

Coffee For Go! System Software Development Plan (SDP)

Version 1.0

SEMESTER MAC 2023 –OGOS 2023

GROUP: CS1104B

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Software Development Plan (SDP)	Date: 25/06/2023
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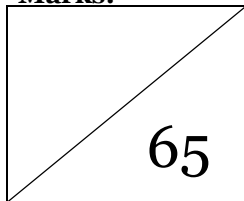
SDP Grading Rubric

Category	Remarks/Marks				
	Poor	Mediocre	Good	Excellent	Outstanding
History of organization	1	2	3	4	5
	Brief the history of the organization, vision, mission, (3 – 5 paragraphs). Provide a SWOT analysis.				
Organizational Chart	1	2	3	4	5
	Provide the hierarchy of the organization (provide diagram in appendix).				
Current System Description	1	2	3	4	5
	Specify the description of all processes involved in the organization (2 – 3 processes). For a better understanding, you may provide a flow chart/business process modelling.				
Current System Problem	1	2	3	4	5
	Specify 2 – 3 current problems faced by the organization (depends on the processes you have chosen). Provide fishbone diagram, or Ishikawa diagram				
Proposed System Process	1	2	3	4	5
	Provide a process which you propose based on the current problems above and current system processes you have chosen as above. For a better understanding, you may provide a flow chart.				
Proposed System Objectives	1	2	3	4	5
	What your product/information system (IS) can provide to users based on the processes you have chosen above.				
Proposed System Scopes	1	2	3	4	5
	Who are your stakeholders (user of the system) and the limitation of your product/information system (IS).				
Proposed System Entity and Attributes	1	2	3	4	5
	Provide Entity Relationship Diagram (ERD) in appendix.				
Organizational Structure	1	2	3	4	5
	Describe the organizational structure of the project team (Project Manager, Database Designer, Programmer 1, Programmer 2, and supervisor among lecturer.				
Roles and Responsibilities	1	2	3	4	5
	Provide your group member's formal picture and their responsibilities with job designation.				

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Project Plan	1	2	3	4	5
	Provide a Gantt chart (in appendix) showing the allocation of date to the project/product/information system phases, identify the major milestones with their achievement criteria and who are responsibility for each phase.				
Commercial values	1	2	3	4	5
	Analyze whether the project has commercial importance based on information given in the SDP.				
Documentation & Format	1	2	3	4	5
	Follow the documentation format with an appropriate arrangement and fulfilled requirements.				

Marks:



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Revision History

Date	Version	Description	Author
22/4/2023	1.0	Proposal	Muhammad Izzuddin bin Mohd Fathi
22/5/2023	1.1	Change of roles and responsibilities.	Eiman Damien bin Rohmat
25/6/2023	1.2	Change of external interface after developing the system.	Eiman Damien bin Rohmat

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Software Development Plan

1. Introduction

1.1 History of Organization

Coffee for Go! is one of the newest coffee shops in Kuala Terengganu. Coffee for Go! was established and operated after the MCO because the owner wanted to start a coffee shop because he had an interest in managing a coffee shop. The owner also has an obsession towards coffee beans making sure that he always wants to provide his customers high quality coffee drinks. The shop is a small lot in front of the house because the owner had an extra space in front of his house which is located at KTC Arena - LOT PT 1609 R HSD 6395 Pantai Batu Buruk Mukim, 20400 Kuala Terengganu, Terengganu. The employees that are working there are also his relatives because he wants his close relatives to have the experience of brewing coffees and having income while studying.

The organization's vision is to make their coffee shop one of the most popular cafes in Kuala Terengganu. They also want to be able to compete with other famous coffee shops in Kuala Terengganu. Other than that, they want to produce high quality coffee drinks for customers that come to their shops.

For the mission of this organization, they wish to provide not only a friendly but also comfortable atmosphere for the customers to enjoy quality drinks, foods and service at a reasonable price and help more people to fall in love with high quality coffee.

Lastly, the organization's objective is to become a coffee shop that is not only known for the coffees but also an environment to relax, socialize and study.

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1.1.2 SWOT Analysis

STRENGTHS	WEAKNESSES
<ul style="list-style-type: none"> • Positive environment • Unique experience for workers 	<ul style="list-style-type: none"> • System is operated manually • Poor management system.
OPPORTUNITIES	THREATS
<ul style="list-style-type: none"> • Capable of improvisations • Well known locally • Can be promoted through advertising on social media. 	<ul style="list-style-type: none"> • Competitive competitors. • Costly supplier

1.2 Organizational Chart

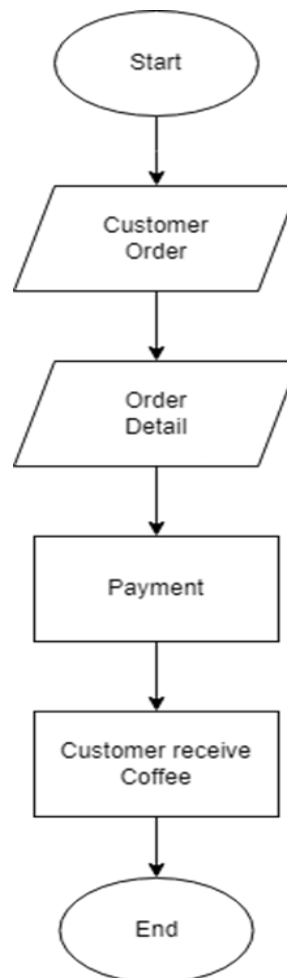
Refer to Appendix A

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1.3 Current System Description

The way this shop works now is to use books as a source to store data and orders are taken manually by writing on the surface of the paper.

1. Customers came to the shop counter to place an order and pay at the same time.
2. The food or drink ordered by the customer is recorded in a log book by a cashier.
3. Staff will make the order requested by the customer.
4. Prepared food and drinks will be given to customers at the counter

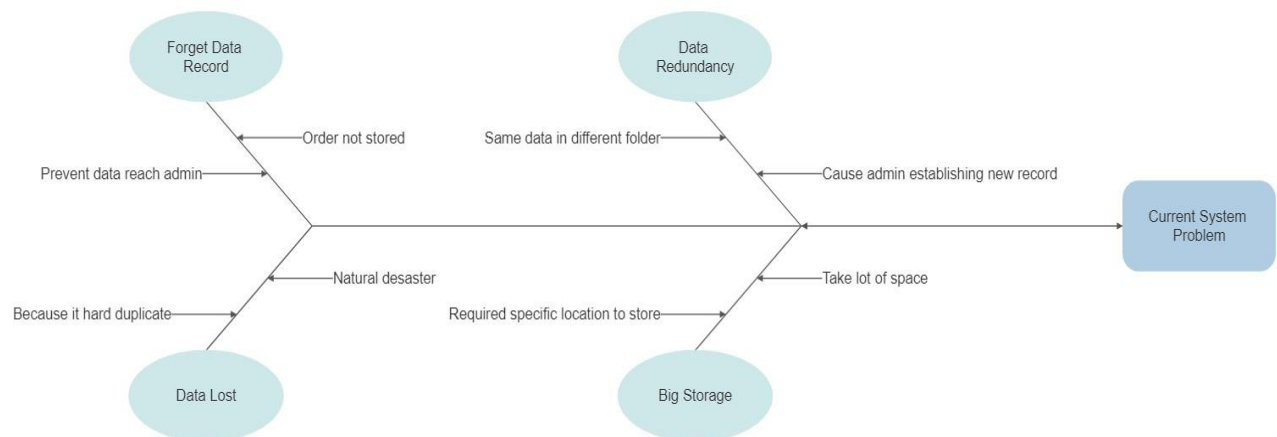


1.4 Current System Problem

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- Due to staff being too busy serving customers and forgetting to record data, some orders were not stored and documented, preventing data from reaching the admin.
- A case where two similar pieces of data are saved in two different folders results from the same customer purchasing different products at a different time and the administrator establishing a new record rather than updating the customer purchases and causes data redundancy
- Data loss is simple because it is hard duplicated. In the event of a natural calamity, data will be lost.
- Takes up a lot of space. For instance, a specific location was required to store customer information.

Ishikawa Diagram

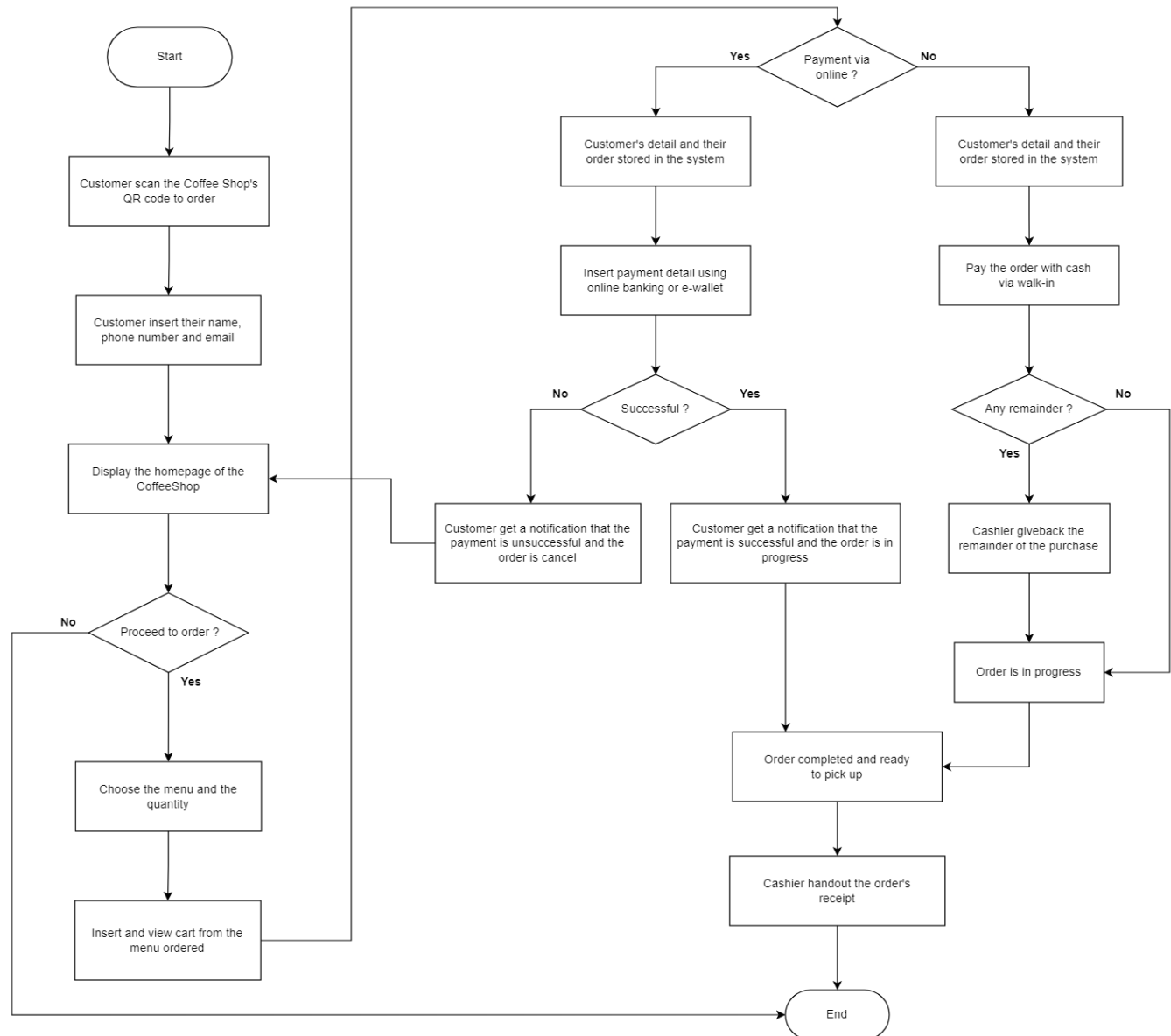


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2. Proposed Project Overview

2.1 Proposed System Process

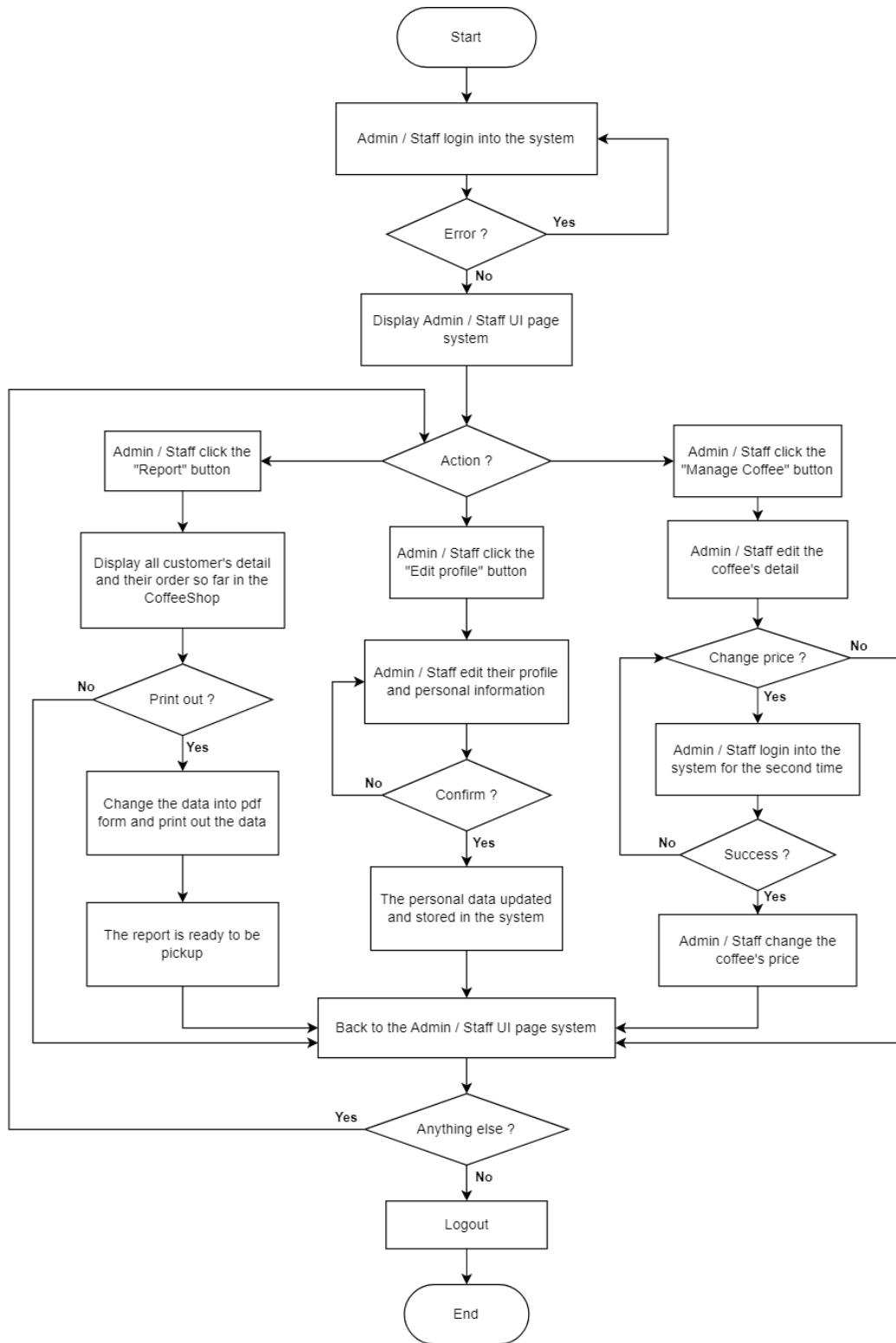
Customer



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Page

Admin



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2.2 Proposed System Objectives

- To design a computerized database and system
- To develop the Coffee Shop System
- To analyze all the problems that occur

2.3 Proposed System Scopes

In this system, the users are regular staff, administrator and customer The proposed system scope is:

- Order System

For this scope, only admin can create a new type of attributes or coffee type or dessert into the database. Admin can also view all the order details and be able to update the database if there are new menus or new staff. Admin and staff can also search and view individual orders that were made. The regular staff and customers can put data about the order details which is through offline order.

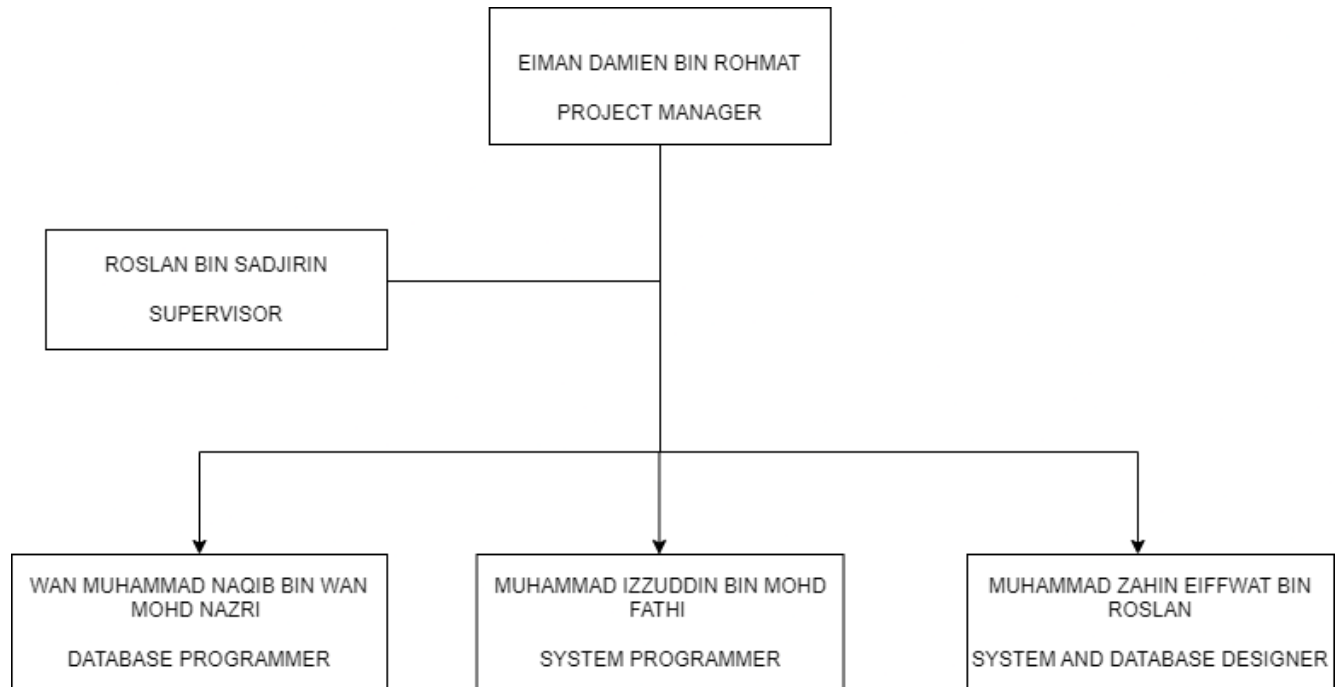
2.4 Proposed System Entity and Attributes

Refer to Appendix B

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3. Project Organization

3.1 Organizational Structure



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3.2 Roles and Responsibilities

	<p>Name: Muhammad Izzuddin bin Mohd Fathi Student ID: 2021893118 NRIC: 030609-10-0077 Contact Number: 016-926379 Email: izzuddinfathi0@gmail.com Role: System Programmer Responsibilities: Leading the team, planning the project and assigning tasks to the members, keeping track of the project's progress and setting deadlines for tasks while providing additional support.</p>
	<p>Name: Eiman Damien bin Rohmat Student ID: 2021466508 NRIC: 030916-10-0261 Contact Number: 018-2906167 Email: 2021466508@student.uitm.edu.my Role: Project Manager Responsibilities: Enhancing the system and making sure the system is running properly while doing back-end work.</p>
	<p>Name: Wan Muhammad Naqib bin Wan Mohd Nazri Student ID: 2021453086 NRIC: 030711-06-0307 Contact Number: 013-4658283 Email: 2021453086@student.uitm.edu.my Role: Database Programmer Responsibilities: Create the database for the system while doing back-end work.</p>
	<p>Name: Muhammad Zahin Eifwwat bin Mohd Rosli Student ID: 2021650186 NRIC: 030929-06-0203 Contact Number: 017-9154272 Email: 2021650186@student.uitm.edu.my Role: System and Database Designer Responsibilities: Designing the system and database as well as doing front-end work.</p>

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4. Management Process

4.1 Project Plan

ITEMS	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14
1. PLANNING														
A) TEAM SETUP & MEETING														
B) IS PROJECT IDENTIFICATION														
C) IS CLIENT IDENTIFICATION														
D) SDP SUBMISSION														
2) ANALYSIS														
A) PRODUCE ERD														
B) PRODUCE IS DFD														
C) ERD & DFD VERIFICATION WITH LECTURER/SUPERVISOR AND CLIENT														
D) SRS SUBMISSION														
3. DESIGN														
A) FINAL ERD VERIFICATION														
B) FINAL DFD VERIFICATION														
C) DESIGN INTENDED UI														
D) PRODUCE MASTER UI														
E) SDD SUBMISSION														
4. IMPLEMENTATION														
A) START CODING THE SYSTEM														
B) CONDUCT UNIT AND INTEGRATION TEST														
C) CONDUCT SYSTEM TEST														
D) CONDUCT UAT (CLIENT)														
5. MAINTENANCE														
A) BUGS FIXING AFTER SYSTEM TEST														
B) BUGS FIXING AFTER UAT														
6. IS PROJECT PRESENTATION														

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5.0 Commercial Plan

Our Coffee Shop System can ensure the coffee shop to be more efficient as it is more convenient to use a system in handling orders compared to handling the orders manually. Instead of the staff manually writing the customer orders, they can just input the customers' orders using the system and it will automatically be stored in the system. This can help the owner to use less space storing the data and just store the data in the database. The admin can also add a new type of menu in the data if the owner wants to create new types of dishes or introduce new types of coffee. This system is specifically only suitable for coffee shops and can be bought by any coffee shop if they are interested in the system. This shows that our system has a high commercial value in the market as coffee shops are a trend especially in Malaysia. It also proves how important our system is in the business market as it helps these coffee shop owners to operate more effortlessly.

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Appendix A

Organizational Chart

