SLIIT
Discover Your Future

BSc (Hons) in Information Technology

Year 2

Group Assignment

IT2020 – Software Engineering **Semester 2, 2022**

Instructions:

1. This assignment is worth 10% of the final marks.
2. This assignment will be done with the same group as the OOP grouping.
3. Each member will be assessed individually.
4. **Do your assignment for the allocated topic for each group.**
5. **Identify different functions for the topic allocated for you. (Each member should have a separate function)**

   Example: 4 members group – 4 different functions with equal scope.
6. **All the functions must have equal scope and should have a considerable amount of work. (Ex: Do not take login as a function for a single member).**
7. **Each group member is responsible for writing a use case scenario and drawing a sequence and a communication diagram according to the guideline at the end of this document.**
8. **Overall assignment should include a high-level Use case diagram (Common for all members) 4 use case scenarios, 4 sequence diagrams, and 4 Communication diagrams.**
9. Late submission will be penalized by a 5 marks reduction per day.
10. You must submit the softcopy of the assignment.
11. Assignment deadline will be published on the course web and links will be available.
12. Follow the link on the course web for softcopy assignment submission – **Separate Links will be available for each Topic**. Make sure you submit it to the correct link.
13. Plagiarism will be penalized.
14. Each member's contribution **must** be given at the end of the document using the following format. (**No marks will be allocated for a member whose contribution is not mentioned**).

Note: If a particular member did not contribute to the assignment, that should be mentioned under the "Function Name" column with his/her function name.

Reg. No	Name	Function Name

15. You must attach the cover page for the document. Cover page format is given in the course web.

Marking Guidelines

1. Use software to draw the diagram/s (any software)	02 marks
2. Selecting the main use case with enough functionality	03 marks
3. Write a logical and complete use case scenario for the use case you have selected for the sequence diagram.	20 marks
4. Identify correct class stereotypes for the use case scenario	10 marks
5. Correct and logical use of at least **three** of the following concepts /frames • Iteration concept • Conditional concept – (ALT and OPT) • Parallel execution concept • Ref Concept	30 marks
6. Correct use of messages according to the scenario • Synchronous, Return, Asynchronous, self-call, Create, Destroy	10 marks
7. Communication Diagram • Draw a communication diagram for the same use scenario you drew in the sequence diagram	20 marks
8. Overall completeness of each function design (Individual marks for each member's contribution).	05 marks
Total	100 marks