COURSEWORK TITLE

COURIER SERVICE SYSTEM

1.0 THE COURSEWORK OVERVIEW

The assignment is to design and implement a Courier Service System. There are 2 types of end users interacting to the system:

i. Managing Staff
ii. Delivery Staff

All the end users are required to login for authentication and authorisation purposes.

2.0 OBJECTIVES OF THIS COURSEWORK

Develop the practical ability to describe, justify, and implement an object-oriented system.

3.0 LEARNING OUTCOMES

At the end of this coursework, you should be able to:

- Design and develop a software solution using object-oriented paradigm and translate it into software application that exploit the strength of object-oriented paradigm (C6, PLO2)
- Demonstrate object-oriented concepts and their functionalities in the existing system (A3, PLO4)

4.0 TYPE

Group Assignment (2 in a group); each member is expected to complete 50% of all functional requirements.

5.0 COURSEWORK DESCRIPTION

- Managing staff will handle user account management, order management, feedback management, and report management.
- Delivery staff will handle delivery management and individual profile management.

You are also required to identify the relationship among the entities and also develop the necessary methods needed to fulfil the requirements of the expected systems.

6.0 GENERAL REQUIREMENTS

- The program submitted should compile and be executed without errors
- Validation should be done for each entry from the users in order to avoid logical errors.
- The implementation code **must highlight** the use of object-oriented programming concepts as required by the solution.
- Students should use **text files** for storing and retrieving data required for the system.
- **Not allowed** to use any database tools like access / oracle etc.

7.0 DELIVERABLES:

- The system with complete code delivered in softcopy form by uploading to Moodle.
- Documents delivered in softcopy form by uploading to Moodle.
- Submission deadline: Friday, 27 November 2020, 11:59 pm

7.1 SYSTEM & DOCUMENATION FORMAT

- The completed application of the system as well as the softcopy of the report must be uploaded to Moodle.
- The application must contain all the relevant source code.

7.2 DOCUMENTS: COURSEWORK REPORT

- As part of the assessment, you must submit the project report in softcopy form, which should have the following format:

A) Cover Page:

All reports must be prepared with a *front cover*. A protective transparent plastic sheet can be placed in front of the report to protect the front cover. The front cover should be presented with the following details:

- Module
- Coursework Title
- Intake
- Group member (Student name and ID)
- Date Assigned (the date the report was handed out).
- Date Completed (the date the report is due to be handed in).

B) Contents:

- Description and justification of the design and the implementation codes which illustrate the object oriented programming concepts incorporated into the solution
- A 2000-word report based on the object-oriented topic researched

C) Conclusion

D) References

- The font size used in the report must be 12pt and the font is Times New Roman. Full source code is not allowed to be included in the report. The report must be typed and clearly printed.
- You may source algorithms and information from the Internet or books. Proper referencing of the resources should be evident in the document.
- All references must be made using the Harvard Naming Convention as shown below:

The theory was first propounded in 1970 (Larsen, A.E. 1971), but since then has been refuted; M.K. Larsen (1983) is among those most energetic in their opposition.……..

```
/**
* Following source code obtained from (Danang, S.N. 2002)
*/
int noshape=2;
noshape=GetShape();
```

- List of references at the end of your document or source code must be specified in the following format:

Larsen, A.E. 1971, A Guide to the Aquatic Science Literature, McGraw-Hill, London.

Larsen, M.K. 1983, British Medical Journal [Online], Available from http://libinfor.ume.maine.edu/acquatic.htm (Accessed 19 November 1995)
*Danang, S.N., 2002, Finding Similar Images [Online], The Code Project, *Available from http://www.codeproject.com/bitmap/cbir.asp, [Accessed 14th *September 2006]*

- Further information on other types of citation is available in *Petrie, A., 2003, UWE Library Services Study Skills: How to reference [online], England, University of Western England, Available from http://www.uweac.uk/library/resources/general/info_study_skills/harvard2.htm, [Accessed 4th September 2003]*.

	Member 1	*Member 2*
User Management	*X*	
Order Management		*X*

8.0 ASSIGNMENT ASSESSMENT CRITERIA

The assignment assessment consists of four components: Requirement Analysis (20%), Implementation (40%), Report (30%), and Presentation (10%). Details of the allocation for each component are as follows:

CRITERIA	MARKS ALLOCATED
REQUIREMENT ANALYSIS: [CLO2-PLO2]	**20%**
(a) Use case diagram (b) Class diagram	10% 10%
IMPLEMENTATION: [CLO2-PLO2]	40%
Group member A: (a) User management (b) Report management Or, *Group member B:* (c) Oder management (d) Delivery management	 20% 20% 20% 20%
REPORT: [CLO2-PLO2]	**30%**
(a) Report Format and References (b) Program Documentation	10% 20%
PRESENTATION: [CLO3-PLO5]	**10%**
Ability to answer questions addressed by the lecturer pertaining to the work done and presented	10%

9.0 DEVELOPMENT TOOLS

The program must be written in Java language and you can use any Java development IDE as a tool but the back-end data store must be **.txt** files.

10.0 ACADEMIC INTEGRITY

- You are expected to maintain the utmost level of academic integrity during the duration of the module.

- Plagiarism is a serious offence and will be dealt with according to APU regulations on plagiarism.