

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

**Exercise 1: (20 marks)**

- 1) List down the requirements you have identified, for the system you need to implement.  
There should be at least 10 different requirements excluding the user login.
- 2) Do a Noun Verb analysis to the nouns you identify in your description.
- 3) List down the classes you have identified to implement your system using noun verb analysis.

**Exercise 2: (20 marks)**

- 1) Draw CRC cards for the classes you have identified in **Exercise 1**. Identify the Responsibilities and Collaborations of each class.  
You can further refine your classes by analyzing the requirements further.

**Exercise 3: (30 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.

**Exercise 4: (30 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.

**Submission Criteria:**

- 1) Write answers for all 4 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.

**GroupNo\_Center.doc**

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- 4) Upload the word document to the correct link which is provided in the course web page according to the campus you have registered.
  - 5) **Deadline for Submission: 10th October, 2020, 12 midnight.**

**Note: 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.**