TEB1033/SDB 1123 – System Analysis and Design
Semester Jan 2021

Group Project
(

This project will contribute **20%** of your final mark for this subject. This is a group project (Max of 5 students/group), although individual contributions will be assessed.

Objectives:

The objectives of this task are to understand the organization business functions and propose the potential project to overcome the problem or to improve the business values. Students also will be experienced in planning and executing software project prior to the project execution and implementation.

Project Deliverables and Marks Distribution:

1. Project Proposal	20
2. Final Report	
• System Requirement Specification	20
• System Modeling (UML), UI Design	20
• Architectural Design	10
• Technology/Method	10
3. Final Presentation	20

Total	100

Deliverable 1: Project Proposal (20 marks)

For this deliverable, each group is required to observe, analyze and understand the current environment and business processes of the assigned organization. You must be able to identify the strengths and weaknesses of the organization. Hence, you must be able to identify their current problems. In this proposal, you must describe your observation and findings. And, you must also specify your proposed system complete with its descriptions, tools and techniques to be used.

For this deliverable, your group must specify and describe the following:
- Project Justification – Why do you develop the project and how does the system may improve their services.
- The system characteristics and requirements of your proposed system in detail.

What should be in your proposal

- Introduction
- Project Background
- Problem Statement
- Project Idea and justification
- Project Process
- Timeline
- Expect outcome and Improvement
- Team Structure and Role
- Technology issues
- Conclusion

You can use a bullet form to describe your idea.

Due Date W6: 13 Feb 2021 (saturday : before 3pm) – online submission

Deliverable 2: Final Report (60 marks)

For this deliverable, your group is report 4 areas of your project
- System Modeling using UML notation.
  You are required to transform your understanding and ideas of your proposed system into abstraction representations so that it can be shared and understood by everybody. You are required to develop 4 UML diagram
  - i.   USE CASE diagram,
  - ii.   Class diagram
  - iii.   Activity Diagram and
  - iv.   Sequence Diagram for your project.

- User Interface Design
  You are required to provide a snap shot of your system user interface. You must also describe the purpose and the functionality of the windows.

- Architectural Design
  In this document, you must create the detail architecture design of the proposed system.

Your group is required to submit in hardcopy and softcopy (report, prototype etc).

Due Date: TBD

Deliverable 3: Final Presentation (20 marks)

Your group is required to present your working product. This **FORMAL** presentation will give you an experience to present your work. We will assess the presentation based on overall group, individual presentation skills and contributions. A peer assessment will also be introduced in this presentation. A schedule and venue for the presentation will be notified later.

Your group is required to submit the product Source Code during the presentation.

Date: TBD