BSc (Hons) in Information Technology

Object Oriented Concepts – IT1050

Assignment 2

Year 1, Semester 2 **2022-June**

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

PART 1 – Case Study – Group (5% contribution)

Consider the **topic** you have been given **for OOC 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:

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 and upload in GitHub. 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 and upload in the relevant repository in GitHub. Include all coding of all 4 members to the report too.

Use the following link to create your projects

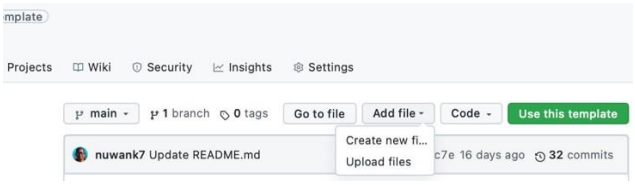
https://classroom.github.com/a/b1fF6Ldt

Submission Instructions:

1) Include 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.

   GroupNo_Topic.pdf

   Eg : MLB_01.01_01_OnlineFoodDelivery.pdf
4) Upload the word document/pdf to your official github repo by using the Add command in GitHub.



5) You should add program code (Exercise 2) using repl.it (the same way you have done for Tutorials). If you have an issue in using private repositories in repl.it you can upload your individual work using step 4.
6) **Deadline for Submission in GitHub group repo and report to courseweb link : 17th May 2022, 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.

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PART 2 – Online Quiz – Individual (5% contribution)

A case study (similar to the one addressed in Part 1) will be published two days prior to the Quiz date (To be announced later). There will be a quiz containing MCQ questions related to the case study given.

Quiz date : To be announced (after 17th May 2022)

Date of release of the case study : two days prior to the quiz

Duration : 30 minutes

Type : MCQ