



DIPLOMA IN INFORMATION TECHNOLOGY

COURSEWORK

SUBJECT : SYSTEM ANALYSIS AND DESIGN

SUBJECT CODE : DIT2143

DEADLINE : WEEK 9 (TBC)

INSTRUCTIONS TO CANDIDATES

This assignment will contribute 70% to your final grade.

IMPORTANT

The Sunway Diploma Studies requires students to adhere to submission deadlines for any form of assessment. Penalties are applied in relation to unauthorized late submission of work.

- Coursework submitted after the deadline but within 1 week will be considered as late submission.
- Work handed in following the extension of 1 week after the original deadline will be regarded as a non-submission and marked zero.

Academic Honesty Acknowledgement

“We verify that this paper contains entirely my own work. We have not consulted with any outside person or materials other than what was specified (an interviewee, for example) in the assignment or the syllabus requirements. Further, we have not copied or inadvertently copied ideas, sentences, or paragraphs from another student. we realize the penalties (*refer to the student handbook diploma and undergraduate programme*) for any kind of copying or collaboration on any assignment.”

Name	Signature	Date
Ryan Cheah Wei Ren		
Xuanao Zhao	<i>frankie</i>	

Learning Outcomes: -

LO2: Analyse a case study and identify the requirements appropriate to its solution.

LO3: Design a simple business information system using various analysis techniques.

Component A: Project (35%)

CASE STUDY SCENARIO

The current pandemic has moved everything to be run online, from work until delivering your groceries at your doorstep. Often deliveries done by the seller of the goods themselves. But many homemakers or small home-based business owners having difficulties to provide delivery services to their customers due to various reasons.



Those reliable delivery services are very expensive

I can't leave my house; I need to take care my kids.

Can't match my delivery time and customer's availability time.

As a solution to this problem, we decided to design and build an **online platform for sellers and delivery riders** to meet and fulfil the need for delivery services (seller-rider-buyer). It will be a mobile application which will allow freelance riders to register and take up delivery tasks posted by sellers. Some features expected in the application:

1. Riders register in the app and verification to be done by admin
2. Senders (sellers) need to register in order to use the application.
3. Senders will post delivery requests in the system. The system should calculate the delivery charges. Sender allowed to post current and future delivery requests.
4. Rider can take up the request with the accept option and will do the pickup and delivery.
5. The sender or seller will be notified once the delivery is completed.

This project is given to your team now. You are required to form a project team of 3-4 persons to carry out the analysis and design activities for the case above. Then, produce a report that is not more than 10 pages.

The following is the sample outline of the report content.

Report Content

- Cover Page (Report Cover Page)
- Introduction
 - Background information
 - Objectives
- Analysis
 - Functional requirement specification
 - Non-functional requirement specification
 - Use case diagram & Use Case Description
 - Class diagram with explanation
- Design
 - Wireframe of the application interfaces
- Conclusion

Component B: Presentation (35%)

You are required to present the report from Component A in **Week 9 or 10**. You will be given 20-25 minutes for the presentation including Q&A session. This is a **compulsory task**. Upon completing the presentation, you are required to take an online test in e-learn to assess you on your understanding of the topics from chapter 1 – 7. The test is assessed individually. The date of the test will be announced later.

Assessment Criteria

You will be assessed based on the following requirements:

REQUIREMENTS	MARKS
Written Report Introduction (3 marks) <ul style="list-style-type: none">● Background information● Objectives Analysis (25 marks) <ul style="list-style-type: none">● Functional & Non-functional requirement● Use Case Diagram● Class Diagram Design (5 marks) <ul style="list-style-type: none">● Wireframe of the application interfaces Conclusion (2 marks)	35
Presentation <ul style="list-style-type: none">● Visual Aids (5 marks)● Presentation Skill (5 marks)● Knowledge (5 marks)● Q & A Test Session (20 marks)	35
TOTAL	70

General Rubric for Each Component

Marks	29-35	22-28	15-21	8-14	0-7
Criteria	Met most if not all or even exceeded expectations.	Met majority of the expectations.	Met minimum requirements expected.	Met partially or very less than the required expectations.	Did not meet the expected requirements, if not, out of context entirely; very poor deliverables.

Mode of Submission

- Assignment must be submitted in hard copy (report).

- Report must use Times New Roman, 12 pt standard and 1.5 lines spacing.