

Total Contribution of this assessment to the final Mark – 10%

## Case Study

Consider the **topic** you have been given for **OOO group work**. (Same topic is given for SPM, IWT and ISDM modules)

### Do the following tasks

- 1) List down the requirements you have identified, for the system you need to implement.
- 2) Do a Noun Verb analysis and identify classes in your description.
- 3) Draw CRC cards for the classes you have identified. You can further refine your classes by analyzing the requirements further.

### Submit the following:

Description of the requirements, the classes you identified and the CRC cards. ( no need to add the Noun Verb analysis to the report)

#### Exercise 1: (50 marks)

Draw the class diagram for the classes you have identified in your scenario. You need to use proper UML notations to draw the class diagram. Show the necessary relationships among classes using UML notations.

Include the attributes and the methods in the classes.

**Special Note :** Each member should do part of the design which they can code separately. The final report should indicate the class diagram of the whole system as well as the individual contribution.

#### Exercise 2: (50 marks)

Write the coding for the classes in your class diagram. You can write the coding of the class and the constructors. You need not implement the methods. Write a main program to create the objects of the classes you have written.

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**Special Note :** Each member should develop the coding for the classes they have individually designed in Exercise 1.

**Submission Instructions:**

- 1) Include the Description, classes identified, CRC cards and the answers for both exercises in a word document.
- 2) Include a cover page ( template given )
- 3) Rename the word document with your Group number in the following format and save as PDF.

**GroupNo\_Topic.pdf**

**Eg : MLB\_01.01\_01\_OnlineFoodDelivery.pdf**

- 4) You can do program code (Exercise 2) using Visual Studio/ repl.it Dev C++ (the same way you have done for Tutorials). Copy the code to the document.
- 5) **Deadline for Submission to courseweb link : 31<sup>st</sup> October 2023, 12 midnight.** Late submissions are not marked and hence given zero.

**Note:**

- 1. All submissions will be checked using a plagiarism tool. If your submission fails the plagiarism test, you will get zero marks for the entire assignment.**
- 2. Document name should be given in the format as exactly mentioned in the point 3) above. Failing to do so will result in 50% reduction of marks.**
- 3. All details of the cover page should be filled. Failing to mention the correct group number, ID numbers and the names of members and the topic correctly will result in loss of marks.**

Cover Page :



Topic :

Group no :

Campus : Malabe / Metro / Matara / Kandy / Kurunegala / Kandy / Jaffna

Submission Date :

We declare that this is our own work and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

Registration No	Name	Contact Number