance.

As a student, I want to access financial aid information so that I can know the scholarships details and the prices of each program.

As a student, I want to know the lecturer

As a student, I want to search for internships and job opportunities

As a student, I want access to the library system so that I can access ebooks.

As a student, I want to receive notifications so that I can get the latest news and updates.

As a student, I want to get recommendations for personalized courses.

As a student, I want to be accessible via a mobile app.

User Story Mapping diagram

Goals | Activities | Release 1 | Release 2 | Release 3