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Unit	MBIS4004 System Analysis Design
Assessment Type	Report and Presentation
Assessment Number	3
Assessment Weighting	Group case project: Software design document 30%
Alignment with Unit and Course	**Unit Learning Outcome** ULO 1: Demonstrate comprehension of key methodologies and tools for the analysis and design of enterprise information systems. ULO2: Design data flow diagram(s), entity relationship(s) and state process modelling for user requirement analysis. ULO3: Develop, analyze, and diagnose conceptual, logical, and physical web and UML data models. ULO4: Investigate and incorporate user requirements, business rules and constraints into the design of an information system. **Graduate Attributes Assessed** GA 1: Communication GA 2: Collaboration GA 3: Research GA 4: Critical Thinking GA 5: Ethical Behavior GA 6: Flexibility
Due Date/Time	Week 4, Session 7 - In class - Presentation Week 4, Session 7 - Report submission via Moodle Turnitin 5:00pm (AEST)
AI Clause	The use of AI should only be undertaken if an assessment clearly states that it is permitted. Penalties will apply if AI is used intentionally without permission.
Assessment Description	• In this assessment, students must work in a group to prepare a case study of designing a software project. • A 2000-word Report on Software Design based on your Selected project details. • A 15-minute Presentation in week 4, session 7 during your class time by whole group. • You are required to form groups of Three to Four (3 to 4) students. • Your group is required to research and analyze a real-life situation and prepare a software design document of a project. Text of the project document can be prepared with essay writing AI (Artificial Intelligence) technology like service including referencing in the style you prefer. Try some of them: https://essaygenius.ai/, https://www.essaytyper.com/ or https://www.essaybot.com/. After you receive AI generated text, you should read it and improve it. Please carefully read the document AI and Plagiarism, provided on Moodle, for more information. • You may use www.creately.com, www.diagrams.net, MS Word, Visio, or any other modelling tool to create diagrams.
Detailed Submission Requirements	Suggested topics (list is not restricted): • Fingerprint voting system • Peer assessment system • Video attendance system • Crowd control system • Sentiment analysis for product rating • Parking lot booking system • Weather forecasting system • Casual Marking and Control System • Internship Management System. **Report:** This report is to be submitted in MS Word format, written in size 12 Arial Font. Upload the report via Moodle/Turnitin. Follow the instructions as required by this assessment brief. **Presentation: All group members must give the presentation to get the marks. Zero marks will be given to the group member who does not give the presentation or who is absent on the presentation day.**

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Group Work INSTRUCTIONS

This is a group assessment. Please make groups of three to four students for this assessment.

HOW TO PRESENT YOUR ASSIGNMENT / SUBMISSION INSTRUCTIONS

Your report must follow the structure given below:

1. **Executive Summary**
   - It should summarize the key points of the Software Design Document.
2. **Introduction**

   Introduction has the following sections:
   - **Background of Project:** Explain the aims, objectives, and importance of the project. What problem you are solving.
   - **Purpose:** Explain the purpose of the Software Design Document.
   - **Structure:** Explain the structure of the Software Design Document.
3. **Information Gathering**

   This section has the following three components:
   - **Two information gathering methods:** Select one interactive and one unobtrusive information gathering method and state its implementation for your software application.
   - **Three Case Problems:** Analyze at least three case problem scenarios for your selected software project, simplify each scenario by suggesting and applying information gathering approach.
   - **System overview:** Provide an overview of main functionalities of the system.
4. **Design Viewpoints**
   - **Logical Viewpoint**: Explain the logical viewpoint related to your project. Draw class diagrams to explain the logical viewpoint.
   - **Information Viewpoint**: Explain the information viewpoint related to your project. Draw Entity Relationship (ER) diagrams to explain the Information viewpoint.
   - **Interface Viewpoint:** Explain the various interfaces of the project. Provide screenshots (mockups) of various aspects of Front End of the software.
   - **Interaction Viewpoint**: Explain the interaction viewpoint related to your project. Draw Sequence Diagrams to explain the Interaction viewpoint.
5. **References and Appendices**
   - In Harvard referencing style

RETENTION OF RECORDS

- Students are required to keep a copy of all items submitted or completed for assessment or evaluation until the end of the grade appeal period.

GROUP CONTRIBUTION FORM

- You must submit the Group Contribution Form with the report. Group Contribution Form is given at the last page of this assessment brief.

MARKING CRITERIA

See the rubric given at the end of the document.

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Misconduct

- The assessment will be submitted through Turnitin via your unit page on Moodle.
- Turnitin is plagiarism software, which will identify if you have copied information
- and included it in your assessment.
- Copying information from others (i.e. websites, partner company information, or other students etc.) without the acknowledging the author is classified as misconduct.
- Engaging someone else to write any part of your assessment for you outside of the group work arrangement is classified as misconduct.
- To avoid being charged with Misconduct, students need to submit their own work and apply Harvard Style Referencing (ask your lecturer or the learning support coordinator (*academicsuccess@aih.nsw.edu.au*) if you do not know what this means, or you need assistance applying it).
- The AIH misconduct policy and procedure can be read on the AIH website (https://aih.nsw.edu.au/about-us/policies-procedures/).
- Use the AIH referencing guide accessible via Library and Learning Support Page on Moodle.

Late Submission

- Any assessment submitted past the specific due date and time will be classified as Late.
- Any Late submission will be subject to a reduction of the mark allocated for the assessment item by 5% per day (or part thereof) of the total marks available for the assessment item. A 'day' for this purpose is defined as any day of the week including weekends. Assignments submitted later than one (1) week after the due date will not be accepted unless special consideration is approved as per the formal process.

Special consideration

- Students whose ability to submit or attend an assessment item is affected by sickness, misadventure or other circumstances beyond their control, may be eligible for special consideration. No consideration is given when the condition or event is unrelated to the student's performance in a component of the assessment, or when it is considered not to be serious.
- Students applying for special consideration must submit the form within 3 days of the due date of the assessment item or exam.
- The form can be obtained from the AIH website (https://aih.nsw.edu.au/current-students/student-forms/) or on-campus at Reception.
- The request form must be submitted to Student Services. Supporting evidence should be attached. For further information please refer to the Student Assessment Policy and associated Procedure available on (https://aih.nsw.edu.au/about-us/policies-procedures/).

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Assessment 3 – Case Study - Marking Rubric – Report 20%

Rubrics	Criteria	Marking Criteria				
		HD	D	C	P	F
LO 1: Demonstrate comprehension of key methodologies and tools for the analysis and design of enterprise information systems. **ULO2: Design data flow diagram(s), entity relationship(s) and state process modelling for user requirement analysis.** **ULO3: Develop, analyze, and diagnose conceptual, logical, and physical web and UML data models.** **ULO4: Investigate and incorporate user requirements, business rules and constraints into the design of an information system.** **20 marks**	**Executive Summary and Introduction (2 marks)** Executive Summary (1 mark)	Clearly summarizes the key point of the Software Design Document (1 mark)	Lacks in summarizing some key points of the Software Design Document (0.75 mark)	Not clearly summarizes key points of the Software Design Document (0.5 mark)	Poorly summarizes the key points of the Software Design Document (0.25 mark)	Executive Summary is missing and not part of the report (0 mark)
	Introduction (1 mark)	Clearly describes the background of project, purpose, and structure of Software Design Document (1 mark)	Lacks some description of background of project, purpose, and structure of Software Design Document (0.75 mark)	Not clearly describes the background of project, purpose, and structure of Software Design Document (0.5 mark)	Poorly describes the background of project, purpose, and structure of Software Design Document (0.25 mark)	Introduction is missing and not part of the report (0 mark)
	Information Gathering (6 marks) Information Gathering (2 marks)	Clearly explains the Information gathering that will be used in the Project (2 marks)	Lacks some description of the Information gathering that will be used in the Project (2 -1.5 marks)	Not clearly describes the Information gathering that will be used in the Project (1.5-1 marks)	Poorly describes the Information gathering that will be used in the Project (1-0.5 marks)	Information gathering methods that will be used in the project are not written (0 mark)
	Case Scenarios (2 marks)	Clearly explains the case scenarios of the system. (2 marks)	Lacks some description of the case scenarios of the system. (2 -1.5 marks)	Not clearly describes the case scenarios of the system. (1.5-1 marks)	Poorly describes the case scenarios of the system. (1-0.5 marks)	case scenarios section is missing. (0 mark)
	System Overview (2 marks)	Clearly explains the main functionalities of the system. (2 marks)	Lacks some description of the main functionalities of the system. (2 -1.5 marks)	Not clearly describes the main functionalities of the system. (1.5-1 marks)	Poorly describes the main functionalities of the system. (1-0.5 marks)	System Overview section is missing. (0 marks)
	Design Viewpoints (12 marks) Logical Viewpoint (3 marks)	Class Diagrams are clearly drawn and explained (3 marks)	Few class diagrams are not clearly drawn and/or not clearly explained (2 - 2.75 marks)	Many class diagrams are missing and/or not clearly explained (1-1.75 marks)	Many class diagrams are missing and poorly explained (0.25-0.75 marks)	Logical Viewpoint section is missing and not part of the report (0 marks)
	Information Viewpoint (3 marks)	Entity Relationship (ER) diagrams are clearly drawn and explained (3 marks)	Entity Relationship (ER) diagrams are not clearly drawn and/or not clearly explained (2 - 2.75 marks)	Many Entities relationship (ER) diagrams are missing and/or not clearly explained (1-1.75 marks)	Many Entities Relationship (ER) diagrams are missing and poorly explained (0.25-0.75 marks)	Information Viewpoint section is missing and not part of the report (0 marks)
	Interface Viewpoint (3 marks)	All Interfaces are clearly explained, and appropriate screenshots are provided (3 marks)	Few interfaces are not clearly explained and/or appropriate screenshots are not provided (2-2.75 marks)	Many interfaces are not clearly explained and/or appropriate screenshots are not provided (1-1.75 marks)	Many interfaces are not clearly explained, and appropriate screenshots are not provided (0.25 - 0.75 marks)	Interface Viewpoint section is missing and not part of the report (0 marks)
	Interaction Viewpoint (3 marks)	Sequence diagrams are clearly drawn and explained (3 marks)	Few Sequence diagrams are not clearly drawn and/or not clearly explained (2-2.75 marks)	Many Sequence diagrams are missing and/or not clearly explained (1-1.75 marks)	Many Sequence diagrams are missing and poorly explained (0.25-0.75 marks)	Interaction Viewpoint section is missing and not part of the report (0 marks)

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Assessment 3 – Case Study - Marking Rubric – Presentation 10%

Task	Description	Maximum Marks	Marks Obtained
1	Comprehensive introduction: - Introduced self - Introduced the project and its importance	**01**	
2	- Content - Delivery - Timing	**03**	
3	- Well-designed Slides - Readable/ Spellings/Grammar - Slides are numbered - References in Harvard Style	**01**	
4	Answers to Questions - Knowledge of the design process - Knowledge of elements worked in this project - Knowledge of diagrams and explanation	**05**	
	Total	**10**	