**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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| --- | --- |
| Full Name: Chow Ching Huey | |
| 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** |
| 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**

|  |  |  |
| --- | --- | --- |
| 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 1: User Story Mapping

# Defining vision:

* Mission: to build a club management system for INTI International College Penang (IICP) as there is no such system that can aid students and clubs in efficiently and effectively by managing all clubs related matters in one and only place.
* Users: students and the admin i.e., the representative of the club committee who is responsible for posting events into the system.
* Value and benefits of this product: college clubs would use these as a platform to showcase their events, activities, and community to those students who are interested. This can also build and strengthen their communities, and let individuals learn and grow through those club activities.

# Interview results:

Chart, pie chart

Description automatically generated

Chart, pie chart

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, Teams

Description automatically generated

# User Story Mapping:

|  |  |
| --- | --- |
|  | Color |
| Goal | Green |
| Activity | Blue |
| Task | Light pink |
| Sub task (upper) | Coral |
| Sub task (middle) | Orange |
| Sub task (lower) | Yellow |

## **Student/User**

Figures below shows the user story mapping for students/users. There are five goals in total:

Goal 1: Manage user account



Goal 2: View clubs



Goal 3: Join clubs

Goal 4: View Events

Goal 5: Participate Events



**Further explanation of the whole user story mapping for student/user:**

Main menu slide:

In the homepage, which is the event feed, the user can slide open a side main menu to access the user/member/participant-oriented features.

View list of clubs:

There will be two subpages, “Clubs” and “My Clubs” to view club lists. “Clubs” page is for students especially freshmen can explore all the clubs by clicking on them to view their profile pages. “My Club” page is where all joined clubs are listed there.

QNAs and forums:

QNA is the page that is available for all students who want to know more about the clubs. Forums is the page where non-members can have access to only part of all threads, as some threads are members-only which can only be accessed by the club’s members to access private resources.

Built-in fill up forms:

Students can straight away do registrations or membership requests without needing to find the club’s committees to obtain google forms.

## **Club account holder**

Figures below shows the user story mapping for club account holders. There are four goals in total:

Goal 1: Manage club account



Goal 2: Manage club members

Goal 3: Manage event

Goal 4: Manage posts



**Further explanation of the whole user story mapping for club account holder:**

Club account:

There will be only one committee member (usually presidents) to manage club’s account, which is to be the club account holder. Each club has only one account, meaning that this person has their own student account as a user, and has this club account they are assigned to hold. For new clubs, the assigned club account holder will obtain their club’s email and password given by IT services in college. The club account holder is responsible for doing the procedures (replying QNAs, post events, submit event proposals, registering logistics and approving membership and participation requests), meaning that the committee group would discuss and making decisions together and let only one member to do the procedure in the system.

Analytics:

The club account holder can view all systematic computational analysis of data or statistics. The clubs can conduct interpretation and effective decision making or improvements their procedures of event organizations in the future. All analytics will be accumulated and will not be deleted. All information/data/statistics would accumulate in the club account and can pass down to the next club account holder.

Managing club and committee membership requests:

Instead of contacting and waiting for replies using social media which sometimes time consuming, having a feature where all requests stored in the system would be effective and efficient for the club to manage membership requests.

Manage club events:

Carrying out procedures which are storing proposal details and logistics registration in a database online would be efficient and failproof from human errors.

Manage club posts:

Posts are useful to promote upcoming organizing events to students who are interested to participate in.