

GROUP ASSIGNMENT 2
FUNCTIONAL MODELING – USE CASE DIAGRAM
(4-5 students)

I. Goal:

The series of group assignments (GA2-GA6) aim to exercise your skill in **analyzing and designing a real information system**. You will be part of a team which consists of 4 to 5 people. Each group will be assigned a mini case. Each case concerns possible information systems project (as part of Electronics Commerce Information Systems) to be developed in Anapedia.com. In this part, the objectives of Group Assignment 2 are:

- a. Student is able to apply the concepts, techniques, and methods of requirement analysis for information systems project in an organization.
- b. Student is able to create functional modeling (as part of system proposal deliverable) of a case study of information systems projects.

II. Submission and Deadline:

- a. Please write **complete identity information (class, name, NPM)**
- b. Deadline
Softcopy : Sunday, 18 October 2020, 23.55 on SCeLe
- c. Format softcopy:
[GA2]-[Class]-[Group Name]
Example: GA2-A-Group 1
- d. Late submission of coursework is **only accepted in the next day**, but penalty will be applied, result in **20% deduction of the total score**.
- e. Indication of **plagiarism** will result in **zero mark**.
- f. Write the references (if any)
- g. Each member of group must **submit peer review form (BORANG GROUP)** via SCELE (**no later than one day after deadline**, see dropbox for deadline).
- h. **Presentation will be held in 7th Week** (see further announcement about this).

III. Instructions

- a. Please refer to section **Case Study Assignment** below to get the case study assignment for your group.
- b. Read the **file Project Description of E-Commerce IS for Anapedia.com** to understand the **organization profile and business objectives of the project and relate them with the business requirements**.
- c. **Read the description** of the (**ONLY**) **assigned** case study for your group in the **file Project Description of E-Commerce IS for Anapedia.com**. The case study presents the result of **first**

interview to the stakeholders (operational and managerial staffs), that describes **rough identification towards business process of the organization and requirements of the systems.**

- d. According to the description of case study, **as a systems analyst you are expected to create System Proposal Part 1, which consist of:**

i. BUSINESS PROCESS MODELLING

- a. **Analyze as is business processes** of the organization and **model the business processes*** by using activity diagram (single flowchart and/or cross functional flowchart diagram).

You may **interview the teaching assistant** (as if project stakeholders) to confirm and/or ask for further explanation about **as is business process**. You may prepare your **interview instruments** and attach them with **interview transcripts** in the System Proposal document (you can put it in the Appendix). Please do **make appointment** before the interview.

***Hint: The case study may consist of one or more business process(es).**

- b. Based on the given case and business process model, **identify activity or process that can be improved (or computerized)** by developing an information system. You may draw a table to highlight which one that can be computerized.
- c. Give explanation, description, or assumption (if any) to justify the proposed improvement.

ii. REQUIREMENT DEFINITION

- a. **Functional requirement**

According to the case:

- create a list of functional requirements of the systems.
- **analyze the requirements based on IS Hierarchy**. The proposed system at least has TPS and MIS functionality.

- b. **Non-functional requirement**

According to the interview result, create a list of non-functional requirements that are **most important to be considered and relevant** to the systems.

iii. FUNCTIONAL MODEL

Based on your analysis in section ii (Requirement Definition), create:

- a. Use Case Diagram of the proposed system
- e. The guidelines for **system proposal deliverable are provided**, but you are allowed to **make modification** on them. The guidelines state the minimum description/content required for the project that ought to be provided by each project team.
- f. You are allowed to search supporting data or information on the internet. Please write your assumption for your proposed solution (if any) and provide the references (if any).

IV. Topics of E-Commerce IS for Anapedia.com

- Topic 1: *Product Management System*
- Topic 2: *Merchant & Partnership System*
- Topic 3: *Transactions System*
- Topic 4: *Marketing & Service System*
- Topic 5: *Human Resources System*
- Topic 6: *Warehouse & Expedition System*

PIC: Clarisa

PIC: Falahdina

PIC: Saffanah

PIC: Nur Rifandy

PIC: Adiva

PIC: M. Andriansyah

V. Case Study Assignment per Group

Anaperancis A	
Group 1	Topic 1
Group 2	Topic 2
Group 3	Topic 3
Group 4	Topic 4
Group 5	Topic 5
Group 6	Topic 6
Group 7	Topic 1
Group 8	Topic 2
Group 9	Topic 3
Group 10	Topic 4
Group 11	Topic 5
Group 12	Topic 6
Group 13	Topic 6

Anaperancis B	
Group 1	Topic 1
Group 2	Topic 2
Group 3	Topic 3
Group 4	Topic 4
Group 5	Topic 5
Group 6	Topic 6
Group 7	Topic 1
Group 8	Topic 2
Group 9	Topic 3
Group 10	Topic 4
Group 11	Topic 5
Group 12	Topic 6
Group 13	Topic 3

VI. Marking Component

Content	Percentage
Business Process Modelling (30%)	
a. Business process model	50%
b. Activity identification	30%
c. Assumption/explanation	20%
Requirement Definition (20%)	
a. Functional Requirement (TPS, MIS, EIS)	50%
b. Non-functional Requirement	50%
Functional Model (50%)	
a. Syntax	10%
b. Identification of use case and system boundary (including use case name)	25%
c. Identification of actor	25%
d. Identification of association	10%
e. Identification of advanced association (include, extend)	10%
f. Aesthetics	10%
g. Explanation related to actor and scope of the use case	10%