**BACHELOR OF COMPUTER SCIENCE**

**FACULTY/SCHOOL OF COMPUTER SCIENCE**

**BINA NUSANTARA UNIVERSITY**

**JAKARTA**

**ASSESSMENT FORM**

**Course: COMP6115 - Object Oriented Analysis & Design**

**Method of Assessment: Case Studies**

**Semester/Academic Year : 4/2020 - 2021**

**Name of Lecturer : ………………………**

**Date : ………………………**

**Class : ………………………**

**Topic : Construction**

|  |  |
| --- | --- |
| **Group Members :** | 1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  7\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Student Outcomes:**

**SO 4 - Able to produce software applications which can solve the problems in informatics.**

**Learning Objectives:**

**LObj 4.1 - Able to identify problems in informatics;**

**LObj 4.2 - Able to propose designed solution for problems related to informatics;**

**LObj 4.3 - Able to produce software applications for solving problems in informatics by applying software development method.**

| **No** | **Assessment criteria** | **Weight** | **Excellent (85 - 100)** | **Good (75-84)** | **Average (65-74)** | **Poor (0 - 64)** | **Score** | **(Score x Weight)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Ability to identify problems in informatics | **25%** | Able to identify concepts of understanding of user requirement and solutions are comprehensively explained with study case. | Able to identify concepts of understanding of user requirement and solutions are properly explained but lack of study case. | Able to identify concepts of understanding of user requirement and solutions are explained, and lack of study case. | Lack of ability to identify concepts understanding of user requirement and solutions is not properly explained, and lack of study case. |  |  |
| 2 | Ability to develop the diagramming standard for an object oriented analysis and design case. | **25%** | Able to develop 6 thru 9 diagramming standard for any case of problem area in object oriented software requirement. | Able to develop 3 thru 5 diagramming standard for any case of problem area in object oriented software requirement | Able to develop at less than 3 diagramming standard for any case of problem area in object oriented software requirement. | Lack of ability to develop any diagramming standard for any case of problem area in object oriented software requirement. |  |  |
| 3 | Ability to collect data and determine the software requirement for user system area using object orientation standard documentation | **25%** | The data collection and software metric are remarkably presented with 3 criteria: methods of data collection, measurements of reliability, and alternative design solutions. | The data collection and software metric are remarkably presented with 2 of 3 criteria: methods of data collection, measurements of reliability, and alternative design solutions. | The data collection and software metric are remarkably presented with 1 of 3 criteria: methods of data collection, measurements of reliability, and alternative design solutions. | The data collection and software metric are not remarkably presented with any criteria. |  |  |
| 4 | Ability to manage the software team in organizing analysis and design and apply the object orientation of software design | **25%** | Able to describe 80-100% parameters to manage object oriented analysis and design including project organizing, staffing, software quality assurance, and software metric | Able to describe 60-79% parameters to manage object oriented analysis and design including project organizing, staffing, software quality assurance, and software metric | Able to describe 50%-49% of all parameters to manage object oriented analysis and design including project organizing, staffing, software quality assurance, and software metric. | Able to describe only less then 50% of all parameters to manage object oriented analysis and design including project organizing, staffing, software quality assurance, and software metric |  |  |
|  | **Total Score:** ∑(Score x Weight) | | | | | | |  |

Remarks:

**ASSESSMENT METHOD**

Instructions

1. Students will be divided in groups with maximum 6 people (depend on the number of the student). This group are formed in the first session and  they will choose their own member.
2. Your group is free to choose a case in the company or institution that will be used to develop object oriented analysis and design.
3. For submission, each group must submit a report and presentations on program design
4. The report contains
   1. Case study title
   2. Introduction
   3. Project Management
   4. Requirements Determination
   5. Business Process and Functional Modeling
   6. Structural and Behavioral Modeling
   7. Data Management Layer Design
   8. Human Computer Interaction Layer Design
   9. Physical Architecture Layer Design
5. Report will be submitted in pdf format and whole member must be participated in the group project
6. Output (size not more than 1 MB) and saved in .zip or .rar format containing :
   1. Report (pdf)
   2. Application or implementation documentation of project

**Note for Lecturers**:

Please inform the assessment to the students from Week 1.

Please ask the students to submit the assessment maximum Week 11.