DESCRIPTION OF COURSEWORK

Course Code	SOF107
Course Name	Introduction of Software Engineering
Lecturer	Dr. Hejab Al Fawareh
Academic Session	2025/04
Assessment Title	Software Process and Requirement Engineering

A. Introduction/ Situation/ Background Information

This is an individual assignment. This assignment contributes 20% to continuous assessment. Students are required to conduct activities of a software process for requirement analysis.

B. Course Learning Outcomes (CLO) covered

At the end of this assessment, students are able to:

CLO 2 Apply different techniques and methodology in software engineering.

C. University Policy on Academic Misconduct

1. Academic misconduct is a serious offense in Xiamen University Malaysia. It can be defined as any of the following:
   i. **Plagiarism** is submitting or presenting someone else's work, words, ideas, data or information as your own intentionally or unintentionally. This includes incorporating published and unpublished material, whether in manuscript, printed or electronic form into your work without acknowledging the source (the person and the work).
   ii. **Collusion** is two or more people collaborating on a piece of work (in part or whole) which is intended to be wholly individual and passed it off as own individual work.
   iii. **Cheating** is an act of dishonesty or fraud in order to gain an unfair advantage in an assessment. This includes using or attempting to use, or assisting another to use materials

that are prohibited or inappropriate, commissioning work from a third party, falsifying data, or breaching any examination rules.

2. All assessments submitted must be the student's own work, without any materials generated by AI tools, including direct copying and pasting of text or paraphrasing. Any form of academic misconduct, including using prohibited materials or inappropriate assistance, is a serious offense and will result in a zero mark for the entire assessment or part of it. If there is more than one guilty party, such as in case of collusion, all parties involved will receive the same penalty.

D. Instruction to Students

- This is an individual assignment.
- The submission deadline is **24 May 2025, at 23:59 (MYT).**
- The assignment mark is 20% of the total of 100% of the coursework. The evaluation breakdown is presented in E.
- The assignment should be submitted in a PDF file based on the following instructions:
    - Use the template assignment cover page.
    - Attach the marking scheme at the end.
    - Line-spacing (1.5).
    - The format of paragraphs should be justified.
    - Font: Times New Roman (Size 12).
    - Heading Font Size 13 (Bold).
    - Provide supporting tables/figures/images (if necessary).
    - Necessary captions of tables, figures, should be provided.

E. Evaluation Breakdown

No.	Component Title	Percentage (%)
1.	Documentation	100%
	TOTAL	**100%**

F. Task(s)

Task 1: Choose one system from one of the following domains:

1. Banking system.
2. Education.
3. Healthcare.

(Note: you should specify what type of system you choose).

Then select the most suitable process model for the chosen software system, and write justifications why the selected process model is the most suitable one. Refer to journal papers as a reference to support your selection.

Task 2: Predict the criteria and challenges in the requirement engineering process for the system that you selected in Task 1. Refer to journal papers as references to support your selection.

Task 3: Write a report to document the activity of Task 1 and Task 2. Your report should contain the details listed below. Use the guidelines, while writing your report.

1. Introduction to the Software System (the selected one)
2. Software Process Model.
3. Requirement Engineering.

Report Guidelines (Recommended Total Number of Words: 1600**)**

1. Introduction:

a) Provide high-level background information and set the context that prepares the reader for more detailed and specific information.
b) Introduce the specific selected application.
c) Conclude the Introduction by mentioning the specific objectives of the selected application
d) The suggested number of words is about 200.

2. Software Process Model:

a) Provide details on the selected software process model that suits the selected application
b) Give more details on the selected process model in terms of why the process model is selected.
c) Provide the strengths and weaknesses of the software process model.
d) The suggested number of words is about 700

3. **Requirement Engineering Process:**

e) Provide the process in the requirement engineering of the selected application
f) Provide a description of the software requirement criteria or characteristics.
g) Provide the challenges in the requirement engineering of the selected application
h) The suggested number of words is about 700

APPENDIX 1

MARKING RUBRICS

Component Title	Assignment: Software Process and Requirement Engineering			**PERCENTAGE**		**100%**	
Criteria	**Score and Descriptors**					**Weight (%)**	**Marks**
	Excellent (40-33)	**Good (32-25)**	**Average (24-17)**	**Need Improvement (16-9)**	**Poor (8-1)**		
Software Process Model	**Applicable and most suitable software process model decided.**	**Good set applicable software process model decided.**	**Almost applicable software process model decided.**	**Decided software process model is somehow applicable but lack of conviction.**	**No software process model selected.**	**40%**	
Criteria	**Excellent (40-33)**	**Good (32-25)**	**Average (24-17)**	**Need Improvement (16-9)**	**Poor (8-1)**		
Criteria and challenges in requirement engineering	**Excellent set of criteria and challenges in requirement engineering process for the selected project with excellent references to journal papers.**	**Good set of criteria and challenges in requirement engineering process for the selected project determined.**	**Criteria and challenges in requirement engineering process for the selected project determined.**	**Criteria and challenges in requirement engineering process for the selected project determined but a few not relevant.**	**A few criteria and challenges in requirement engineering process for the selected project determined but none is relevant.**	**40%**	
Criteria	**Excellent (10-9)**	**Good (8-7)**	**Average (6-5)**	**Need Improvement (4-3)**	**Poor (2-1)**		
Assignment Format	**Very well organized, with table of content, page number etc.**	**Well organized with table of content, page number etc. Adequate**	**Organized with table of content, page number**	**Moderately organized with table of content, page number etc.**	**Poorly organized. Most of the references are missing**	**10%**	

	Well citing of references	**citing of references**	**etc. Lack citing of references**	**Some of the references are missing**			
	very easy to follow and has a very clear logical structure, well-constructed sentences, precise word choice, within the word limits, meticulous, etc.	**Moderately easy to follow and has a clear logical structure, well-constructed sentences, precise word choice, within the word limits, meticulous, etc.**	**Easy to follow and has a moderately clear logical structure, well-constructed sentences, precise word choice, within the word limits, meticulous, etc.**	**Not easy to follow and has a not clear logical structure, well-constructed sentences, precise word choice, within the word limits, meticulous, etc.**	**Not very easy to follow and has a not very clear logical structure, well-constructed sentences, precise word choice, within the word limits, meticulous, etc.**	**10%**	
					Total	**100%**	

Note to students: Please print out and attach this appendix together with the submission of coursework