



**FIRST SEMESTER SESSION 2020/2021**  
**SCSD2613 SYSTEM ANALYSIS AND DESIGN**  
**FINAL REPORT PROJECT SADM**

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(SECTION 08)

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## **1.0 Introduction**

### **1.1 Background Study**

The Thesis Binding UTM is facing problems of handling the data of their customers' information, product, order and payment detail. In the current system, they accept orders online through WhatsApp, then they record all the order details into Microsoft Excel through the computer. Hence, the shop purchased more products, and the sort of product increased. This data handling system lacks control and security. It is because the staff might miss some of the order from WhatsApp when there is a huge amount of order in a day and Microsoft Excel programs run very slowly when the data file is too large. Moreover, the shop has changed the phone number in the last few months, the old customers might not notice it and lost contact with the shop.

### **1.2 Problem Statement**

1. The shop owner can only handle a maximum of 15 orders per day even if there are more than 30 orders on that day.
2. The staff takes a long time to search the previous record of the customer as reference when the customer wants to print or burn the same file.
3. The current system does not classify the order type and the customer's document accurately.
4. The staff takes time to record the customer's information and their order detail.
5. The current system needs the staff to update manually with the customer and tracing the order process.

### **1.3 Proposed Solution**

1. To design an online transaction system for the printing shop and the customers to smoothen the order process and enable the customers to trace their order process.
2. To provide the order list follows the order sequence to make it clear to the shop owner and the staff.
3. To implement online payment and QR code payment for the customers to reduce the contact between the staff and the customers.

## 1.4 Objective

1. Makes it easy for admins to store customer and order data
2. To reduce redundant customer data of order.
3. To improve the system order (order, payment, delivery and process).
4. To improve a more systematic and easy ordering system
5. To facilitate customer order review

## 1.5 Scope

The system will cover and include the order procedure such as payment methods in this application such as by cash or transfer, the system also will track the order so that the customer can view the order process by application. Next is a notification of an order, this will be updated by an admin to inform the customer that their documents are ready. This system also provides a way to view, edit and search for customer orders and admin.

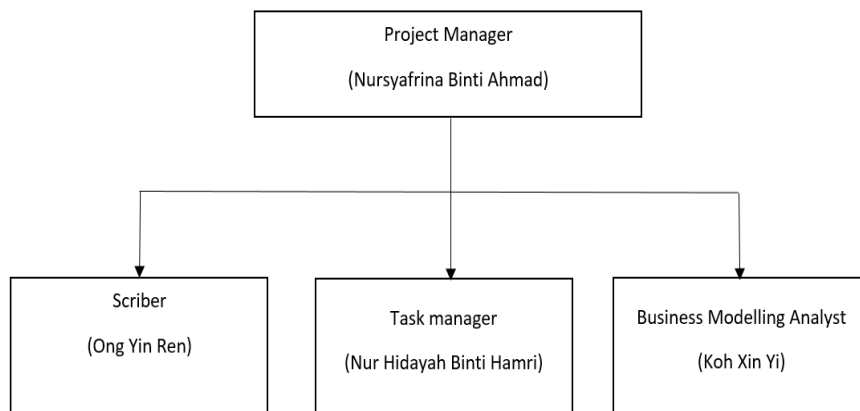
### CBA (Cost Benefit Analysis)

| Estimated Cost     | Column1                       |  | Assumption                        | Column1 |
|--------------------|-------------------------------|--|-----------------------------------|---------|
| Hardware           | RM 40000                      |  | Discount rate                     | 10%     |
| Software           | RM 5000                       |  | Sensitivity factor (cost)         | 0.8     |
| Supplies           | RM 3000 per year              |  | Sensitivity factor(benefits)      | 0.9     |
| IS Support         | RM 18000 per year             |  | Annual Change in production costs | 5%      |
| Maintenance        | RM 2500 per year              |  | Annual Change in benefits         | 7%      |
| Salary of Staff    | RM 79200 per year (2200*3*12) |  |                                   |         |
|                    |                               |  |                                   |         |
| Estimated Benefits | Column1                       |  |                                   |         |
| Savings            | RM 5600 per week              |  |                                   |         |
| Increase Sales     | RM 1400 per week              |  |                                   |         |

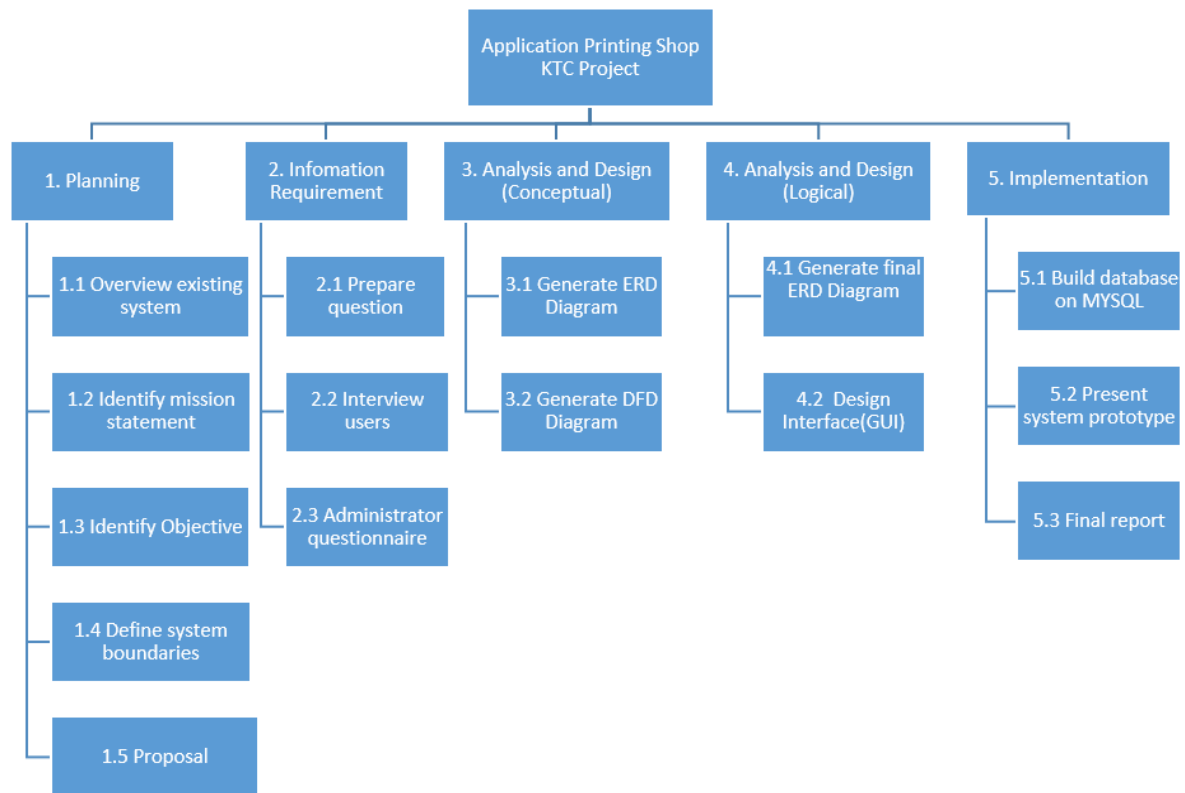
| Costs  | Year 0 | Year 1 | Year 2 | Year 3 |
|--|--------|--------|--------|--------|
| <b>Development Cost</b>  |        |        |        |        |
| Hardware   | 40000  |        |        |        |
| Software   | 5000   |        |        |        |
| <b>Total</b>   | 45000  |        |        |        |
| <b>Production Cost</b>   |        |        |        |        |
| Supplies   |        | 2400   | 2520   | 2646   |
| Network  |        | 14400  | 15120  | 15876  |
| Maintenance  |        | 2000   | 2100   | 2205   |
| Salary   |        | 63360  | 66528  | 69854  |
| Annual Production Costs  |        | 82160  | 86268  | 90581  |
| (Present Value)  |        | 74691  | 71296  | 68055  |
| Accumulated Costs  |        | 119691 | 190987 | 259042 |
|  |        |        |        |        |
| Benefits   | Year 0 | Year 1 | Year 2 | Year 3 |
| Savings  |        | 262080 | 280426 | 300056 |
| Increase Sales   |        | 65520  | 70106  | 75013  |
| Annual Prod. Benefits  |        | 327600 | 350532 | 375069 |
| (Present Value)  |        | 297818 | 289696 | 281795 |
| Accumulated Benefits   |        | 297818 | 587514 | 869309 |
| Gain or Loss   |        | 178127 | 396527 | 610267 |
| Profitability Index  | 13.561 |        |        |        |
| Profitability Index is 13.561, showing that it is a good investment because of its index is more than one. |        |        |        |        |

## 2.0 Project Planning

### 2.1 Human Resource



## 2.2 Work BreakDown Structure(WBS)



## 2.3 PERT Chart

| Activity |                            | Predecessor | Duration |
|----------|----------------------------|-------------|----------|
| A        | Overview existing system   | NONE        | 2        |
| B        | Identify mission statement | A           | 2        |
| C        | Identify objective         | A           | 2        |
| D        | Define system boundary     | B, C        | 2        |
| E        | Proposal                   | D           | 12       |
| F        | Prepare question           | E           | 2        |
| G        | Interview users            | F           | 2        |
| H        | Administer questionnaires  | F           | 3        |
| I        | Generate ERD Diagram       | G, H        | 5        |
| J        | Generate DFD Diagram       | I           | 6        |
| K        | Generate final ERD Diagram | J           | 7        |
| L        | Design Interface(GUI)      | K           | 11       |
| M        | Build database on MYSQL    | L           | 21       |
| N        | Present system prototype   | M           | 3        |
| O        | Final report               | N           | 4        |





### 3.2 Data Dictionary for Conceptual Design

| Entity Name | Attributes            | Description                            | Data Type & Length    | Nulls | Multivalued |
|-------------|-----------------------|--|-----------------------|-------|-------------|
| Customer    | Username              | Username for customer                  | 30 variable character | No    | No          |
|             | User ID               | Uniquely identify a customer           | Number                | No    | No          |
|             | Password              | Password for the username              | 20 variable character | No    | No          |
|             | Phone number          | Phone number of customer               | Number                | No    | No          |
|             | Shipping address      | Address of customer                    | 50 variable character | No    | No          |
| Document    | Document ID           | Uniquely identify document             | Number                | No    | No          |
|             | Document name         | Name of document                       | 30 variable character |       |             |
|             | Price                 | Price of document                      | Decimal               | No    | No          |
|             | Stock quantity        | Quantity of document customer purchase | Number                | No    | No          |
|             | Type of document      | Type of document customer purchase     | 10 variable character | No    | No          |
| Order       | Order number          | Uniquely identify order                | 20 variable character | No    | No          |
|             | Order time            | Time of order will deliver             | Timestamp             | No    | No          |
|             | Order status          | Status of order                        | 30 variable character | No    | No          |
|             | Quantity              | Quantity of document in an order       | Number                | No    | No          |
|             | Subtotal              | Total price of document in an order    | Decimal               | No    | No          |
| Admin       | Admin ID              | Uniquely identify id                   | Number                | No    | No          |
|             | Username              | Name to log into the application       | 30 variable character | No    | No          |
|             | Password              | Key to login with the id successfully  | 20 variable character | No    | No          |
| Runner      | Runner ID             | Uniquely identify runner id            | Number                | No    | No          |
|             | Runner name           | Name of runner that deliver document   | 30 variable character | No    | No          |
|             | Runner's phone number | Phone number of runner                 | Number                | No    | No          |

|         |                    |   |                       |    |    |
|---------|--------------------|---|-----------------------|----|----|
| Payment | Transaction number | A reference for the customer and the shop | Number                | No | No |
|         | Payment method     | Types of method to make payment           | 30 variable character | No | No |
|         | Payment time       | Time of making the payment                | Timestamp             | No | No |
|         | Total payment      | Total payment pay by the customer         | Decimal               | No | No |

#### **4.0 Benefit and Summary Proposes System**

The benefits gained after this printing shop uses this application system are that their admin no longer needs to record every incoming order via whatsapp one by one. With this application system, the admin can see each order list clearly without overlooking the information provided by the customer as before so as not to mistype in the book. Through this system as well, customers can make reservations to buy stationery for example A4 paper, textpad, pen and so on. In addition, this application system also provides delivery services to customers either inside UTM or outside by showing the order process whether it is still in process or ready to be sent to the customers and they also can go to the store for self pickup. The last advantage of this printing shop application system is also that customers can choose the payment method they want, this application provides two payment methods either cash on delivery or via transfer.

#### **5.0 Information Gathering Process**

##### **5.1 Method used**

We decided to use a questionnaire and interview to collect the data on human and system information requirements. We did some preparation before the interview section. First, we researched the background material. After that, we determined the objectives of the interview. We decided to choose the printing shop owner as our interviewee so that we can understand the problems of the system and the features needed in the new system. Then, we discuss the questions to be asked during the interview.

## 5.2 Interview and Questionnaire

### 5.2.1 Questionnaire:

For the questionnaire section, we use google form to disseminate our questions to students who are in UTM. For this questionnaire, we have divided it into two parts. In the first part, the question given is for the current system and in the second part related to the future system.

#### PART 1

College

Your answer

1. If there is a printing and thesis service online, would you like to use it? \*

☐ Yes

☐ No

2. What is your reason in No 1? \*

Your answer

3. If your answer is Yes, what type of platform do you prefer to use?

☐ Website

☐ Mobile Application

4. How likely will you use printing service at UTM? \*

☐ Like it very much

☐ Good

☐ Not so much

☐ Not like it

5. How much time do you spend to use the service in the printing shop? \*

☐ Sometimes

☐ Rarely

☐ Frequently

6. Currently, the Thesis Binding UTM takes their orders using WhatsApp. Do you find it easy to place an order via WhatsApp? \*

☐ Yes

☐ No

7. What are other problem that you face when you use the service in the printing shop besides in No 6?

Your answer

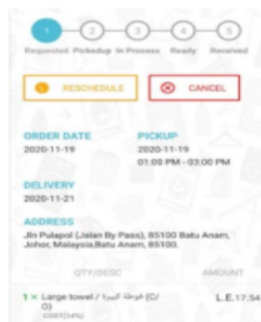
## PART 2

1. Is it better for a printing shop (Thesis Binding UTM) to provide an application? \*

☐ Yes

☐ No

2. Is it important to know the process of your document in the application? Either still made or ready like in the picture. (Example of delivery service process) \*



☐ Yes

☐ No

3. Is it important for this application to provide different payment methods? for example, cash on delivery, via transfer, or scan QR code. \*

☐ Yes

☐ No

4. These are the services that are in our application: did you think all these services is a must for student and need to have it in the application? \*

- Printing
- Hardcover/Binding
- Binding – tape/ ring
- Booklet
- Photostat
- Thesis Formatting
- Thesis printing
- Burn file in cd
- Cd with sticker
- Meet your SV for signature
- Submit to faculty (Any Faculty in UTM)

☐ Yes

☐ No

5. Is it important for you to view your document history in the application? \*

☐ Yes

☐ No

6. Will this app make your work easier and save you time? \*

☐ Yes

☐ No

7. Will you be interested in using the printing shop application for Thesis Binding UTM after you answer the all question above? \*

☐ Yes

☐ No

8. Any suggestion to improve our application service/interface? \*

Your answer

---

### 5.2.2 Interview:

There are a total of six questions asked in the interview, which are four closed questions followed by two open-ended questions. The question structure is a pyramid structure. We choose to use the pyramid structure because it allows for more generalized responses. It is useful when the interviewees need to be warmed up to the topic or seem reluctant to address the topic.

| Type of questions   | Interview questions |  |
|---------------------|---------------------|--|
| <b>Introduction</b> | Interviewer:        | Good evening, Pn Alia. I am Koh Xin Yi, a second-year student from the Faculty of Engineering. My friends, Nur Hidayah, NurSyafarina, Ong Yin Ren and I currently carry out a project of course SAD and Database. We need to analyze problems of a system and design solutions to improve the current system. We decided to choose your Thesis Binding UTM shop as our case study. So, I am now representing my group members to have an interview with you. Are you free to answer some questions for me now? |
|                     | Interviewee:        | Good evening, Xin Yi. Yes, sure.   |
| <b>CLOSED</b>       | Interviewer:        | Thank you for spending your time to answer my questions. Without wasting your time, let's start the interview. The first question, <b>do you face any problem with your current system?</b>  |
|                     | Interviewee:        | No problem so far, everything is in good condition. Even if there is a problem that happened, it is not a big deal.  |
| <b>CLOSED</b>       | Interviewer:        | <b>Have your sales increased in the past few years?</b>  |
|                     | Interviewee:        | Yes, my sales increased in the last few years.   |

|                         |              |   |
|-------------------------|--------------|---|
| <b>CLOSED</b>           | Interviewer: | <b>Which group of people are your majority customers?</b>   |
|                         | Interviewee: | My customers are mostly students from university.   |
| <b>CLOSED</b>           | Interviewer: | I see. <b>Do you think your current system is efficient and safe?</b>   |
|                         | Interviewee: | I think my system is not efficient enough and safe yet. However, I will find a more proper and safe system. I hope there is a proper system for me.   |
| <b>OPEN-ENDED</b>       | Interviewer: | If we propose a new online system for you, <b>what feature do you wish to have in the new online system?</b>  |
|                         | Interviewee: | I hope there is a system where the students can place their order through the system and complete the payment together. Our behalf can clearly understand the customers' request, and no problem exists until the order is completed. |
| <b>OPEN-ENDED</b>       | Interviewer: | <b>How did you think a new online system helps to reduce your cost?</b>   |
|                         | Interviewee: | If I have that system, I think the working procedure will be smoother and more efficient. I believe it can ease my working burden.  |
| <b>End of interview</b> | Interviewer: | Alright. Now I get your thoughts. It has come to the end of this interview. Once again, I would like to say thank you for allowing us to carry this interview with you. Thank you for your precious time.                             |
|                         | Interviewee: | Alright. You are most welcome.  |

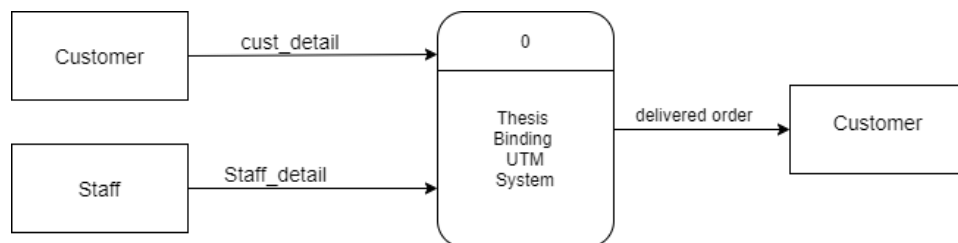
## 6.0 Requirement Analysis

### 6.1 Current business process

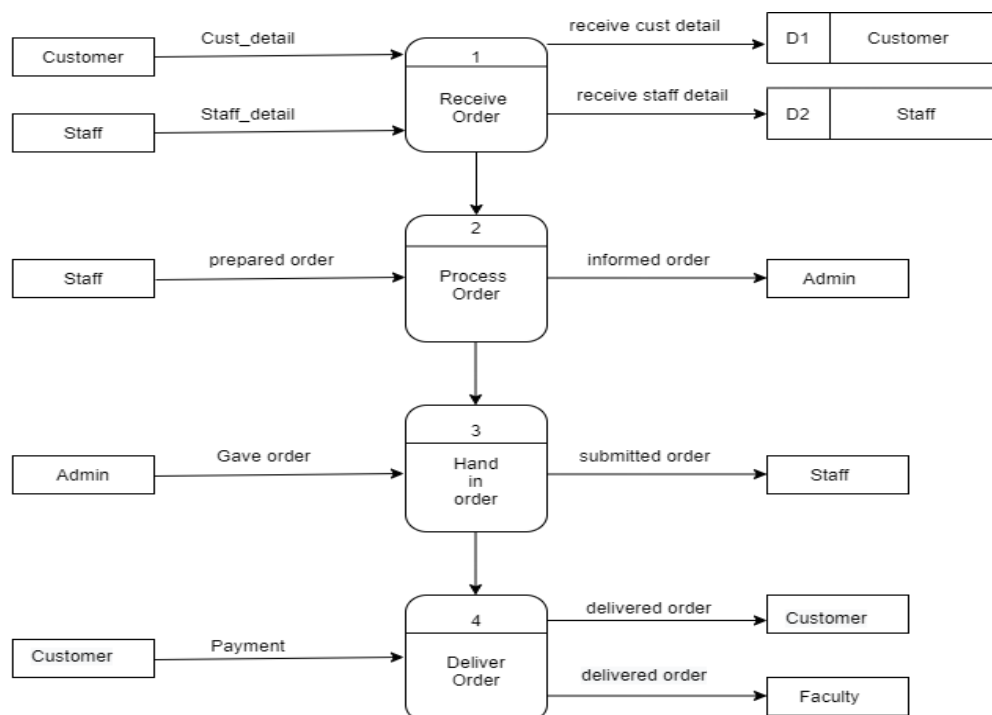
Current system customers will send their work through whatsapp. One of the printing shop's staff, which is the admin, will record details of customers in Microsoft excel. Then, the staff will process the customer's document. Admin will help staff when not receiving any document from customers. When the document is ready, staff will inform the admin to get the details of the customer to deliver. There is also a delivery service to any faculty and also to get SV signature. Customers will make payment after the staff deliver to them.

### 6.2 Functional Requirement

#### 6.2.1 Context Diagram



#### 6.2.2 O Diagram



Cust\_detail →  
Customer detail consist of name,matric number,telephone number,faculty,residence college and softcopy work

Staff\_detail →  
Staff detail consist of name and telephone number



### 6.3 Non-functional Requirement

|                    |  |
|--------------------|--|
| <b>Performance</b> | <ul style="list-style-type: none"><li>- Able to manage data of customers</li><li>- Able to receive the order immediately</li><li>- Able to reply customer message in a short time</li><li>- Allow users to place their order simultaneously</li><li>- Able to recover in a super short time when the system crashed</li><li>- Allow different types of transactions such as online banking and cash..</li><li>- The privacy of the user is being protected</li><li>- The response time for every action must not exceed 8 seconds.</li></ul> |
| <b>Control</b>     | <ul style="list-style-type: none"><li>- Enable multiple languages such as English, Bahasa Melayu and Chinese to adopt the diversity of race in Malaysia</li><li>- Provide the shortest placing order procedure to the users</li><li>- Provide an easy access system</li><li>- Restrict the user from proceeding the order when the users do not complete the order detail.</li></ul>   |

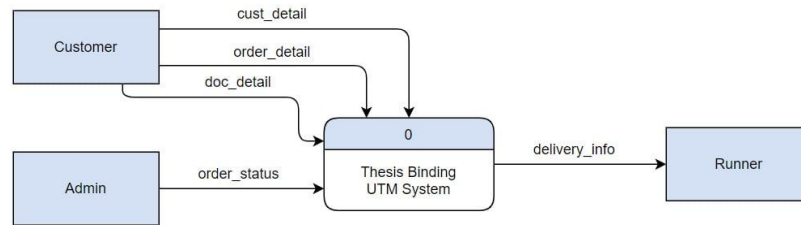
#### 6.4 Data requirement

| Entity          | Data to be stored  | Requirements of Data  |
|-----------------|--|---|
| <b>Customer</b> | <ol style="list-style-type: none"> <li>1. Name</li> <li>2. Phone number</li> <li>3. Shipping address</li> </ol>  |   |
| <b>Document</b> | <ol style="list-style-type: none"> <li>1. Document name</li> <li>2. Price</li> <li>3. Stock quantity</li> <li>4. Type of document</li> <li>5. Characteristic of document</li> </ol>                          | <p>[3] Price shown should be included with tax GST. No further add on after that.</p> <p>[6] Characteristic document such as pages, color, set</p>                                |
| <b>Order</b>    | <ol style="list-style-type: none"> <li>1. Order number</li> <li>2. Order time</li> <li>3. Order status</li> <li>4. Quantity</li> <li>5. Subtotal</li> <li>6. Delivery Fee</li> <li>7. Grand price</li> </ol> | <p>[1] Order number written by staff.</p> <p>[5] Subtotal = (price*quantity) whereas the price refers to the Document entity</p> <p>[7] Grand price = subtotal + delivery fee</p> |
| <b>Staff</b>    | <ol style="list-style-type: none"> <li>1. Staff name</li> <li>2. Staff ID</li> <li>3. Staff's phone number</li> <li>4. Order picked up</li> <li>5. Order delivered</li> </ol>                                | <p>[2] Every Staff have their own ID</p>  |
| <b>Payment</b>  | <ol style="list-style-type: none"> <li>1. Payment method</li> <li>2. Total payment</li> </ol>  | <p>[1] Payment method is customer can choose to pay cash on delivery or via transfer</p>  |

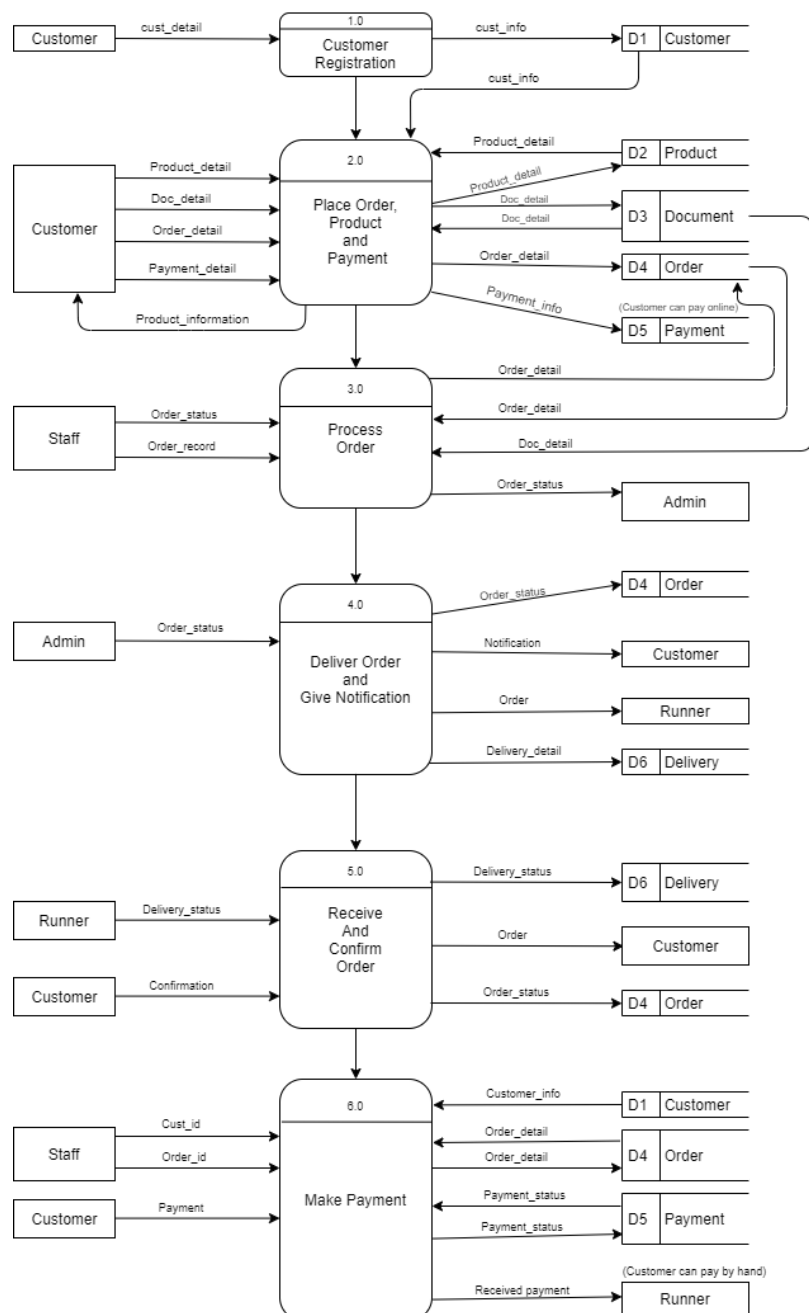
## 7.0 System Analysis and Specification

### 7.1 Logical DFD of the To-Be system

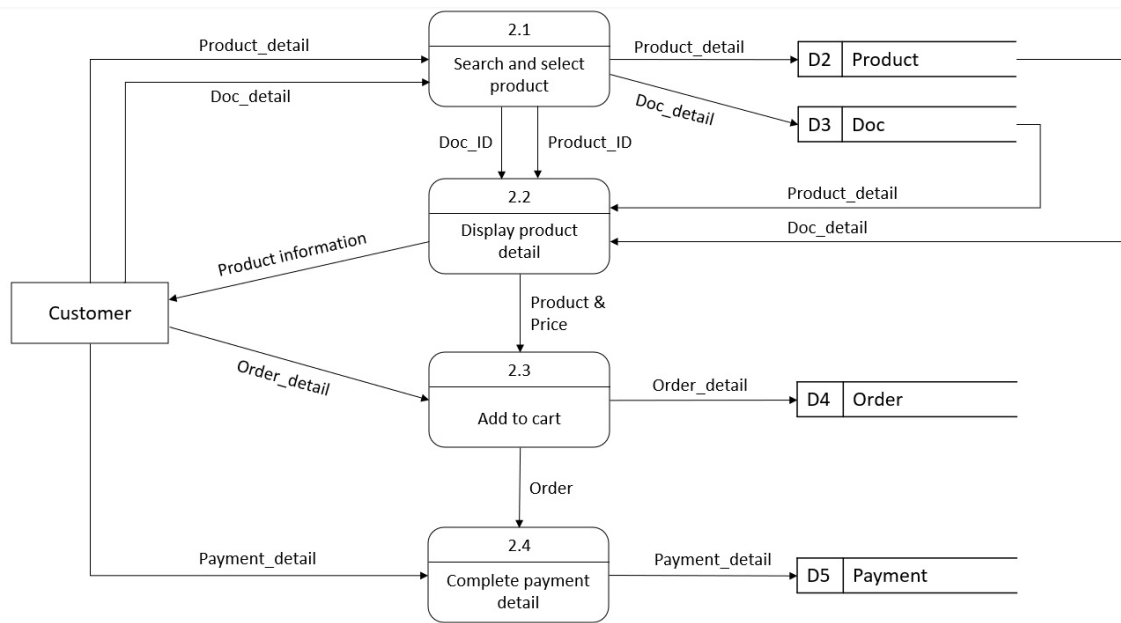
#### 7.1.1 Context Diagram



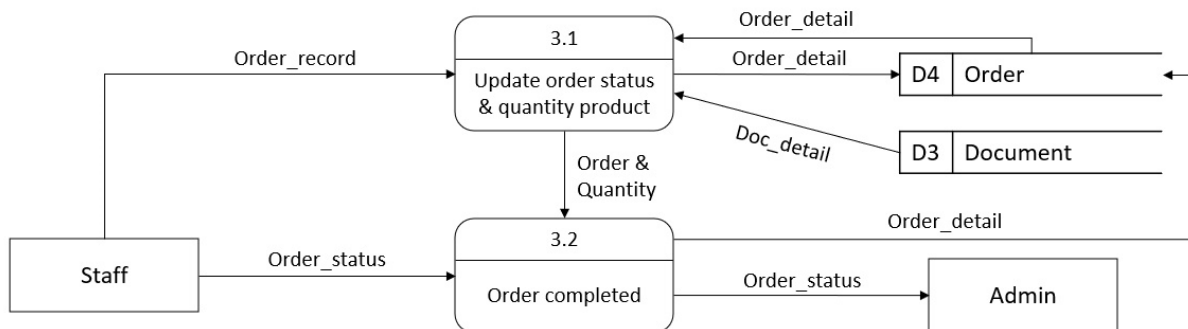
#### 7.1.2 O Diagram



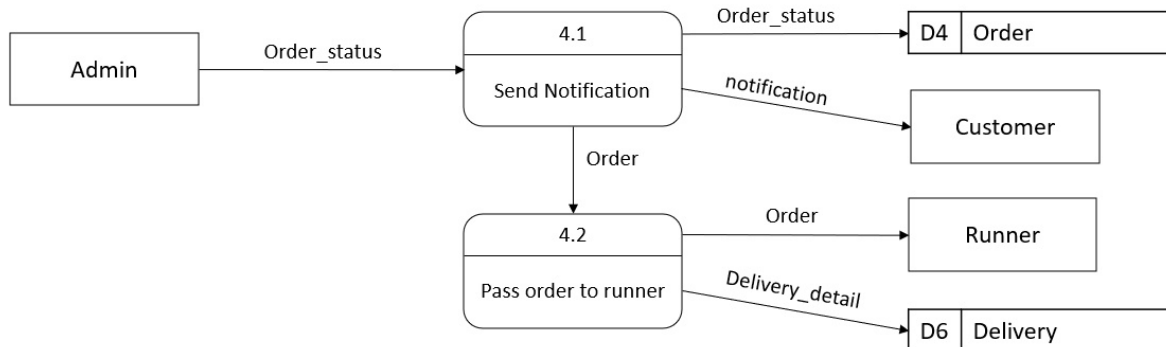
### 7.1.3 Child Diagram for Process 2



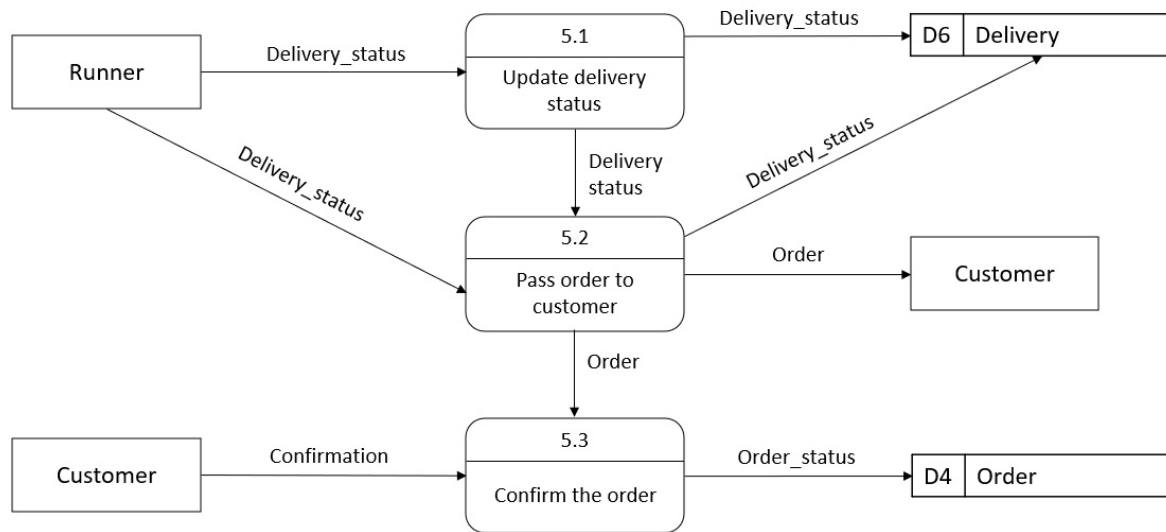
### 7.1.4 Child Diagram for Process 3



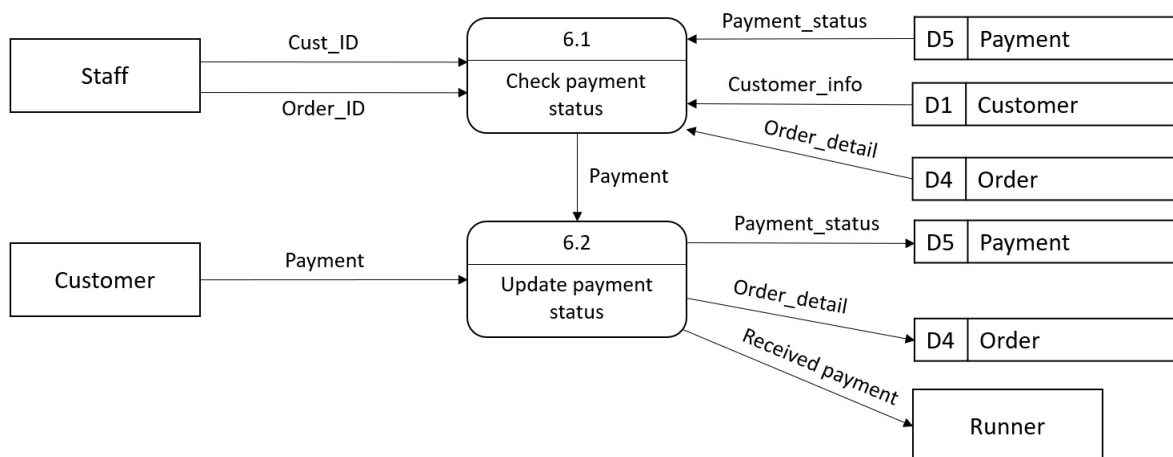
### 7.1.5 Child Diagram for Process 4



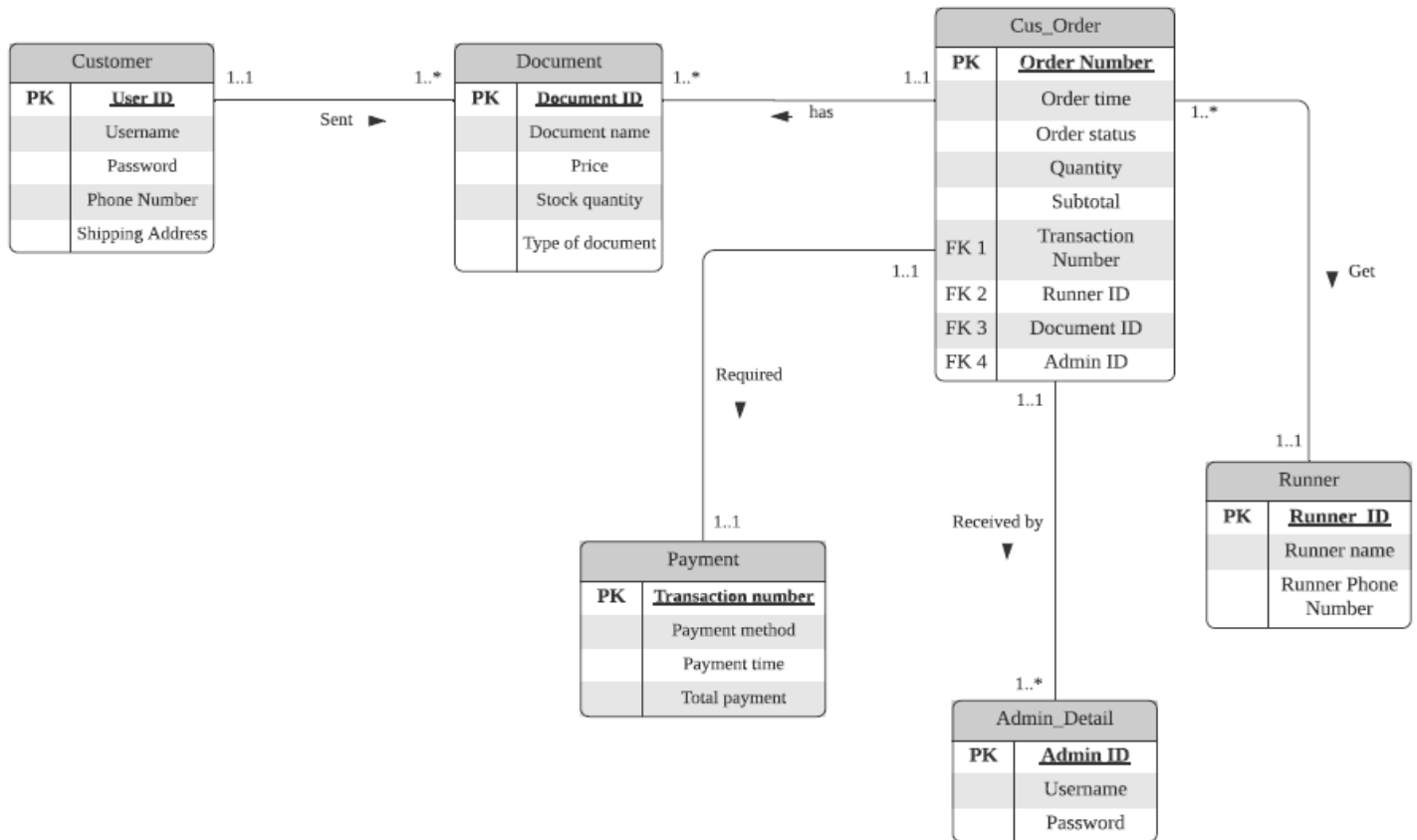
### 7.1.6 Child Diagram for Process 5



### 7.1.7 Child Diagram for Process 6



## 7.2 ERD



## 7.3 Data Dictionary

| Entity Name | Attribute        | Description                            | Data Type & Length    | Nulls | Multivalued |
|-------------|------------------|--|-----------------------|-------|-------------|
| Customer    | User ID          | Uniquely identify a customer           | Number                | No    | No          |
|             | Username         | Username for customer                  | 30 variable character | No    | No          |
|             | Password         | Password for the customer              | 20 variable character | No    | No          |
|             | Phone Number     | Phone number of customer               | Number                | No    | No          |
|             | Shipping Address | Address of customer                    | 50 variable character | No    | No          |
| Document    | Document ID      | Uniquely identify document             | Number                | No    | No          |
|             | Document name    | Name of document                       | 30 variable character | No    | No          |
|             | Price            | Price of document                      | Decimal               | No    | No          |
|             | Stock quantity   | Quantity of document customer purchase | Number                | No    | No          |
|             | Type of document | Type of document customer purchase     | 10 variable character | No    | No          |

|              |                     |  |                       |    |    |
|--------------|---------------------|--|-----------------------|----|----|
| Cus_Order    | Order Number        | Uniquely identify order                        | 20 variable character | No | No |
|              | Order time          | Time of order will deliver                     | Timestamp             | No | No |
|              | Order status        | Status of order                                |                       |    |    |
|              | Quantity            | Quantity of document in an order               | 30 variable character | No | No |
|              | Subtotal            | Total price of document in an order            | Number                | No | No |
|              | Transaction Number  | Foreign key references DOCUMENT (Document ID)  | Decimal               | No | No |
|              | Runner ID           | Foreign key references Runner (Runner id)      | Number                | No | No |
| Runner       | Document ID         | Foreign key references Admin_Detail (Admin ID) | Number                | No | No |
|              | Admin ID            |  |                       |    |    |
|              |                     |  |                       |    |    |
| Admin_Detail | Runner ID           | Uniquely identify runner id                    | Number                | No | No |
|              | Runner name         | Name of runner that deliver document           | 30 variable character | No | No |
|              | Runner Phone Number | Phone number of runner                         | Number                | No | No |
| Payment      | Admin ID            | Uniquely identify admin id                     | Number                | No | No |
|              | Username            | Name to log into the application               | 30 variable character | No | No |
|              | Password            | Key to login with the id successfully          | 20 variable character | No | No |
| Payment      | Transaction number  | A reference for the customer to the shop       | Number                | No | No |
|              | Payment method      | Types of method to make payment                | 30 variable character | No | No |
|              | Payment time        | Time of making the payment                     | Timestamp             | No | No |
|              | Total payment       | Total payment pay by the customer              | Decimal               | No | No |

## **7.4 Process Specification**

### **Process 1 (Customer) :**

Customer open Printing shop application

IF customer have an account

Click “Login”

ELSE IF customer do not have an account

Click “Register”

ENDIF

### **Process 2 (Customer):**

Customer upload document

Customer input number of copy of document

IF customer want to remove document and number of copy document

Click “Clear”

ELSE IF customer want to proceed

Click “Submit”

ENDIF

### **Process 3 (Customer):**

Customer view order cart

IF customer want to go back to upload document process

Click “Back”

ELSE IF customer want to proceed to check out

Click “Check out”

ENDIF

### **Process 4 (Customer):**

Customer view payment part

IF customer want to go back to view order cart

Click “Back”

ELSE IF customer want to proceed confirm order

Click “Confirm and Proceed

ENDIF



**Process 5 (Admin):**

GET Username

GET Password

Click “Login”

**Process 6 (Admin):**

Admin view all customers’ order

IF Admin want to view customer’s order in detail

    Click “Document ID” of that customer

ELSE IF Admin want to delete order of customer

    Click Document ID of that customer

    Click “Delete”

ELSE IF Admin want to Update customer’s order

    Click Document ID of that customer

    Click “Edit”

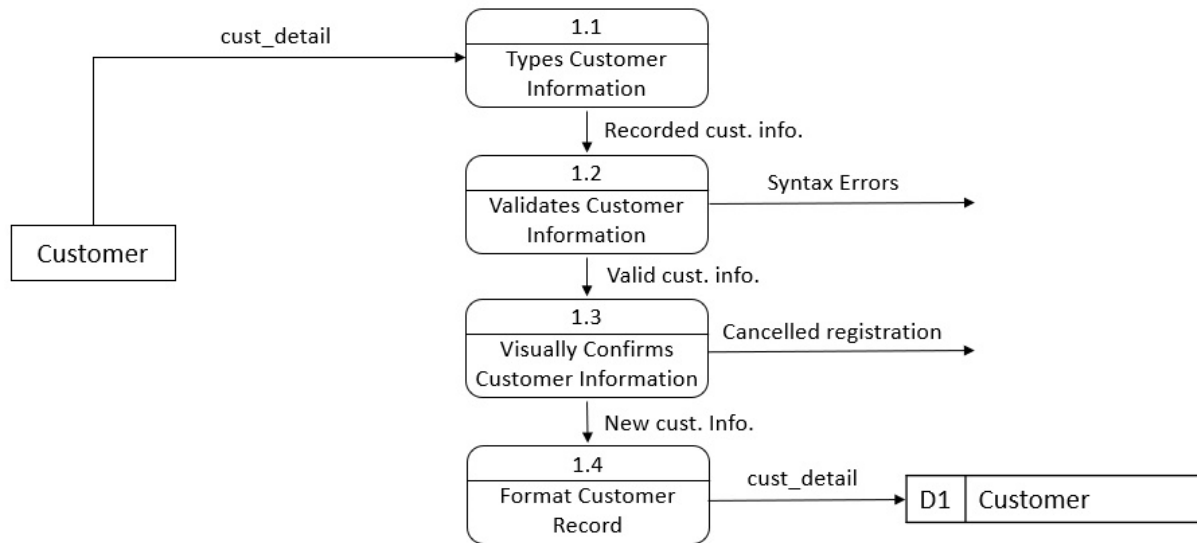
    Fill in form

ENDIF

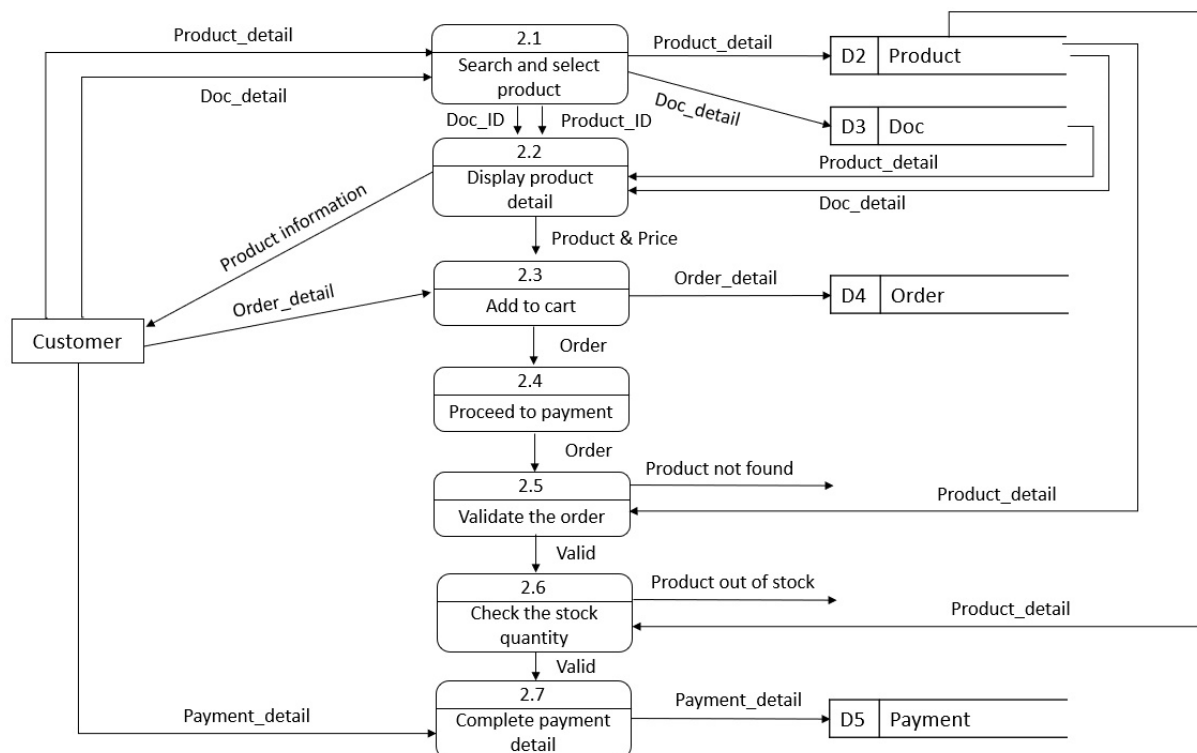
## 8.0 System Design

### 8.1 Physical DFD of the To-Be system

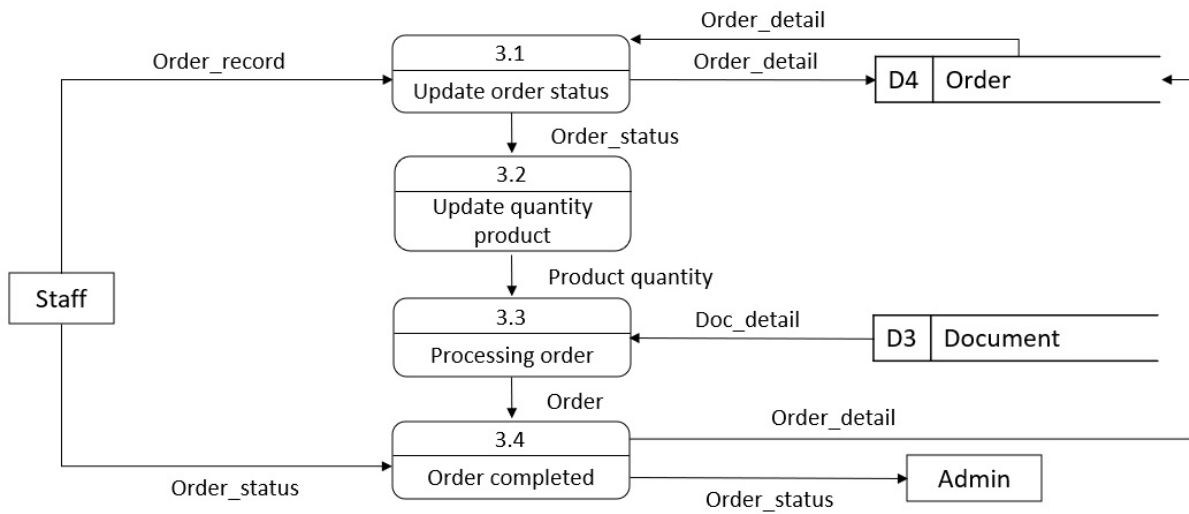
#### 8.1.1 Child Diagram for Process 1



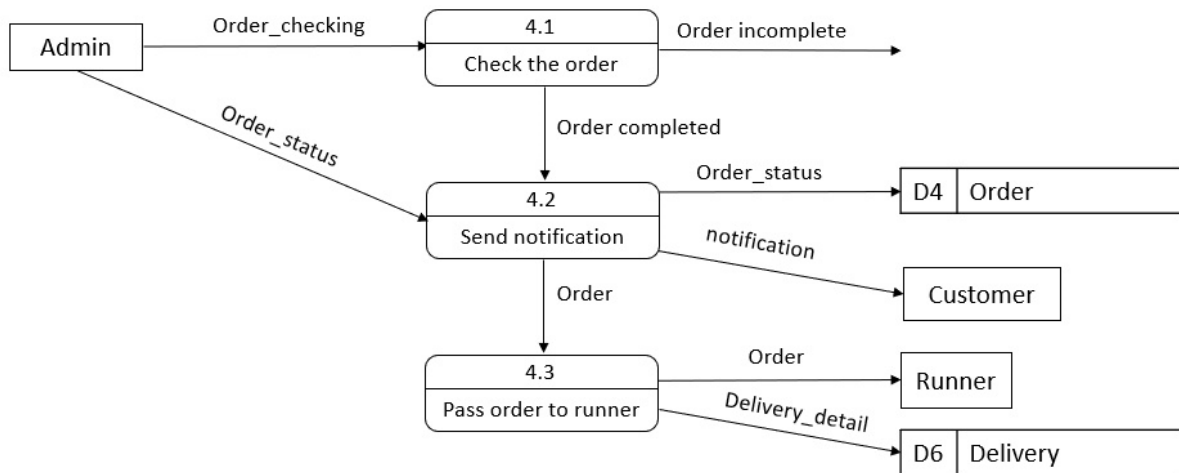
#### 8.1.2 Child Diagram for Process 2



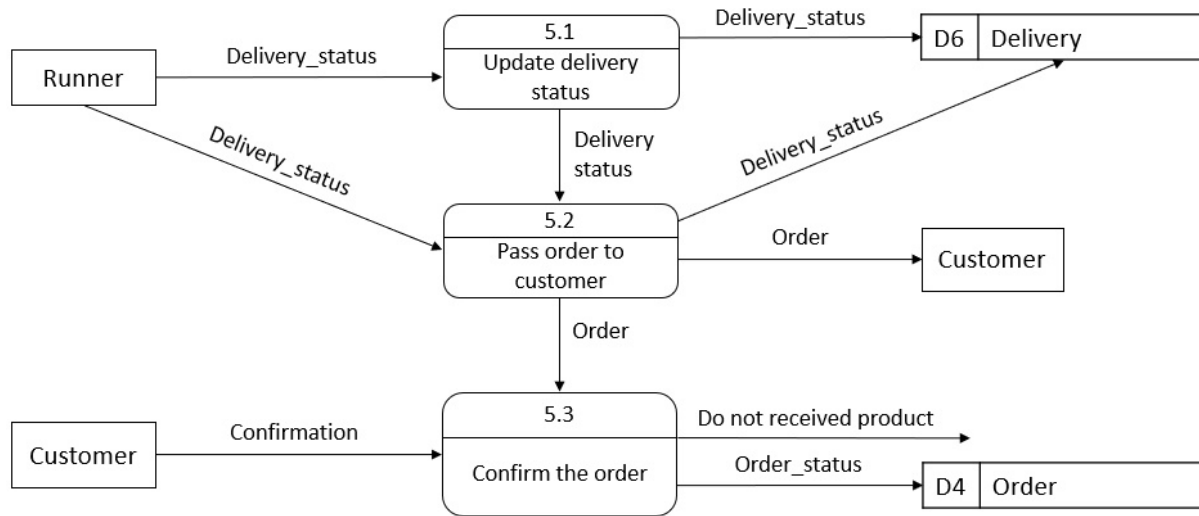
### 8.1.3 Child Diagram for Process 3



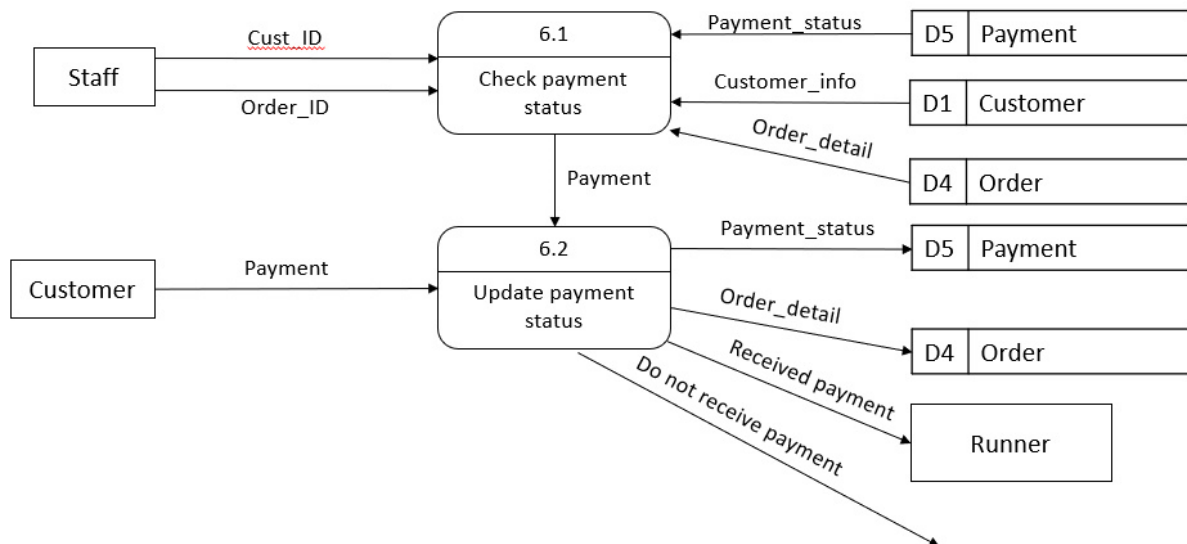
### 8.1.4 Child Diagram for Process 4




### 8.1.5 Child Diagram for Process 5




### 8.1.6 Child Diagram for Process 6




## 8.2 Interface Design (GUI)




**Printing Shop**  
Kolej Tun Canselor




Printing



Binding



Thesis Formating



Burn CD

Not have any account yet?

Register

Already have an account? [Login](#)

### REGISTRATION

Name:

Phone number:

State:

Area:

Postal Code:

Detailed Address:

### REGISTRATION

Username:

Email address:

Password:


Confirm Password:

### LOGIN

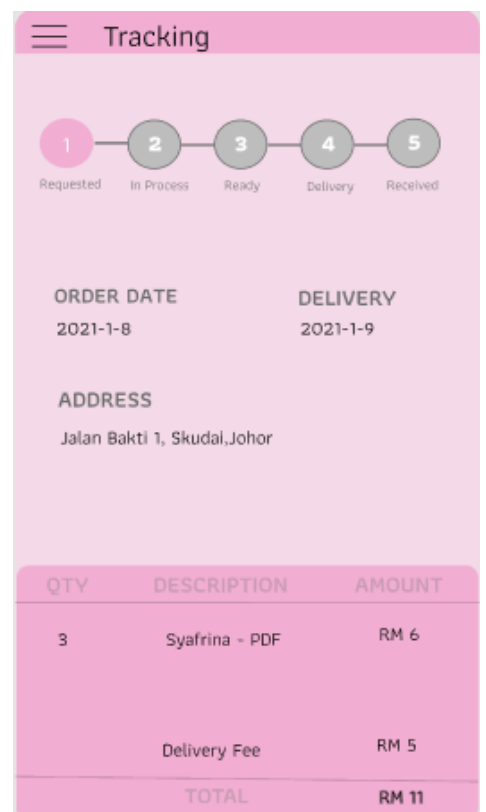
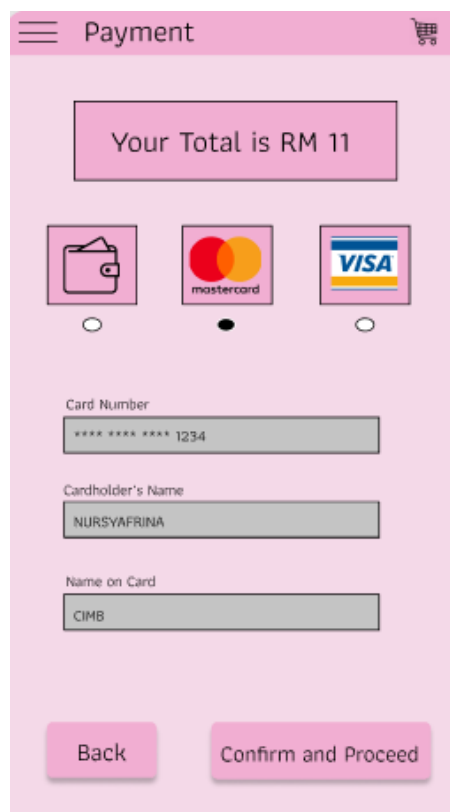
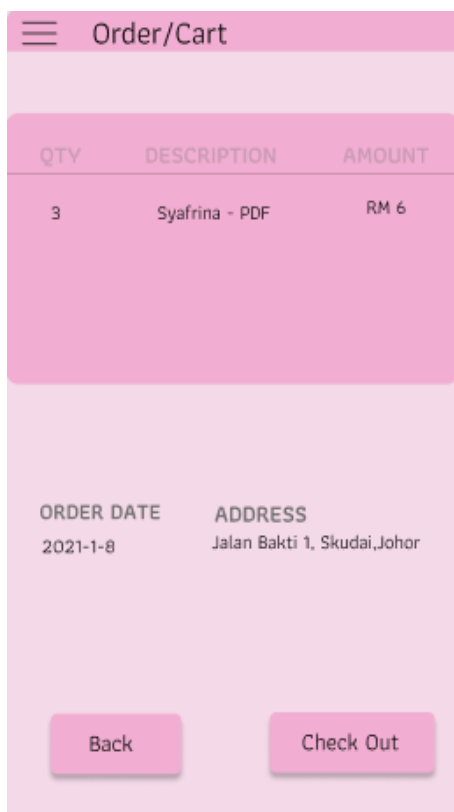
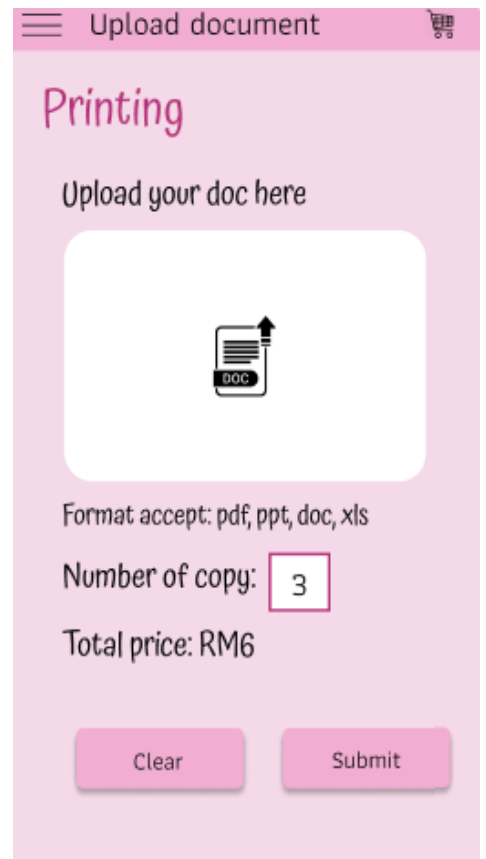
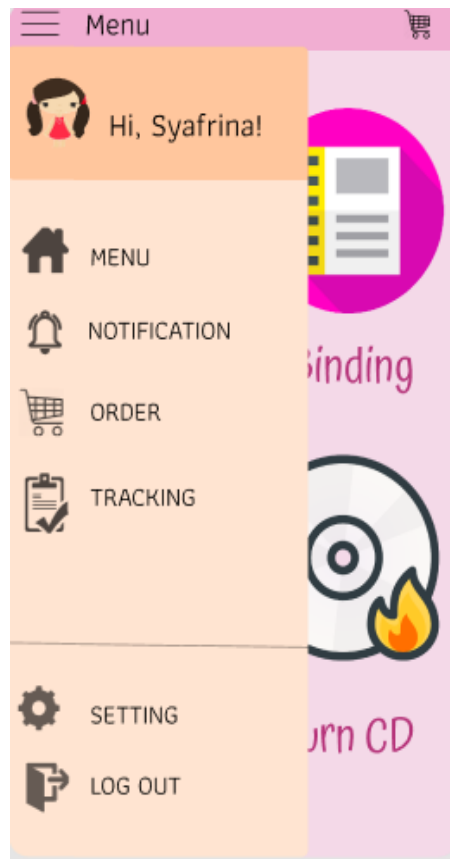
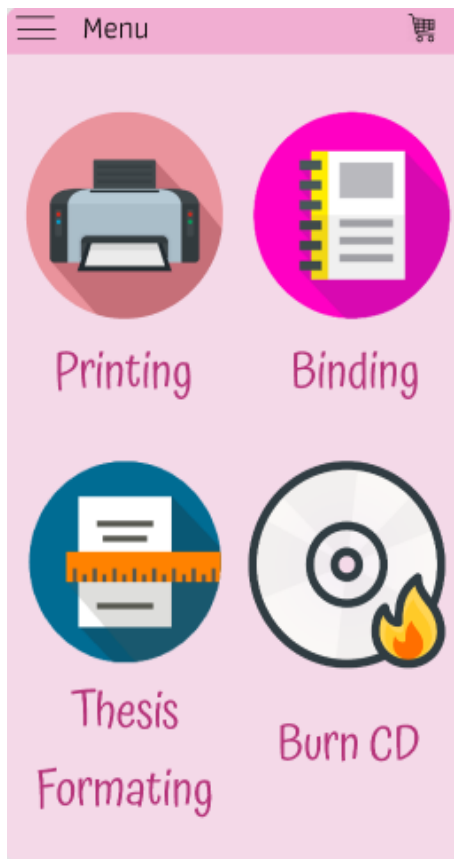
Username:

Password:

### PROFILE



|          |                           |
|----------|---------------------------|
| Name     | Nur Syafrina              |
| Username | Nur Syafrina              |
| Phone    | *****56                   |
| Email    | syaf@gmail.com            |
| Address  | Jalan Bakti 1, Skudai, JB |



### LOGIN

Username:

Password:

### CUSTOMER ORDER

| Order ID | Order Time                      | Order Status | Quantity | Subtotal | Document ID | Transaction Number | Runner |
|----------|---------------------------------|--------------|----------|----------|-------------|--------------------|--------|
| A001     | 01-JAN-20<br>11.30.31.000000 AM | YES          | 2        | 2.00     | 18690       | 18523              | 165498 |
| A230     | 01-JAN-20<br>05.30.31.000000 PM | NO           | 6        | 6.00     | 17745       | 18596              | 165500 |
| A485     | 02-JAN-20<br>06.00.31.000000 PM | YES          | 5        | 5.00     | 16580       | 18790              | 166700 |
| A500     | 02-JAN-20<br>10.00.31.000000 AM | NO           | 1        | 1.00     | 15000       | 19780              | 17600  |
| A003     | 02-JAN-20<br>04.00.31.000000 PM | NO           | 4        | 4.00     | 14500       | 17000              | 18690  |

### DOCUMENT

| User ID | Document ID | Document Name | Document Type | Quantity | Subtotal | Order Status | Runner | Order Time                      |
|---------|-------------|---------------|---------------|----------|----------|--------------|--------|---------------------------------|
| 1670    | 18690       | Syafrina      | PDF           | 2        | 2.00     | YES          | 165498 | 01-JAN-20<br>11.30.31.000000 AM |

### CUSTOMER ORDER

| Order ID | Order Time                      | Order Status | Quantity | Subtotal | Document ID | Transaction Number | Runner |
|----------|---------------------------------|--------------|----------|----------|-------------|--------------------|--------|
| A001     | 01-JAN-20<br>11.30.31.000000 AM | YES          | 2        | 2.00     | 18690       | 18523              | 165498 |
| A230     | 01-JAN-20<br>05.30.31.000000 PM | NO           | 6        | 6.00     | 17745       | 18596              | 165500 |
| A485     | 02-JAN-20<br>06.00.31.000000 PM | YES          | 5        | 5.00     | 16580       | 18790              | 166700 |
| A500     | 02-JAN-20<br>10.00.31.000000 AM | NO           | 1        | 1.00     | 15000       | 19780              | 17600  |

### DELETE ORDER

Order ID

Quantity

Document ID

Subtotal

Runner

### EDIT ORDER

Order ID

Quantity

Document ID

Subtotal

Order Status

Runner

[Update](#)

### CUSTOMER ORDER

| Order ID | Order Time                      | Order Status | Quantity | Subtotal | Document ID | Transaction Number | Runner |
|----------|---------------------------------|--------------|----------|----------|-------------|--------------------|--------|
| A001     | 01-JAN-20<br>11.30.31.000000 AM | YES          | 2        | 2.00     | 18690       | 18523              | 165498 |
| A230     | 01-JAN-20<br>05.30.31.000000 PM | YES          | 6        | 6.00     | 17745       | 18596              | 165500 |
| A485     | 02-JAN-20<br>06.00.31.000000 PM | YES          | 5        | 5.00     | 16580       | 18790              | 166700 |
| A500     | 02-JAN-20<br>10.00.31.000000 AM | NO           | 1        | 1.00     | 15000       | 19780              | 17600  |

[Delete](#)

[Edit](#)

[Notify Runner](#)



## Appendix

### Meeting Logs for Phase A1

**Date:** 17<sup>th</sup> November 2020

#### Attendance:

| Team-mate name             | Signatures |
|----------------------------|------------|
| 1. NURSYAFRINA BINTI AHMAD |            |
| 2. ONG YIN REN             |            |
| 3. KOH XIN YI              |            |
| 4. NUR HIDAYAH BINTI HAMRI |            |

#### Discussion Results/Findings:

We discuss the cost and benefit of the system, and we calculate the profitability index and find out that it is greater to 1. After that, Syafrina assigned the role of each member, and everyone agreed with their position. Besides that, we identify the timeline and evaluation of the system, then we complete the Pert Chart and Gantt Chart. We also discuss the benefit of the system and do summarization of the system.

#### Contributions/Ideas:

| Team-mate name             | Contributions/Ideas  |
|----------------------------|--|
| 1. NURSYAFRINA BINTI AHMAD | <ul style="list-style-type: none"><li>- Proposes some idea during the discussion.</li><li>- Complete the Gantt Chart and Human Resource.</li></ul>                   |
| 2. ONG YIN REN             | <ul style="list-style-type: none"><li>- Proposes some idea during the discussion.</li><li>- Complete the cost benefit analysis.</li></ul>                            |
| 3. KOH XIN YI              | <ul style="list-style-type: none"><li>- Proposes some idea during the discussion.</li><li>- Complete the cost benefit analysis, benefit and summarization.</li></ul> |
| 4. NUR HIDAYAH BINTI HAMRI | <ul style="list-style-type: none"><li>- Proposes some idea during the discussion.</li><li>- Complete the Gantt Chart, Pert Chart and WBS.</li></ul>                  |

## Meeting Logs for Phase A2

**Date:** 7<sup>th</sup> December 2020

### Attendance:

| Team-mate name             | Signatures |
|----------------------------|------------|
| 1. NURSYAFRINA BINTI AHMAD |            |
| 2. ONG YIN REN             |            |
| 3. KOH XIN YI              |            |
| 4. NUR HIDAYAH BINTI HAMRI |            |

### Discussion Results/Findings:

We divided the tasks into 2 which are Hidayah and Xin Yi handle questionnaires and Syafrina and Yin Ren handle DFD diagrams. We use google form as a platform to ask opinion from the target user which is a student from any college in UTM. We also decide to have an interview with the owner of the shop.

### Contribution/Ideas:

| Team-mate name            | Contribution/Ideas  |
|---------------------------|---|
| 1)NURSYAFRINA BINTI AHMAD | -Propose rough idea for DFD Diagram.  |
| 2)ONG YIN REN             | -Give some idea to improve context and O diagram.   |
| 3)KOH XIN YI              | -Propose some question.<br>-Identify whether to use funnel, pyramid or diamond based on the question. |
| 4)NUR HIDAYAH BINTI HAMRI | -Propose some question<br>-Make google form to blast the question.                                    |

## Meeting Logs for Phase A3

**Date:** 10<sup>th</sup> January 2021

### Attendance:

| Team-mate name             | Signatures |
|----------------------------|------------|
| 1. NURSYAFRINA BINTI AHMAD |            |
| 2. ONG YIN REN             |            |
| 3. KOH XIN YI              |            |
| 4. NUR HIDAYAH BINTI HAMRI |            |

### Discussion Results/Findings:

We discuss the conceptual entity relational diagram by determining the relationship between every entity in the system. We also revise the logical entity relational diagram after receiving our lecturer's feedback on Trello. Besides, we identify the data type and length of each attribute. The present of null value and multivalued also identified. We also do our interface design (GUI) by using figma.

### Contribution/Ideas:

| Team-mate name             | Contributions/Ideas  |
|----------------------------|--|
| 1. NURSYAFRINA BINTI AHMAD | <ul style="list-style-type: none"><li>- Complete the logical diagram 0.</li><li>- Complete the Data Dictionary.</li><li>- Complete the Process Specification.</li><li>- Do screen-design mock-up.</li></ul>              |
| 2. ONG YIN REN             | <ul style="list-style-type: none"><li>- Complete the logical ERD.</li><li>- Do screen-design mock-up.</li></ul>  |
| 3. KOH XIN YI              | <ul style="list-style-type: none"><li>- Complete the logical context diagram.</li><li>- Complete the logical child diagram.</li><li>- Complete the physical child diagram.</li><li>- Do screen-design mock-up.</li></ul> |
| 4. NUR HIDAYAH BINTI HAMRI | <ul style="list-style-type: none"><li>- Complete the conceptual ERD.</li><li>- Revise the logical ERD.</li><li>- Do screen-design mock-up and design interface for system.</li></ul>                                     |

## Meeting Logs for Phase A4

**Date:** 25<sup>th</sup> January 2021

### Attendance:

| Team-mate name             | Signatures |
|----------------------------|------------|
| 1. NURSYAFRINA BINTI AHMAD |            |
| 2. ONG YIN REN             |            |
| 3. KOH XIN YI              |            |
| 4. NUR HIDAYAH BINTI HAMRI |            |

### Discussion Results/Findings:

We complete our final report and assign video parts for each member. After that, we record the video presentation and compile all members' videos together.

### Contribution/Ideas:

| Team-mate name             | Contributions/Ideas  |
|----------------------------|--|
| 1. NURSYAFRINA BINTI AHMAD | - Finalise the report.<br>- Record the video presentation. |
| 2. ONG YIN REN             | - Finalise the report.<br>- Record the video presentation. |
| 3. KOH XIN YI              | - Finalise the report.<br>- Record the video presentation. |
| 4. NUR HIDAYAH BINTI HAMRI | - Finalise the report.<br>- Record the video presentation. |