## SafeAssign Originality Report

work for plagiarism checking.

SOFTWARE DESIGN • Creating a Class diagram and design pattern selection (30%)

<u>View Originality Report - Old Design</u>

TAN YI JIA - Submission UUID: 7fc4d59e-c984-fbdc-	1ca8-4e2cead14fcf				Total Score:	High risk	74 %
Total Number of Reports	Highest Match 74 % Task 3 Tan Yi Jia.docx		Average Match $74\%$	Submitted on 06/17/22 05:19 PM GMT+8		Average Word Count  1,132 Highest: Task 3 Tan Yi Jia.do	cx
Attachment 1	74 %						ord Count: 1,13: Tan Yi Jia.doc:
Institutional database (3)							74%
2 Student paper		1	Student paper	3	My paper		
Top sources (3)							
2 Student paper		1	Student paper	3	My paper		
3+0 Bachelor of So	ience (Hons) in Compute	r Science	gineering and Technology e, in collaboration with Covent laboration with Coventry Univ				
	be completed by the stu	ıdent Fu	ll Name: (3) TAN YI JIA				
	O Number: 12672752		<u> </u>				
Semester: 2							
Session: April 2022	2						
Lecturer: 2 Nac	dhrah Abdul Hadi (nadhra	h.abdul	hadi@newinti.edu.my)				
1) Module Code	e and Title: 2 4067CEN	l Softwai	re Design				
Assignment No. / <sup>-</sup>	Fitle: 2 Continuous Ass	sessmen	t % of Module Mark: 50				
1 Hand out Da	te: 2 22nd April 2022 [	Due Date	e: Task 1: 2 13 May 2022, by	y 11.59pm			
Task 2: 2 1 July							
Task 3: 2 17 Jui	ne 2022, by 11.59pm. Tas	k 4: 2	17 June 2022, by 11.59pm. Ta	ısk 5: 2 17 June 2022, by	/ 11.59pm.		
_	late work will be accepte on. Please consult the lect		are unable to submit coursev	ork on time due to extenu	ating circums	stances, you may be eligi	-
Declaration: (1)	/we the undersigned con	firm tha	t I/we have read and agree to	abide by the University reg	gulations on p	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

c:	<u></u>			-
Signature(s):	(3)	Υı	lıa	Lan

- 2 Section B To be completed by the module leader Intended learning outcomes assessed by this work: 1. 2 Understand and apply appropriate concepts, tools and techniques to each stage of the software development
- 2. 2 Understand and apply design patterns to software components in developing new software
- 3. 2 Demonstrate an understanding of project planning and working to agreed deadlines, along with professional, interpersonal skills and effective communication required for software production
- 5. 2 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.
- (1) Marking scheme Max Mark
- 1. (2) User Story Mapping 2. Setting up a GitHub Repository 3. Creating a Class diagram and design pattern selection
- 4. (2) Creating a Prototype User Interface and Usability Testing 5. Discuss the ethical issue related to the software 20

10

30

20

20

Total 100

2 Task 3 – Creating a Class diagram and design pattern selection

Lucid Chart is used in this task to draw the Class Diagram and UML Diagram to represent the TARUC college system. Class Diagram

The relationship between TARUC Student and Societies and Clubs shows that a student may enrol in zero or many societies and clubs and that the same condition may be associated with several students. One to many TARUC Student may write zero or many Feedback to the societies and clubs or the festival/event activities while the Societies and Clubs or Festival/Event Activities may receive zero to many Feedback from the students. One to many Committee member will manage a Societies and Clubs whereas the committee member is also can manage many others societies and clubs. The relationship between TARUC Student and the Festival/Event Activities describe that a student may join zero or many events and there may have the same condition for others student. The relationship between Other College Student and the Festival/Event Activities describe that the students may join zero or many TARUC events that are opened to all students. The relationship of Committee member with the Organiser illustrates that many committee members in the club can represent as an organiser to organise one to many Festival/Event Activities. The committee member can also become others organiser that show one or many committee member can be one or many organiser. The example of college staff in this system is the lecturers and head of programme. One or many College Staff can act as an Organiser to organise one to many Festival/Event Activities whereas the college staff can become another organiser to organise festivals and events. A Festival/Event Activities may have zero or many Featured Partner to sponsor the festival/event while the Featured Partner can sponsor to many other Festival/Event Activities. A Festival/Event Activities may have zero or one payment while the other festival/event activities will also have the same condition. The TARUC Student and Other College Student can make Payment to those festival/event activities which have the fees, for instance, registration fee, camp tshirt fee, and others. The Payment may consist of one or many TARUC Student and the Other College Student while the TARUC Student and Other College Student can make zero or one Payment only.

Design Pattern and UML Diagram The problems in the system are how the TARUC students enrol in clubs how TAR UC student and other college students register in festival/event activities with college events website. The suitable design pattern that can be implemented on the problem is facade. The reason choose Facade in this system is to provide a simple interface which are user-friendly for users to access in the complex system.

Furthermore, facade to tightly joined the abstractions and operations of a subsystem. Facade is a structural design pattern that deliver the complex system in simplified interface. The purpose of facade is to hide the complication of the internal system behind a single interface that looks simple from exterior but not reduce the complexity of the system. Facade also can minimize the dependencies on the sub-system. One of the examples for facade pattern in real life is STM machine, for instance, we want to withdraw RM200 from the ATM machine, we just need to insert the bank card into the ATM machine and enter the PIN of the card. Next, we choose to withdraw and key in the amount then the money will come out. It is very easy and simple for the user. Nonetheless we did not know about how the system run on the background, for example, how the system needs to validate the account, check the PIN, check the amount, and others. Based on the class diagram, there are many classes that are connect with Festival/Event Activities whereas some of the class have the same relationship. Besides that, the committee member and college staff both are the organiser but they are in two different class while the TARUC Student and Other College Student are also have the same condition which both have the same dependencies which is join the festival/event activities but they are in different class. All of these make the system seemed very complex. Thus, one of the solutions is combined the committee members, college staff, TARUC students and other college student in a same class which is a superclass that known as 'user'. This is to minimalize the dependencies on the sub-class.

Source Matches (27)

Student paper	100
Student paper	Original source
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	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
② Student paper	100
Student paper	Original source
Section A - To be completed by the student Full Name:	Section A - To be completed by the student Full Name
3 My paper	100
Student paper	Original source
TAN YI JIA	TAN YI JIA
① Student paper	100
Student paper  CU Student ID Number:	Original source  CU Student ID Number
2 Student paper	100
	Original source
Student paper  Nadhrah Abdul Hadi (nadhrah.abdulhadi@newinti.edu.my)	Nadhrah Abdul Hadi (nadhrah.abdulhadi@newinti.edu.my)
Children areas	100
(1) Student paper	
Student paper  Module Code and Title:	Original source  Module Code and Title
Continue and	100
Student paper	100
Student paper  4067CEM Software Design	Original source 4067CEM Software Design
② Student paper	100
Student paper  Continuous Assessment % of Module Mark:	Original source  Continuous Assessment % of Module Mark
Student paper	100
~	
Student paper	Original source

Student paper	100
Student paper	Original source
22nd April 2022 Due Date:	22nd April 2022 Due Date
2 Student paper	100
	Original source
Student paper  13 May 2022, by 11.59pm	13 May 2022, by 11.59pm
13 May 2022, by 11.33pm	13 Milly 2022, by 11.33pm
2 Student paper	100
Student paper	Original source
1 July 2022, by 11.59pm	1 July 2022, by 11.59pm
2 Student paper	100
Student paper	Original source
17 June 2022, by 11.59pm.	17 June 2022, by 11.59pm
17 Julie 2022, by 11.55pm.	17 June 2022, by 11.35pm
2 Student paper	100
Student paper	Original source
17 June 2022, by 11.59pm.	17 June 2022, by 11.59pm
2 Student paper	100
Student paper	Original source
17 June 2022, by 11.59pm.	17 June 2022, by 11.59pm
(1) Student paper	100
Student paper	Original source
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.	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
1 Student paper	100
Student paper	Original source
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.	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
3 My paper	100
Student paper	Original source
	. •

2 Student paper	100
Student paper	Original source
Section B - To be completed by the module leader Intended learning outcomes assessed by this work:	Section B - To be completed by the module leader Intended learning outcomes assessed by this work
3 Student paper	100
Student paper	Original source
Understand and apply appropriate concepts, tools and techniques to each stage of the software development	Understand and apply appropriate concepts, tools and techniques to each stag of the software development
② Student paper	100
Student paper	Original source
Understand and apply design patterns to software components in developing new software	Understand and apply design patterns to software components in developing new software
2 Student paper	100
Student paper	Original source
Demonstrate an understanding of project planning and working to agreed deadlines, along with professional, interpersonal skills and effective communication required for software production	Demonstrate an understanding of project planning and working to agreed deadlines, along with professional, interpersonal skills and effective communication required for software production
② Student paper	100
Student paper	Original source
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.	Demonstrate an awareness of, and ability to apply, social, professional, legal and ethical standards as documented in relevant laws and professional codes conduct such as that of the Malaysian National Computer Confederation
Student paper	100
Student paper	Original source
Marking scheme Max Mark	Marking scheme Max Mark
② Student paper	100
Student paper	Original source
User Story Mapping 2. Setting up a GitHub Repository 3. Creating a Class diagram and design pattern selection	User Story Mapping 2 Setting up a GitHub Repository 3 Creating a Class diagram and design pattern selection
3 Student paper	100
Student paper	Original source
Creating a Prototype User Interface and Usability Testing 5. Discuss the ethical issue related to the software 20	Creating a Prototype User Interface and Usability Testing 5 Discuss the ethical issue related to the software 20
② Student paper	85
Student paper	Original source