GROUP ASSIGNMENT 4
STRUCTURAL MODELING – CLASS 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 objective of Group Assignment 4 is:

a. Student can create structural 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, 22 November 2020, 23.55 on SCeLe
c. Format softcopy:
   [GA4]-[Class]-[Group Name]
   Example: GA4-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 10th 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. This assignment continues your analysis of the given case study to deliver the structural model.
c. For creating the structural model, you must identify relevant data and process in your case study. The deliverables of functional model are the guidance to create the structural model.
d. You can use several techniques (see Slides Chapter Structural Modeling) to identify relevant attributes, class, and operations.
e. Based on your analysis, you are expected to create: **STRUCTURAL MODEL**
   i. Class Diagram, identify:
   – relevant classes, data (attributes), operations (methods) as complete as you can do

- multiplicity
- visibility of classes, data, and operation

ii. **Description of Class Diagram**
- Explain type of association and its multiplicity among classes in the class diagram, based on the case study or assumption (if any) used to create the class diagram.

iii. **CRC Cards**. You can choose five (5) identified classes that have close relationship.

f. The guidelines and templates for system proposal deliverable are provided, but you are allowed to modify them. The guidelines and templates state the minimum description required for the project that ought to be provided by each project team.

g. Merge the deliverables of this assignment (GA 4) with your previous deliverables (Functional Modeling - GA 2 & 3).

h. 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* **PIC: Clarisa**
- Topic 2: *Merchant & Partnership System* **PIC: Falahdina**
- Topic 3: *Transactions System* **PIC: Saffanah**
- Topic 4: *Marketing & Service System* **PIC: Nur Rifandy**
- Topic 5: *Human Resources System* **PIC: Adiva**
- Topic 6: *Warehouse & Expedition System* **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
Class Diagram (60%)	
a. Class identification	15%
b. Attribute identification	15%
c. Operation identification	20%
d. Relationship identification	20%
e. Multiplicity & cardinality	15%
f. Visibility of class, attribute, & operation	15%
Description/Assumption (10%)	
CRC (30%)	
a. Front Part	50%
b. Back Part	50%