FACULTY OF COMPUTING
UTM Johor Bahru

Semester II 2024/2025

Subject : System Analysis and Design (SECD2613)
Section :
Task : Phase 2 - Information System Gathering and Requirement (11%)
Due : 6th June 2025

Phase 2 Guidelines

	Task	Deliverables (items in Requirement Analysis)
1	Extract and update accordingly from Phase 1 submission	● Overview of the Project ● Problem Statement ● Proposed Solutions
2	Get information on the current systems *(AS-IS)*	Methods used for gathering information 1. Details of the information gathering method (questions/questionnaire etc). 2. Summary from the method (include survey/interview sample). ● Requirement analysis based on survey/interview conducted (Refer Task 4)
3	Conduct interactive and unobtrusive methods to gather the information from the relevant stakeholders	

4	Gathers information about what the users want in the new systems *(TO-BE) based on the current system AS-IS).*	● Current business process/workflow
		● Identification of functional and non-functional requirement (AS-IS).
		● Logical DFD (AS-IS) system (based on current business process/workflow)
		   1. Context Diagram
		   2. Diagram 0
		   3. Child Diagram (if applicable)

Prepare a System Requirement Document as below:

1.0 Overview of the Project
2.0 Problem Statement
3.0 Proposed Solutions
4.0 Information gathering process
    4.1 Method used
    4.2 Summary from method used (include example Interview/Questionnaire/Observation)
5.0 Requirement Analysis (based on AS-IS analysis)
    5.1 Current business process (scenarios, workflow)
    5.2 Functional Requirement (input, process and output)
    5.3 Non-functional Requirement (performance and control)
    5.4 Logical DFD AS-IS system (Context Diagram, Diagram 0, Child)
6.0 Summary of Requirement Analysis process

Phase 2 Mark Allocation

	ITEM	%
PLO2 (Apply)	Exercises related to CLO3	2
	Technical aspect for CLO3 (Part B)	3
PLO3 (Problem Solving)	Requirement aspect for CLO3 (Part C)	5
PLO7 (Teamwork)	Self/Peer Evaluation (Part A)	1
	TOTAL	**11**

PHASE 2 RUBRIC

note: Rubric is taken from Assessment for Learning Handbook, Tools for Assessment and MIS 5302: Case Study Analysis Rubric.

PART A (1%) Teamwork				
Criteria	**High (4)**	**Average (3)**	**Low (2)**	**Unsatisfied (1)**
Teamwork	The team worked **WELL TOGETHER** to achieve objectives. Each member contributed in a valuable way to the project.	The team worked **WELL TOGETHER MOST OF THE TIME**, with only a few occurrences of communication breakdown. Members were mostly respectful of each other.	The team worked together **most of the time, POSSIBLE FAILURE** to collaborate when appropriate. Some members would work independently, without regard to objectives or priorities.	Team did **NOT COLLABORATE** or communicate well.
Part B (3%) Technical Aspects				
Criteria	**High (4)**	**Average (3)**	**Low (2)**	**Unsatisfied (1)**
Organizational Analysis (Able to identify key information/data from relevant sources)	Displays a **COMPREHENSIVE UNDERSTANDING** of an organization's structure, culture and available resources as well as its key advantages and distinctive attributes. Provides **INSIGHTFUL ANALYSIS** supported by data.	**PRECISELY** identifies and displays an understanding of an organization's structure, culture and available resources, as well as its key advantages. Provides **ORIGINAL ANALYSIS** with some supporting data.	**CLEARLY** identifies an organization's structure, culture and available resources. Moves beyond reporting of facts to offer some **ADDITIONAL ANALYSIS**.	**LIMITED** ability to identify and analyze an organization's structure, culture and available resources. Mostly reports facts with **LITTLE OR NO ANALYSIS**.
Stakeholder Perspectives	Demonstrates ability to identify **ALL** relevant stakeholders; to identify and reflect on their perspectives and interests as they relate to a particular business issue; and to **MAP FULLY THE INTERACTIONS** between stakeholders.	Demonstrates ability to identify **MOST** relevant stakeholders; to identify and reflect on their perspectives and interests as they relate to a particular business issue; and to begin to **MAP THE INTERACTIONS** between stakeholders.	Demonstrates ability to identify **SOME** relevant stakeholders. Displays **SOME** ability to identify relevant stakeholders and their perspectives and interests as they relate to a particular business issue.	Demonstrates **LIMITED OR NO** ability to identify relevant stakeholders and their perspectives and interests as they relate to a particular business issue.

Business StoryTelling (Able makes connections between ideas/facts/data to definition of requirements)	IMMEDIATELY GRABS attention. CLEARLY establishes the appropriate context for why information is important. "Story" is focused and presented in a MEMORABLE fashion.	GRABS ATTENTION. Establishes the appropriate context for why information is important. "Story" is CLEAR AND FOCUSED.	Does NOT IMMEDIATELY GRAB attention. Somewhat establishes the appropriate context for why information is important. "Story" is SLIGHTLY DIFFUSE AND UNFOCUSED.	STRUGGLES to grab attention throughout. Little or no establishment of appropriate context for why information is important. "Story" is DIFFUSE AND UNFOCUSED
Supporting Evidence	Evidence presented to support argument/recommendation is STRONG AND CREDIBLE, exhibiting depth of idea. Counter evidence is ADDRESSED AND SUFFICIENTLY refuted.	Evidence is SUFFICIENT to support argument/recommendation. Counter evidence is ADDRESSED BUT NOT SUFFICIENTLY refuted.	Evidence is SOMEWHAT SUFFICIENT to support argument/recommendation. IGNORES SOME of the counter evidence to argument.	Evidence is INSUFFICIENT OR MISINTERPRETED in support of argument/recommendation. IGNORES ANY counter evidence to argument.
Content Development & Writing	Content is somewhat ACCURATE AND CLEAR; offers SOLID AND ACCURATE reasoning; contains appropriate details and / or examples	Content is somewhat ACCURATE AND FAIRLY CLEAR; offers SOLID BUT LESS ACCURATE reasoning; contains some appropriate details and / or examples	Content is somewhat VAGUE OR only LOOSELY RELATED to the writing task; at times may be OFF TOPIC OR TOO BROAD with limited support	Content UNCLEAR; LAPSES IN COHERENCE OR NO RELATION to writing task; offers simplistic, undeveloped support for ideas.
	Written works has NO MAJOR ERRORS in word selection and use, sentence structure, spelling, punctuation and capitalization.	Written works is RELATIVELY FREE OF ERRORS in word selection and use, sentence structure, spelling, punctuation and capitalization	Written work has SEVERAL MAJOR ERRORS in word selection and use, sentence structure, spelling, punctuation and capitalization	Written work has SERIOUS AND PERSISTENT ERRORS in word selection and use, sentence structure, spelling, punctuation and capitalization

Part C (5%) Requirement Aspects				
Criteria	High (4)	Average (3)	Low (2)	Unsatisfied (1)
Identify the requirement based from the case study.	Correctly interpreted ALL business rules with CLEAR idea on the input, process and output.	Correctly interpreted MOST of the business rules with GOOD idea on the input, process and output.	INACCURATELY interpreted the business rules with WRONG idea on the input, process and output.	UNABLE to interpret the business rules with NO IDEA on the input, process and output.

Produce a context diagram for the current/manual system based from the case study.	GOOD understanding of the requirement and name of the main process, entities and data flows are ACCURATE and SUITABLE.	PARTIAL understanding of the requirement and have MINIMAL ERROR in naming the main process, entities and data flows.	INCORRECTLY understand the requirement and put INACCURATE name for the main process, entities and data flows.	FAIL to understand the requirement and put WRONG name for the main process, entities and data flows.
Produce Diagram 0 and (possible child diagram) for the context diagram.	ACCURATE use of names in entities, processes, data flows and data store – ALL names are appropriately used in regard of its requirement.	Some MINOR errors in the use of names in entities, processes, data flows and data store – FEW names are not clear/suitable with its requirement.	INACCURATE use of names in entities, processes, data flows and data store – the name DID NOT correlate with its requirement.	WRONG use of names in entities, processes, data flows and data store. Shows NO understanding in identifying the entities, processes, data flows and data store.