



Software Development Project – Cover Sheet ASSIGNMENT

Instruction:

- Marks will be awarded for good presentation and thoroughness in your approach.
- Referencing Code: If you use some code, or ideas for code, which are taken or adapted from another source (book, magazine, internet, discussion forum, etc.), then this **must** be cited and referenced using the APA convention within your source code. Failure to reference code properly is considered as plagiarism.
- Complete this cover sheet and attach it to your project first page.
- This project is to be attempted by a group of 3-4 students.

Student declaration:

I declare that:

- We understand what is meant by plagiarism
- The implication of plagiarism have been explained to us by our lecturer
- This project is all our work and we have acknowledged any use of the published or unpublished works of other people.

Group Leader's Signature:  Date: February 5, 2022

Project Title: Bean Bros Wholesaler System		Intake: UCDF2005ICT(SE) & UCDF2005ICT(ITR)
Role	Name (TP Number)	Signature
Project Manager	Yip Zi Xian (TP059963)	
System Analyst	Kishanraj a/l A.Kalagayah (TP061345)	
Programmer	Ong Lit Tsen (TP060665)	
Programmer	Marcus Ong Jin Rong (TP060821)	

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1. Acknowledgement

I, behalf of my group members, extermely grateful to our supervisor, Ms. Salasiah Sulaiman for teaching us throughout this project. This project will not be possible without all the tips and guidances of Ms. Salasiah Sulaiman.

I would like to pay my speical regards to our lecturers, Dr. Dewi Octaviani, Dr. Fatemah Meskaran, Dr Kesava Pillai, Mr. Mohamad Firdaus Che Abdul Rani, Mr. Daniel Mago Vistro, for their resourceful and responsible teaching in passing the knowledge to us.

I would also like to express my gratitude to my group members, Mr. Ong Lit Tsen, Mr Marcus Ong Jin Rong, and Mr. Kishanraj a/l A.Kalagayah for an amazing job in completing their tasks respectively and take responsible of their assigned roles. Without them giving ideas and co-operating together, this project will not be done as scheduled.

Finally, I would like to acknowledgement the help of our classmate, with or without, as they accompanied us in class, supported and cheered for each other during hard times. I am glad to have them accompanying us through all semensters and looking forward to seeing them again in our pursuit of Degree.

2. Abstract

This project is to determine and test each group members' skills which have learnt in previous semester and to implement it into a software development project. Besides all the technical skills, soft skills like communication, time management, and task decision are also put to the test.

Bean Bros Wholesaler is a coffee bean producer and manufacturer which we farm our coffee beans and manufacture it. We also import coffee beans from various countries like Mexico, Argentina, etc. and retailing it in bulk. So, our customers will have more options to choose from other than our signature coffee bean.

As a wholesaler, huge amount of money are being transferred each time we made a deal with our customer, thus our website does not support online transaction in case of any unwanted problems. However, customers can purchase their subscription through our website as a form of supporting our company.

Our customers will make a pending order through our website and they will need to come to our company and make the payment face-to-face and they are allowed to inspect their coffee beans before completing their orders. Thus, we will not ask for any of our customers' payment details online.

Last but not least, the purpose of this project is for university assignment only, so a few assumptions, limitations, and improvements will be analysed and evaluated in Chapter 18.

3. Workload Matrix

Tasks	Yip Zi Xian	Kishanraj a/l K.Alagayah	Ong Lit Tsen	Marcus Ong Jin Rong
Acknowledgement	100%			
Abstract	100%			
Project Background				100%
Problem Context				100%
Proposed Solution				100%
Project Objectives	100%			
Project Scope	100%			
System Development Methodology		100%		
Project Gantt Chart	100%			
System Hierarchy Chart			100%	
Context Diagram		100%		
Data Flow Diagram Level 0			100%	
Entity Relationship Diagram	100%			
Screen Design			100%	
Report Design			100%	
User Manual				100%
Test Plan			100%	
Significant Source Codes	100%			
Conclusion				100%
References		100%		

Minutes of Meeting	100%			
Installation Guide	100%			
Signature				

** Ong Lit Tsen and Marcus Ong Jin Rong are in charge of developing the website.

** Kishanraj a/l K.Alagayah is in charge of research and documentation.

** Yip Zi Xian is in charge of both and supervising the team.

** All member done their individual part respectively, including data flow diagram level 1, data dictionary, and flowchart.

4. Introduction

4.1 Project Background

The Bean Bros Company is a coffee bean wholesaler company that was established by Mr Yip Zi Xian with the aid of Mr. Kishanraj a/l K.Alagayah, Mr. Marcus Ong Jin Rong, and Mr. Ong Lit Tsen to provide supplies of quality-assured coffee beans to coffee making companies and stores all around the globe. The project started off when Mr. Yip Zi Xian found out that his property has the suitable needs to mass produce high quality coffee beans. With that, he founded the Bean Bros Company to help produce high quality coffee beans to willing customers.

4.2 Problem Context

In this day and age, coffee as a drink has been becoming more and more popular. However, when a coffee making company decides to source the beans from outside suppliers, the quality of the beans may be cheap as to make way for the coffee making company to cut its costs on spending too much money on coffee beans. Not just that, the cheap coffee beans also means that the quality of the beans will also be cheapen out.

4.3 Proposed Solution

As based on the problem context, the Bean Bros Company has proposed a solution through the use of high-quality coffee beans such as Koa Coffee Beans, which are considered among the most high-quality coffee beans in the world. Besides that, our company will also produce other types of coffee beans to suit the needs of any coffee making company. Not just that, other quality assured methods for the production of the coffee beans will also be implemented to ensure that the coffee making companies are getting their money's worth.

Besides that, the Bean Bros Company will also provide different tiers of optional paid membership for customers. The different tiers for our membership will be Platinum as the highest tier, Gold for the medium tier while silver being the lowest tier in the membership subscription plan. The three different tiers will provide different levels of benefits such as discounts. Through the membership subscription, members will get to save more will paying less for the goods.

On top of that, the Bean Bros Company will also transport the goods directly to the customer. The reason that by delivering our goods to the customer and conducting face-to-face payment, we could help to develop good faith between the customer and our company through

examples such as allowing the customer to conduct a quick quality check on the beans. This helps to ensure that our company does not cut corners when it comes to the quality of the beans.

4.4 Project Objectives

To create a blueprint for establishing and maintaining a company

As a start-up company, specific and detailed blueprint is needed as a guide to fully set up the company without any major issues. For example, risks and budget are accessed before establishing the company to ensure the company can survive the entry to a competitive market. After establishing the company, it will need to maintain its position in the current market and be able to compete with rivalry companies.

To introduce an extra choice for retailer or café owner

Coffee beans in the market have very limited in terms of choices. We aim to let our customers to have an extra choice when they purchase coffee beans for their café or shop. It is also a way to gain trust from new customers whenever our loyal customers provide feedbacks of our coffee brand.

To modernize agriculture industry

In the agricultural industry, there are a lot of problems when it goes online. For instance, promoting agricultural industry online is hard because it is very competitive against other industries like gaming industry, electronics industry etc. Therefore, a new idea will need to be implemented in order to attract more customers via online platforms.

ADDITIONAL OBJECTIVES

To implement all knowledge from previous modules to a project

From our previous modules like Introduction to Software Engineering, System Analysis and Design, Web Development, we gain a lot of different knowledge. With this project, it will help us to choose and apply the correct knowledge in order to complete this module with high grades.

To improve the technical skills and soft skills of all member

Besides applying the knowledge, we learnt previously, we will need to design and write our own website where our HTML, CSS, JavaScript, PHP, and SQL are needed to make a dynamic and responsive website. Furthermore, soft skills like leadership and communication

are also a must in order to ensure all group members can cooperate and coordinate together to complete this project.

To mimic an environment of real-life company project

This project is to recreate a real-life project when we get involved in a project in the company. Unlike previous semester module where all group members get together to discuss on a same topic, this module divide tasks and assign roles for each member so that each member will have more focus on their own task. Eventually, more tasks can be completed.

4.5 Project Scope

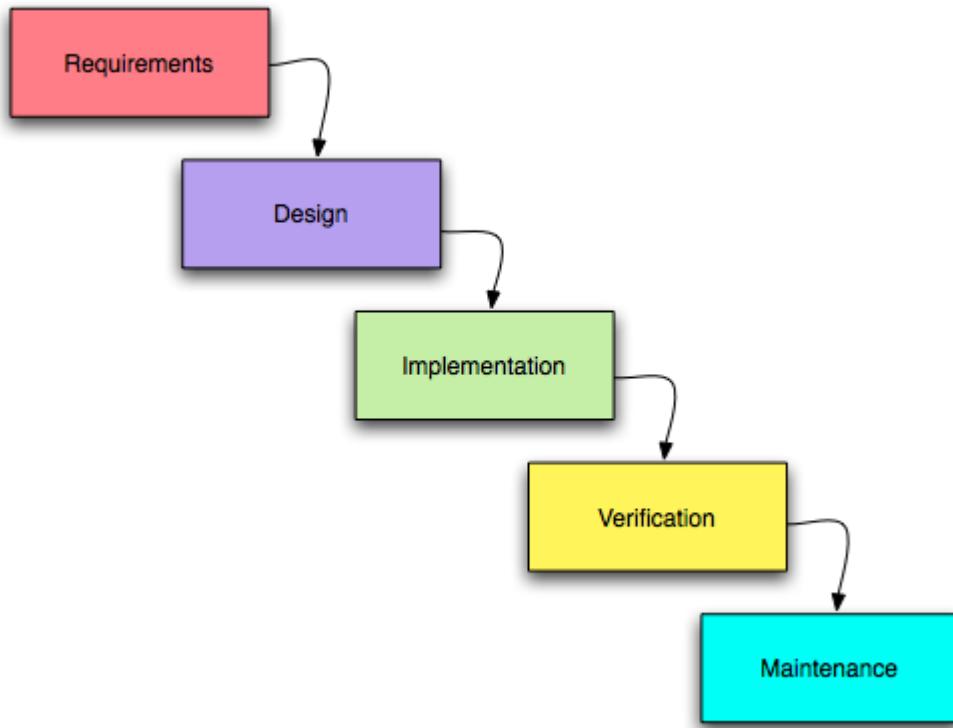
The Bean Bros Company is a start-up company which have only four staffs: Yip Zi Xian as project manager, Kishanraj a/l K.Alagayah as system analyst, Marcus Ong Jin Rong and Ong Lit Tsen as programmers. Our company is a producer of coffee beans where we farm and harvest our own coffee beans. Besides that, we are a wholesaler for imported coffee beans. Bean Bros company have an online website which customers can sign up and log in to access more features. As a wholesaler, Bean Bros website do not have online ordering because we are selling and delivering coffee beans in large qualities for one order, thus there is a lot of money involved. Therefore, any customers who need a purchase will have to contact us through our company email stated in our website.

Bean Bros company will have a membership monthly subscription which can be purchased on website. The membership monthly subscription will charge subscribed customers through their bank account each month when they confirmed their purchase. The subscription will have different tiers and will be reasonable as there are many benefits and promotions which is a return of appreciation for supporting from Bean Bros Company.

5. Project Plan

5.1 System Development Methodology

The methodology of choice for us is the waterfall methodology :-



Sample of the waterfall methodology

This methodology model is a sequential based model. With this, we can split the development of the software into a part by part basis so that we can focus on one issue at a time. The waterfall model is split into five main categories, Requirement gathering and analysis, System design, Implementation, System testing and system maintenance.

Requirement Gathering and Analysis

The purpose of requirement gathering and analysis is to find out the necessities that we are required to implement into the planning of the software. We can gather key information that might help us gather the customers that are interested in our software as well as knowing which boundaries need to be set in place to ensure that we follow coding accordingly. Some information that could be useful for us to gather is the purpose of the software, the scope of the softwares availability, the functions we plan on implementing onto the software, software attributes, functionality specifications, etc.

Moreover, we will be designing system hierarchy chart, context diagrams, data flow diagram level 0 and level 1 to aid our system design. These diagrams will let us understand what data or information will be input and what and how the output looks like. To add on, data dictionary based on data diagram level 1 will also be included to further explain the input and output. Flowcharts will act as a complex and neatly-elaborated guidelines for our system while entity relationship diagram will help us to structure our PHP codes easily as we know how the data will be linked throughout multiple tables within our localhost database.

With information like this at our disposal, we will be able to get a rough idea on how to build the software and the dos and don'ts of creating the specifications of said website.

System Design

The purpose of this is to begin the problem solving part of our software. We begin planning the various issues that we may face in the building process. This will give us a rough estimate on the type of language that we might need to use due to the different browser compatibility, the simplicity of the language used into coding the software, the availability of the language to a startup company like us, etc. Taking all of this into consideration, we will be able to design the system according to what needs to be done by using normal web development languages like HTML, Cascading Style Sheet (CSS), JavaScript, PHP, and MySQL to make our company function without issues.

Implementation

The purpose of this is to follow through with the planning done before and begin making the software. We need to take into consideration the business requirements and design specifications needed to construct a reliable software or, in our case, a fully functioning website. This phase of the model is where the codes are written and are also compiled to begin constructing the software. Most of the code is written with minimal testing as the backbone and the foundation of the website is coded to specifications first and then the rest of the precise details will be added on later. Most of the work will begin in this phase and also one of the most time consuming parts of the entire process of the building.

System Testing

The purpose of this is to verify and validate if the program works as intended and if it's ready to be published for consumers' use. During this phase, heavy testing is implemented over an extended period of time to try and find every single issue that can be found and that can be

solved to prevent bugs or potentially fatal errors that could make the website go down. This process can take anywhere between several weeks to several months on a larger scale software. If any major errors were to make it out of the testing phase, we could lose many customers and a lot of income as it could take days or even weeks to fix the error. So this is a very important part of the process that needs to be done. As we have chosen unit testing and user acceptance testing for our system, detailed explanation and analysis will be provided in Chapter 16.

Maintenance Phase

The purpose of this is to modify and fix any minor issues that users of the software or website are facing. This is also where changes are made to the website or software that are necessary to attract more customers. For example, a new type of product that has peaked the interest of the customers, a modification of our prices due to a promotion or a discount sale that we decided to have, a new variation of product that we have in stock that we need to add, etc. This phase is by far the easiest and most quickly executable out of all the phases as it mostly regards information gathered from customers and just implementing it to the website or software.

Advantages and Disadvantages

The waterfall model comes with its fair share of advantages and disadvantages. Some advantages are that the waterfall model is simple and easy to understand so it is perfect for a startup company like us. The phases of the model are very straightforward and precisely to the point. One phase is done at any one given time so that means all attention can be given to that one phase. This is good for a startup company like ours as due to our small size, performing multiple tasks individually is a tall order so doing it as a group is better.

The disadvantages of the waterfall model is that it is really hard to make changes once the previous phases have been completed. Due to all the attention being in one phase at a time, in the event that one piece of information was left out during planning or if a single code string has been left out, it could be catastrophic for us. Another disadvantage is that there is no prototyping and the end product is the final product of the software. There will be no demo website or demo software.

We at Bean Bros Company have chosen this model because we believe that for a small startup company like us, this model fits absolutely perfectly. The simplicity of the model makes it easy to follow and it makes doing each phase together as a group instead of individually spreads the task among us equally lowering the work burden overall.

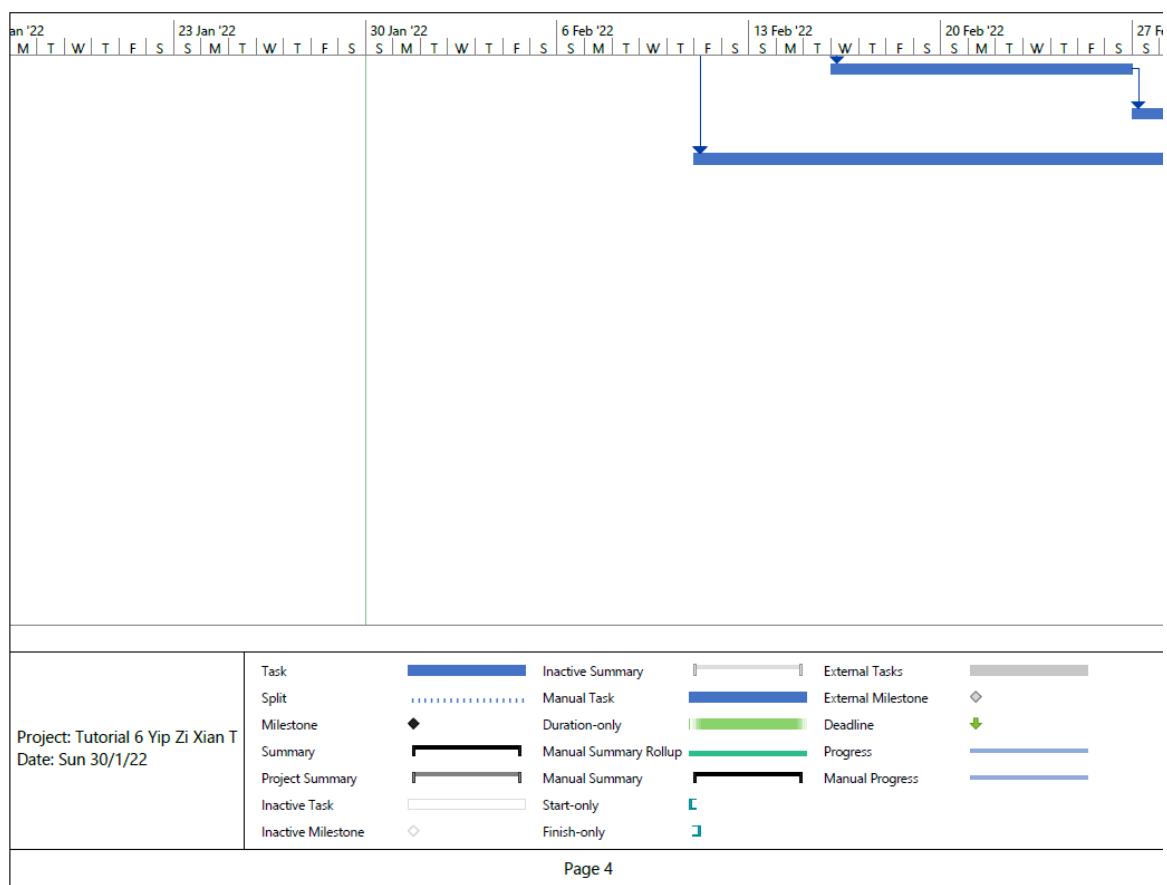
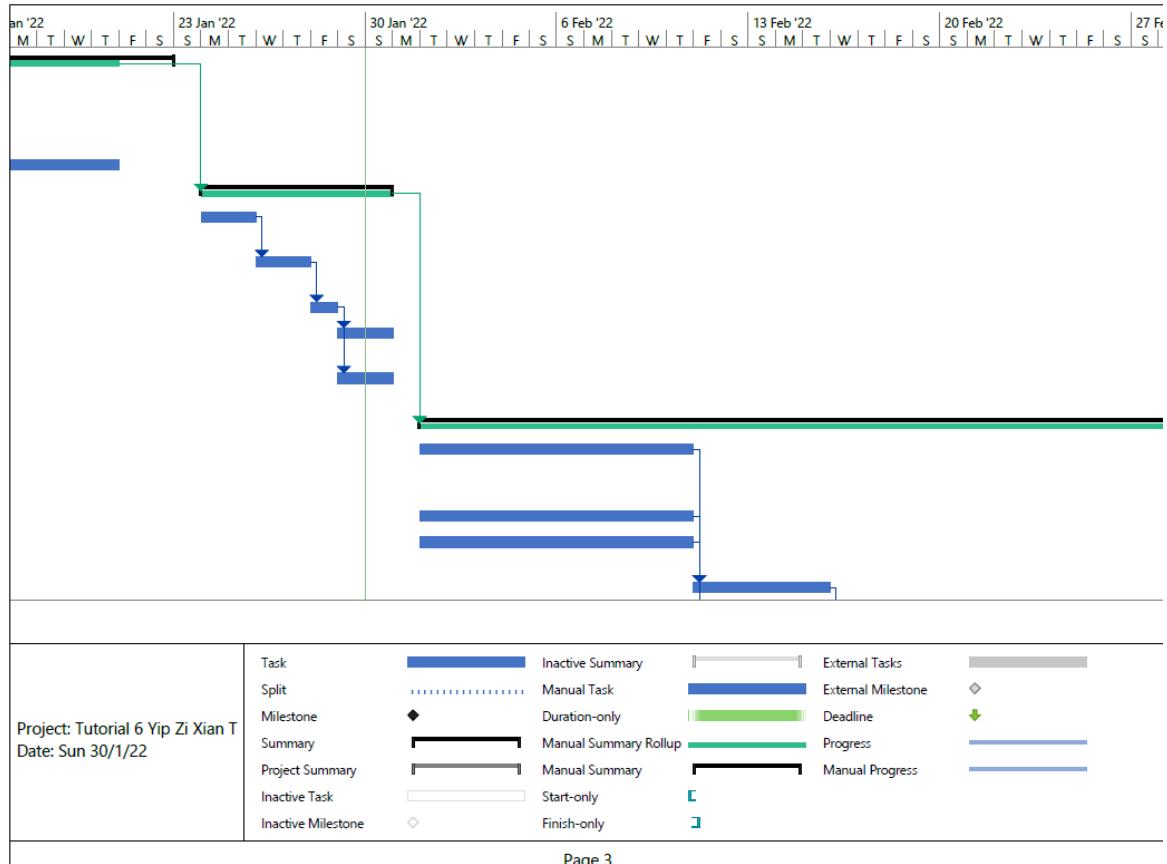
5.2 Project Gantt Chart

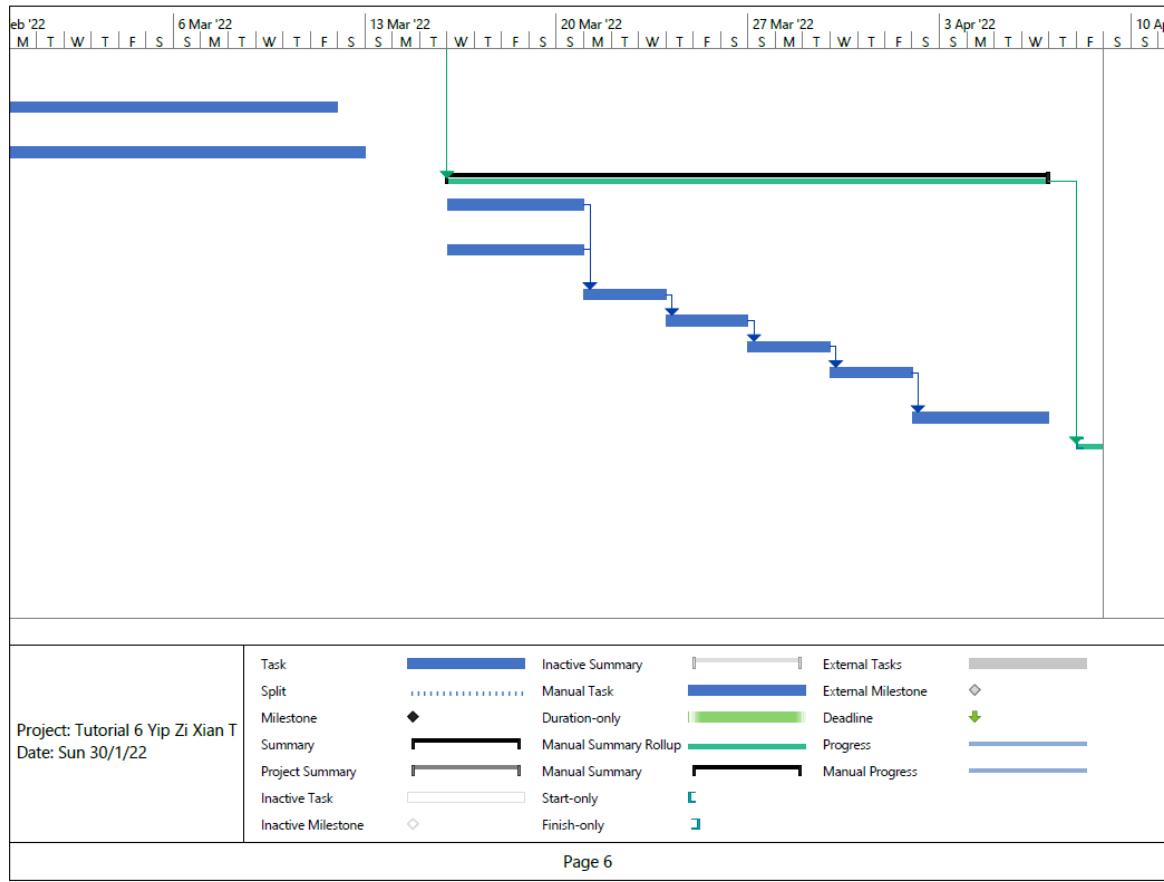
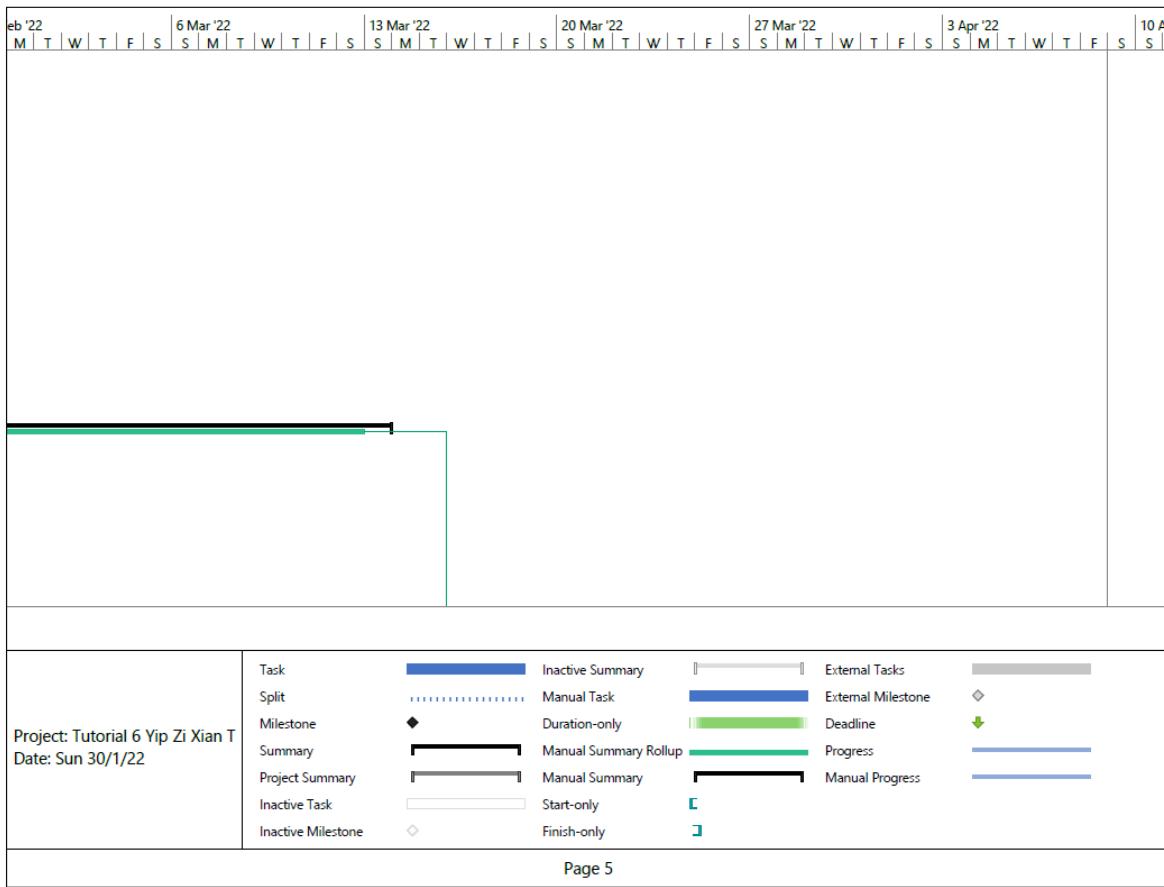
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	9 Jan '22	S M T W T F S 16 Jan
1	?	System Planning	13 days	Mon 10/1/22	Sun 23/1/22				
2	?	Discuss system industry	3 days	Mon 10/1/22	Fri 13/1/22				
3	?	Assign roles	1 day	Thu 13/1/22	Fri 14/1/22	2			
4	?	Delegate tasks	1 day	Thu 13/1/22	Fri 14/1/22	2			
5	?	Prepare proposal	7 days	Fri 14/1/22	Fri 21/1/22	3,4			
6	?	System Analysis	7 days	Mon 24/1/22	Mon 31/1/22				
7	?	Analyse system development methodology	2 days	Mon 24/1/22	Wed 26/1/22				
8	?	Outline system navigational structure	2 days	Wed 26/1/22	Fri 28/1/22	7			
9	?	Identify project background	1 day	Fri 28/1/22	Sat 29/1/22	8			
10	?	Determine current problems and brainstorm solutions	2 days	Sat 29/1/22	Mon 31/1/22	9			
11	?	Determine system objectives and scope	2 days	Sat 29/1/22	Mon 31/1/22	9			
12	?	System Design	41 days	Tue 1/2/22	Mon 14/3/22				
13	?	Discuss system data flow diagrams for Level 0 and Level 1	10 days	Tue 1/2/22	Fri 11/2/22				
14	?	Define data dictionary	10 days	Tue 1/2/22	Fri 11/2/22				
15	?	Create Entity Relationship Diagram	10 days	Tue 1/2/22	Fri 11/2/22				
16	?	Design UI using Figma	5 days	Fri 11/2/22	Wed 16/2/22	13,14,15			

Project: Tutorial 6 Yip Zi Xian T Date: Sun 30/1/22		Task	Inactive Summary	External Tasks
		Split	Manual Task	External Milestone
		Milestone	Duration-only	Deadline
		Summary	Manual Summary Rollup	Progress
		Project Summary	Manual Summary	Manual Progress
		Inactive Task	Start-only	Progress
		Inactive Milestone	Finish-only	Progress

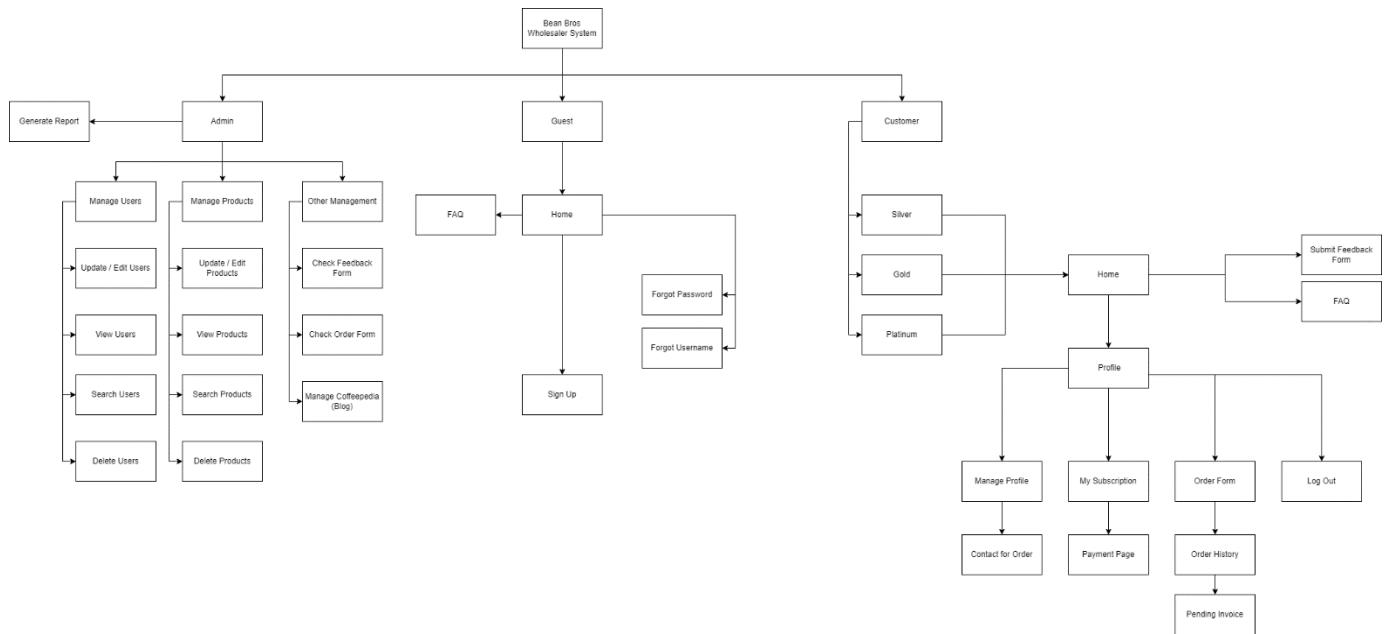
Page 1

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	9 Jan '22	S M T W T F S 16 Jan
17	?	Create actual website using HTML, CSS, and JavaScript	11 days	Wed 16/2/22	Sun 27/2/22	16			
18	?	Connecting website to database using PHP and SQL	13 days	Sun 27/2/22	Sat 12/3/22	17			
19	?	Discuss system flowchart	30 days	Fri 11/2/22	Sun 13/3/22	13,14,15			
20	?	System Implementation	22 days	Wed 16/3/22	Thu 7/4/22	12			
21	?	Write user manual with screen design and report	5 days	Wed 16/3/22	Mon 21/3/22				
22	?	Include source code to documentation	5 days	Wed 16/3/22	Mon 21/3/22				
23	?	Run alpha testing	3 days	Mon 21/3/22	Thu 24/3/22	21,22			
24	?	Debug errors	3 days	Thu 24/3/22	Sun 27/3/22	23			
25	?	Run beta and final testing	3 days	Sun 27/3/22	Wed 30/3/22	24			
26	?	Debug errors and finalise system	3 days	Wed 30/3/22	Sat 2/4/22	25			
27	?	System Checkup	5 days	Sat 2/4/22	Thu 7/4/22	26			
28	?	System Security, Support & Maintenance	-	Fri 8/4/22	NULL	20			
29	?	Present and introduce system	-	-	-				
30	?	Observe system performance	-	-	-				
31	?	Update system design and database	-	-	-				
32	?	Improve system usability and simplicity	-	-	-				

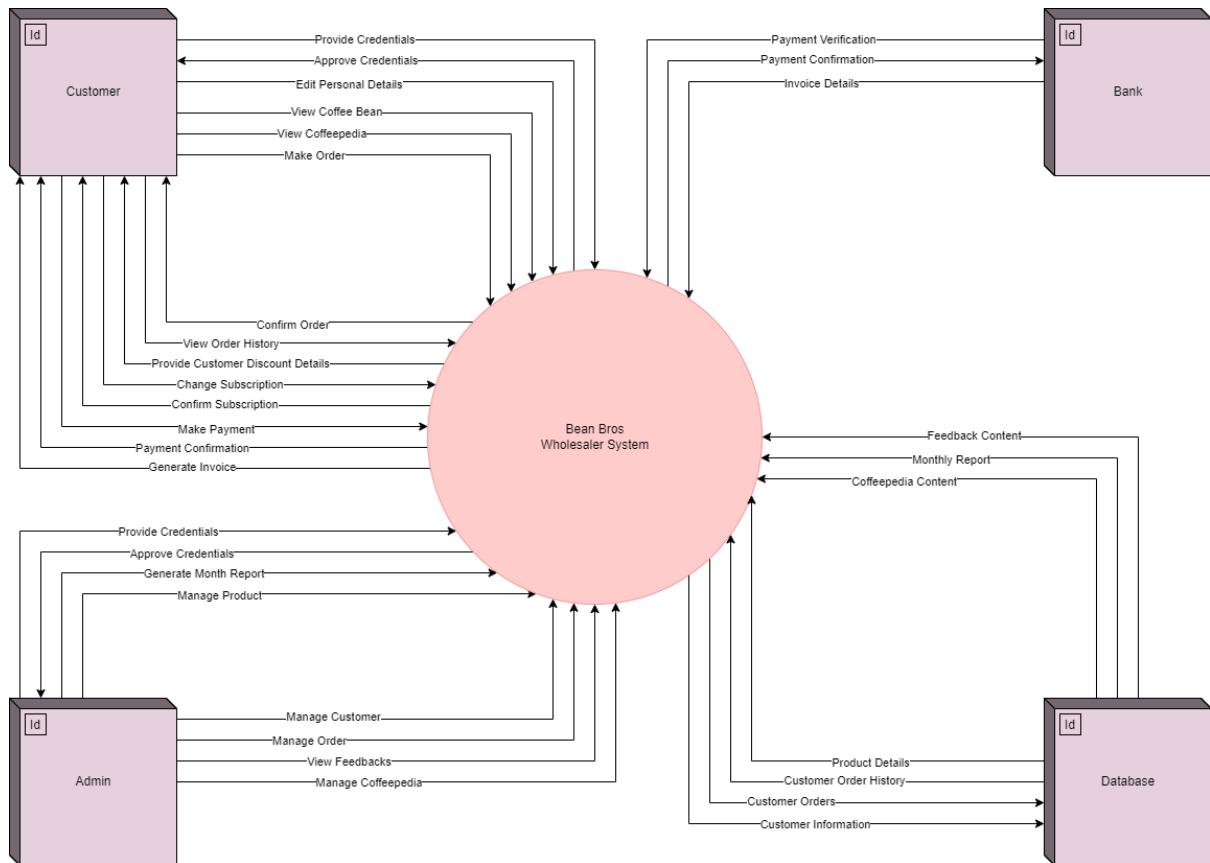




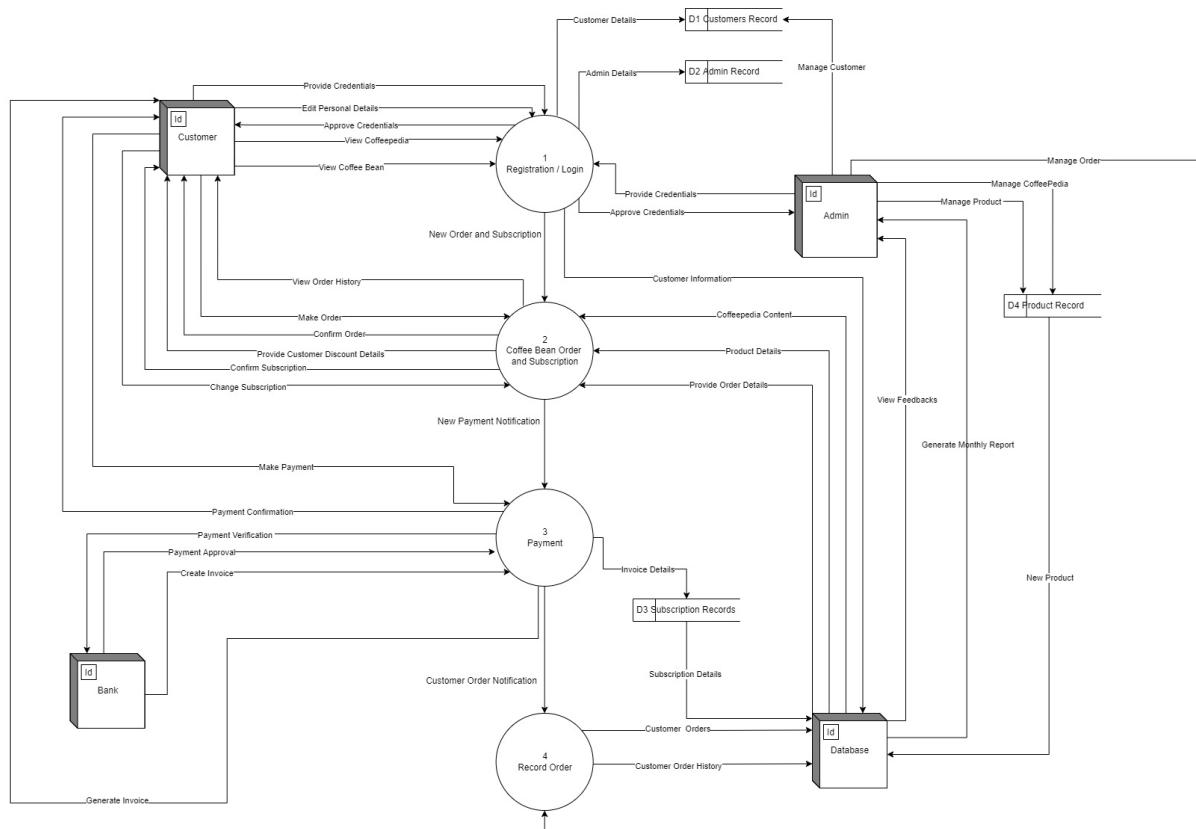
6. System Hierarchy Chart



7. Context Diagram

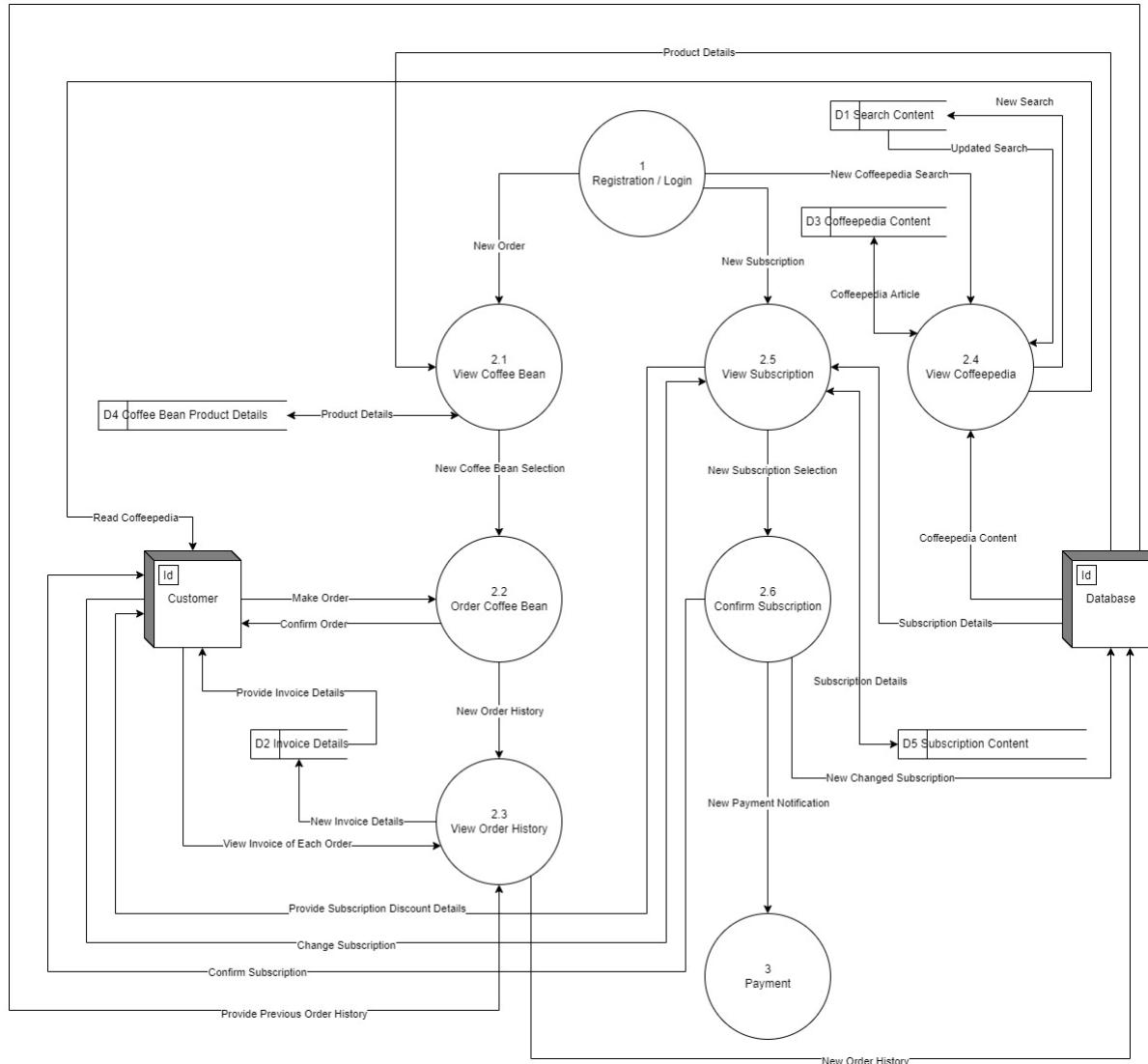


8. Data Flow Diagram Level 0

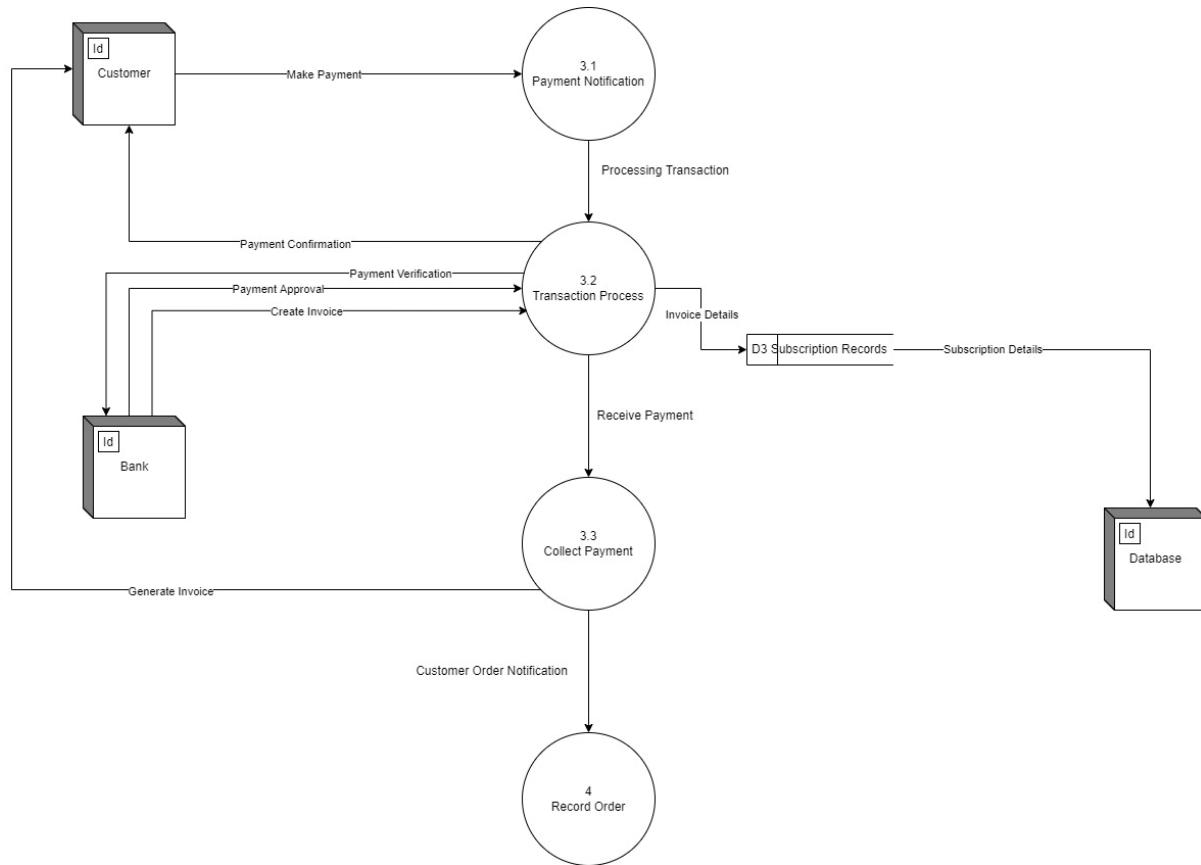


9. Data Flow Diagram Level 1

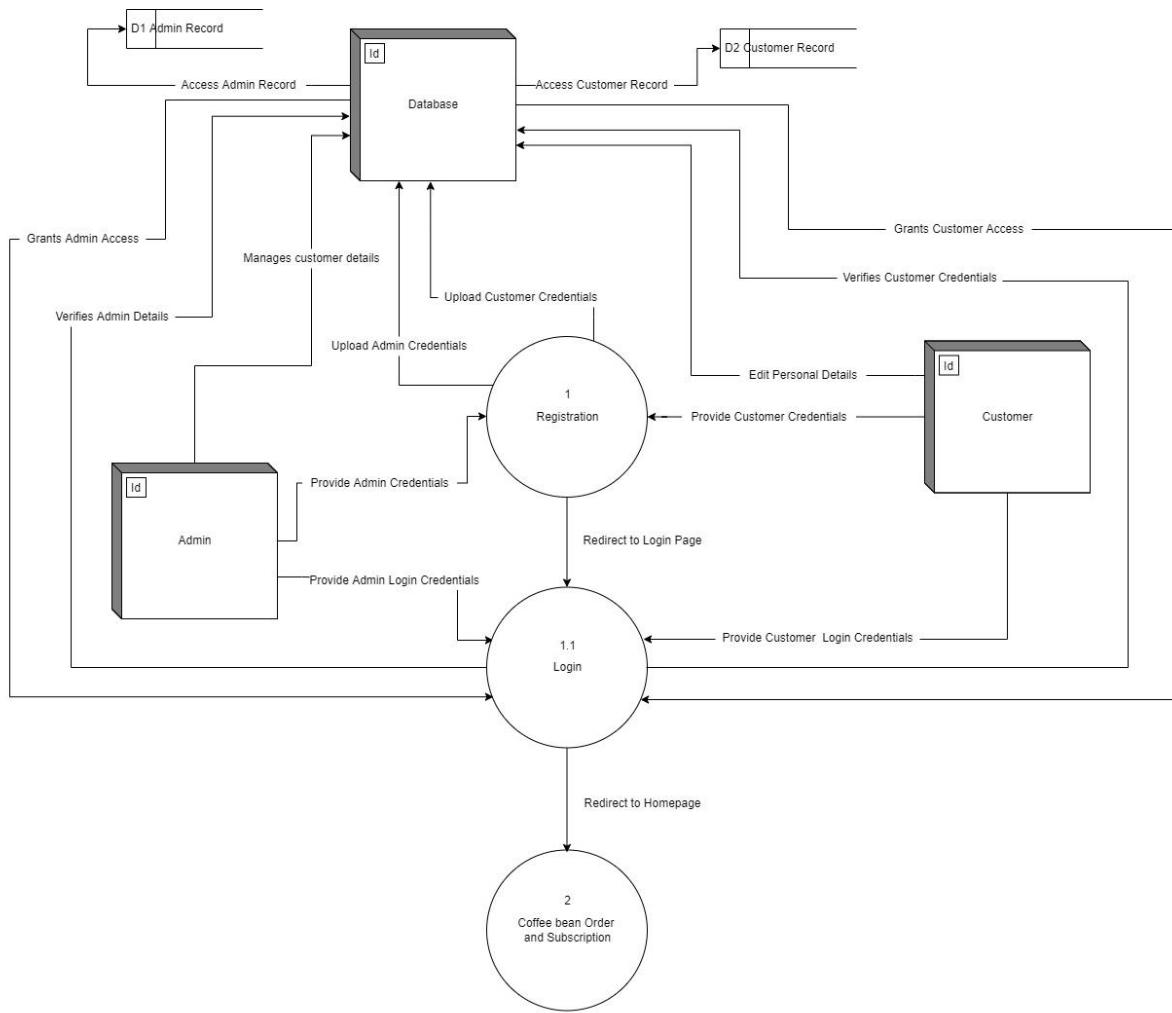
9.1 Yip Zi Xian (TP059963) – Coffee Bean Order & View Coffeepedia & Subscription



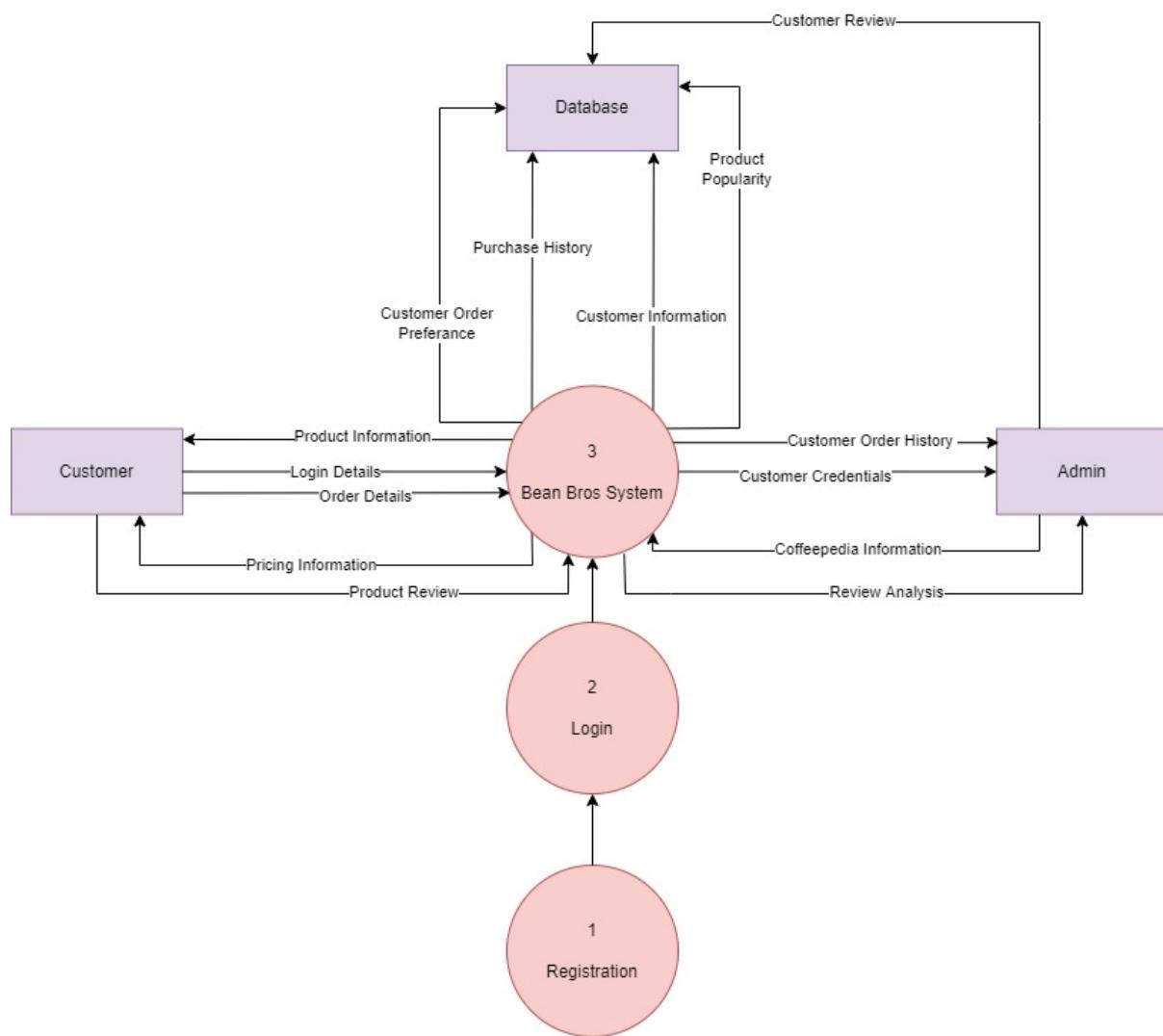
9.2 Ong Lit Tsen (TP060665) – Subscription Payment



9.3 Marcus Ong Jin Rong (TP060821) – Login & Registration



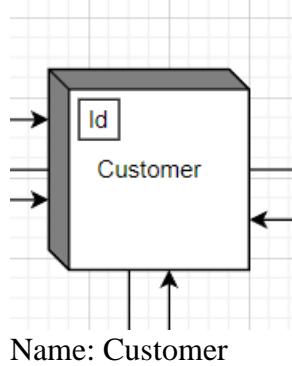
9.4 Kishanraj a/l K.Alagayah (TP061345) – Record Order



10. Data Dictionary

10.1 Yip Zi Xian (TP059963)

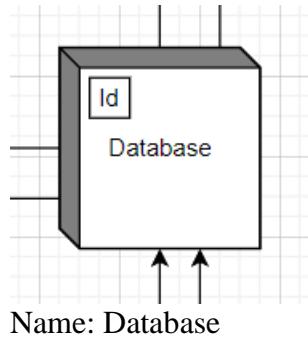
External Entity



Description: Customer can perform function like view coffee bean menu, order history, invoice of each order, purchase subscription, view coffeepedia articles on Bean Bros Wholesaler Website.

Input data flows: Read Coffeepedia, Confirm Subscription, Confirm Order, Provide Subscription Discount Details, Provide Invoice Details

Output data flows: Change Subscription, Make Order, View Invoice of Each Order

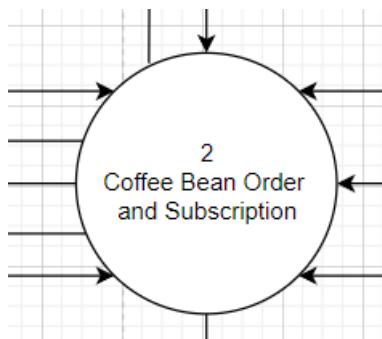


Description: Database stores current and new data and provides all the information about Bean Bros Company and display relevant information to customer and filter out the coffee bean menu or coffeepedia articles.

Input data flows: New Changed Subscription, New Order History

Output data flows: Provide Previous Order History, Product Details, Coffeepedia Content, Subscription Details

Process



Name: 2.0 Coffee Bean Order and Subscription

Description: Customer can have access to various functions in Bean Bros Wholesaler website like browse through coffee bean menu, making an order, subscribing to Bean Bros Company, reading coffeepedia articles.

Input data flows: New Order and Subscription, Make Order, Change Subscription, Coffeepedia Content, Product Details, Provide Order Details

Output data flows: New Payment Notification, Confirm Order, Provide Customer Discount Details, Confirm Subscription, Change Subscription

Process Description:

START

FUNCTION view product details

 DISPLAY product

ENDFUNCTION

FUNCTION view coffeepedia details

 READ coffeepedia ID

 DISPLAY coffeepedia article

ENDFUNCTION

FUNCTION make order

 READ selected coffee bean

 READ amount of coffee bean

 DISPLAY confirm order

ENDFUNCTION

FUNCTION view order history

 DISPLAY order history

 READ invoice ID

 DISPLAY invoice details

ENDFUNCTION

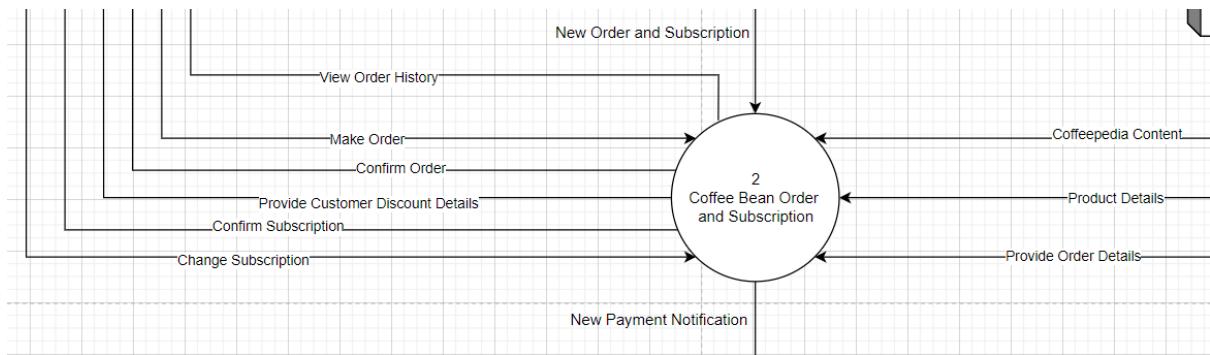
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FUNCTION view subscription
    DISPLAY subscription details
    READ selected subscription
    READ credit card number, expired data, CVV
    DISPLAY confirm subscription
ENDFUNCTION

END

```

Data Flow



Name: New Order and Subscription

Description: Customers request for a new order or subscription or to change their subscription.

Source: 1.0 Registration / Login

Destination: 2.0 Coffee Bean Order and Subscription

Data Structure: Customer ID, Bean ID, Coffee Bean, Amount, Price_Per_kg, Total, Order_Date, Subscription

Name: View Order History

Description: Customers can look back at their order history where they can generate a detailed invoice.

Source: 2.0 Coffee Bean Order and Subscription

Destination: Customer

Data Structure: Customer ID, Order ID

Name: Make Order

Description: Customer can place a pending order through their profile page with a selected coffee bean and minimum amount of 60kg.

Source: Customer

Destination: 2.0 Coffee Bean Order and Subscription

Data Structure: Customer ID, Order ID, Coffee_Bean, Amount, Price_Per_kg, Total, Subscription

Name: Confirm Order

Description: Customers will need to confirm whether they wanted to place the order or not.

Source: 2.0 Coffee Bean Order and Subscription

Destination: Customer

Data Structure: -

Name: Provide Customer Discount Details

Description: Customers can view the benefits of having a subscription with Bean Bros Company.

Source: 2.0 Coffee Bean Order and Subscription

Destination: Customer

Data Structure: Subscription

Name: Confirm Subscription

Description: Customers will need to confirm whether want to purchase the selected subscription.

Source: 2.0 Coffee Bean Order and Subscription

Destination: Customer

Data Structure: Customer ID, Subscription

Name: Change Subscription

Description: Customer with subscription can change their subscription to a different tier which will have different benefits from their current subscription.

Source: Customer

Destination: 2.0 Coffee Bean Order and Subscription

Data Structure: Customer ID, Subscription

Name: Coffeepedia Content

Description: Customers can read special or interesting articles related to coffee bean or coffee or coffee bean agriculture.

Source: Database

Destination: 2.0 Coffee Bean Order and Subscription

Data Structure: Coffeepedia ID, Admin ID, Author, Date, Content

Name: Product Details

Description: Customers can view all available coffee bean from Bean Bros Company and provided with a search bar to ease their finding process.

Source: Database

Destination: 2.0 Coffee Bean Order and Subscription

Data Structure: Bean ID, Coffee_Bean, Price_Per_kg, Description, Country, Roast

Name: Provide Order Details

Description: Customer will receive their previous order details and generate an invoice corresponding to the order.

Source: Database

Destination: 2.0 Coffee Bean Order and Subscription

Data Structure: Customer ID, Order ID, Order_Date, Coffee_Bean, Amount, Price_Per_kg, Total, Username, Email, Status

Name: New Payment Notification

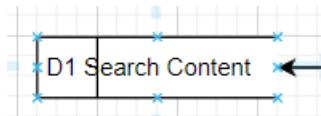
Description: Customers who purchase their subscription will need to type their credit card, expiring date, and CVV to change their subscription. Note that coffee bean order will not have a payment form as it is only a pending order. Order payment will be made via face-to-face.

Source: 2.0 Coffee Bean Order and Subscription

Destination: 3.0 Payment

Data Structure: Customer ID, Subscription

Data Store



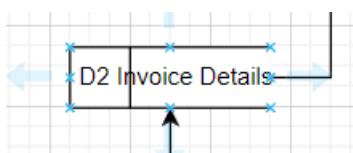
Name: Search Content

Description: To store the search value typed by customers

Input data flows: New Search

Output data flows: Updated Search

Data Structure: Content



Name: Invoice Details

Description: To store the new and previous invoice details in order to display to customers

Input data flows: New Invoice Details

Output data flows: Provide Invoice Details

Data Structure: Customer ID, Order ID, Order_Date, Coffee_Bean, Amount, Price_Per_kg,

Total, Status, Username, Email



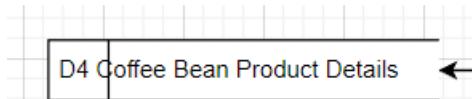
Name: Coffeepedia Content

Description: Store and display the coffeepedia articles to customers to read

Input data flows: Coffeepedia Article

Output data flows: Coffeepedia Article

Data Structure: Coffeepedia ID, Admin ID, Description, Author, Date, Content



Name: Coffee Bean Product Details

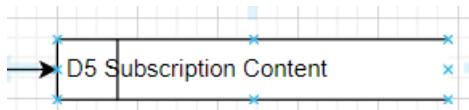
Description: Stores and display all available coffee bean to customers

Input data flows: Product Details

Output data flows: Product Details

Data Structure: Bean_ID, Coffee_Bean, Country, Roast, Description, Price_Per_kg,

Coffee_Bean_Image



Name: Subscription Content

Description: To display all subscription tiers and its benefits to customers

Input data flows: Subscription Details

Output data flows: Subscription Details

Data Structure: Subscription

Data Structure

Customer = CustomerID + Username + Email + Password + (Subscription)

Customer_Order = CustomerID + OrderID + CoffeeBean + Amount + Price_Per_kg + Total + (Subscription_When_Order)

Coffee_Bean = BeanID + CoffeeBean + Description + Country + Roast + Price_Per_kg

Coffeepedia = CoffeepediaID + AdminID + Author + Date + Content

Invoice = CustomerID + OrderID + OrderDate + Status + CoffeeBean + Amount + Price_Per_kg + Total + (Subscription_When_Order) + Username + Email

Order_History = CustomerID + OrderID + CoffeeBean

Subscription = CustomerID + Subscription

Data Element

Data Element Name: CustomerID

Description: Unique element to identify each distinct customer

Element Characteristics:

- Type: int
- Length: 255
- Output format: xx

Data Element Name: Username

Description: Name that customers wish to be called as

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: Abel

Data Element Name: Email

Description: Customers' email address that will be used to notify about monthly subscription and other privacy matters.

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: beanbros2022@gmail.com

Data Element Name: Password

Description: The combination that customers required to get access to their profile.

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: xxxxxxxx

Data Element Name: Subscription

Description: The tier in Bean Bros which will determine the amount of discount received by the customer in an order.

Element Characteristics:

- Type: varchar
- Length: 255
- Output format: Silver/Gold/Platinum/NULL

Data Element Name: Bean ID

Description: Unique element to identify each distinct coffee bean available in database

Element Characteristics:

- Type: int
- Length: 255
- Output format: x

Data Element Name: Coffee Bean

Description: The name or brand of the coffee bean displayed on Bean Bros Wholesaler website

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: Hawaiian Kona Coffee

Data Element Name: Coffee Bean Image

Description: The image file that will be displayed to customer in order to let customer have a visual about the coffee bean they are going to order.

Element Characteristics:

- Type: longblob
- Length: in kilobytes / megabytes
- Output format: [BLOB – 0.3MB]

Data Element Name: Price per kg

Description: The price per kilogram of the coffee bean

Element Characteristics:

- Type: int
- Length: 255
- Output format: 50

Data Element Name: Country

Description: The country where the coffee bean is being produced and processed

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: Kenya

Data Element Name: Roast

Description: The type of roast on the coffee bean which determines the intensity of the coffee bean.

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: Dark roast

Data Element Name: Description

Description: A brief introduction for the coffee bean to the customer

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: xxxxxxxx xxxx xxxx x x xxxx

Data Element Name: Order ID

Description: Unique element which identify each distinct order made by customer

Element Characteristics:

- Type: int
- Length: 255
- Output format: xx

Data Element Name: Total

Description: The total price included with discount the customer has to pay during face-to-face payment

Element Characteristics:

- Type: int
- Length: 255
- Output format: xxxx

Data Element Name: Amount

Description: The amount of coffee bean the customer has ordered in kilograms. Minimum 60kg.

Element Characteristics:

- Type: int
- Length: 255
- Output format: xx

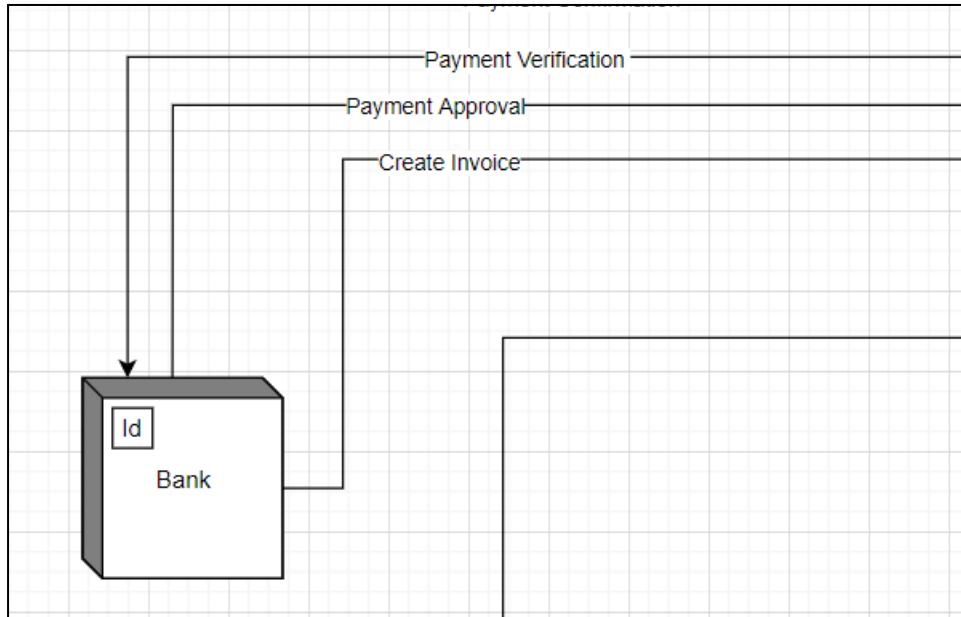
Data Element Name: Subscription When Order

Description: The subscription the customer has when he/she makes the order which will determine the amount of discount received

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: Silver/Gold/Platinum/NULL

10.2 Ong Lit Tsen (TP060665)



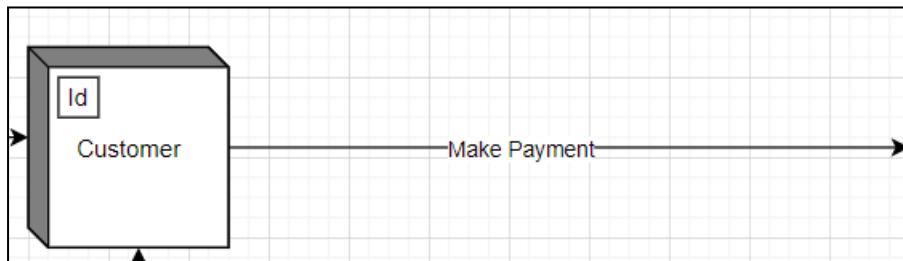
A. External Entity Description

Name: Bank

Description: Bank is responsible to verify the payment as a valid payment, only then the payment will be approved.

Input Data Flow: Payment Verification

Output Data Flow: Payment Approval, Create Invoice



B. Data Flow Description

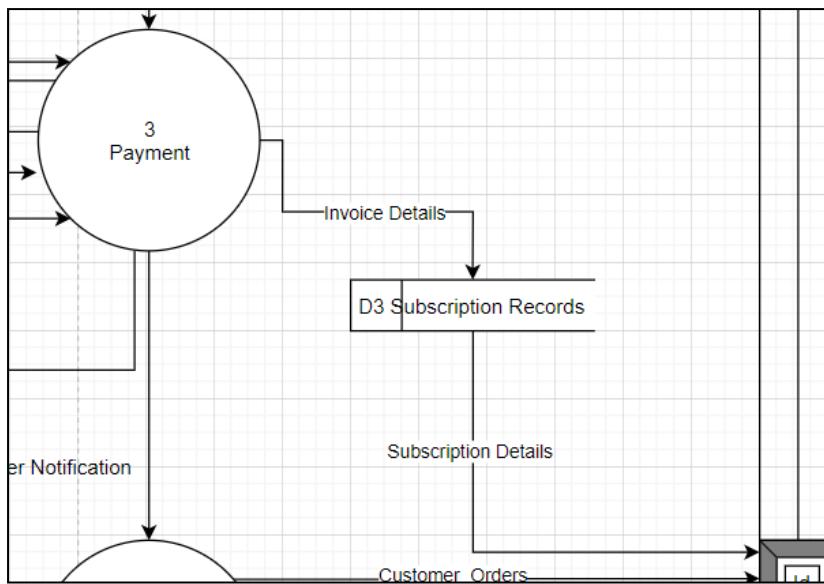
Name: Make Payment

Description: Customer pay to subscribe for membership

Origin / Source: Customer External Entity

Destination / Sink: Payment

Data Structure: Subscription



C. Data Store Description

Name: Subscription Records

Description: Store all subscription records for further purposes

Input Data Flow: Invoice Details

Data Structure: Subscription

D. Data Structure Description

Data Store Chosen: Subscription Records

Accounts Receivable: Customer Name + Customer Phone Number + Purchase Date + {Subscription type} + Total Price + (Credit Card/Debit Card Type) + (Credit Card/Debit Card Number)

Payment Method: [Credit Card | Debit Card | Online Transaction]

E. Data Element Description

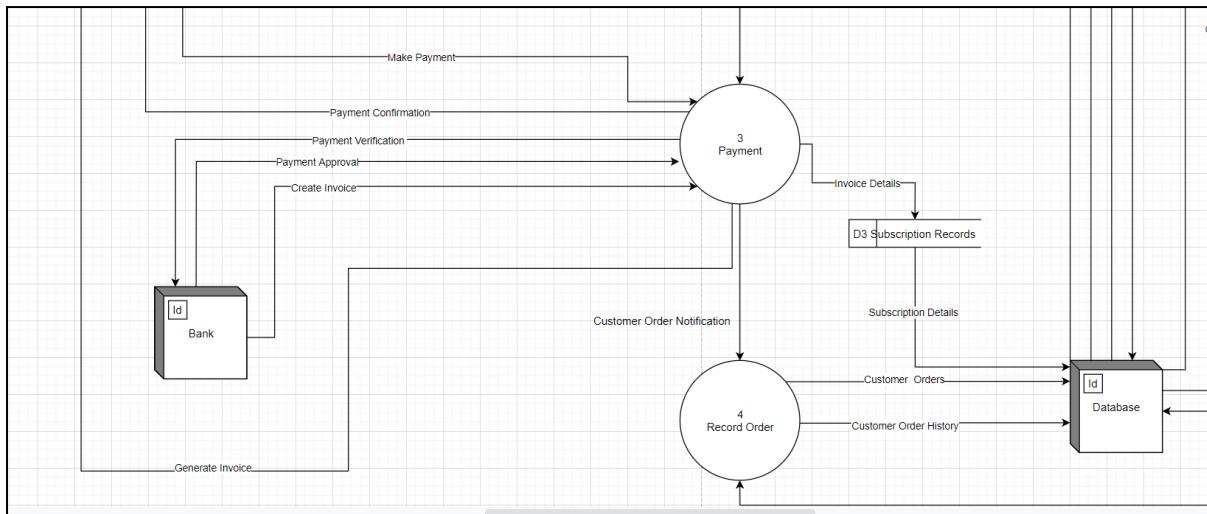
Data Flow Chosen: Make Payment

Data Element Name: Subscription

Description: Used to uniquely determine payment subscription made by customer and to avoid duplication payment.

Element Characteristic:

- **Type:** Alphabetic
- **Length:** 8
- **Output Format:** *****



F. Process Description

Name: 3 Payment

Description: After customer made the subscription payment, payment will be verified, and the payment will be approved. Then, invoice will be created, stored into the data store, the subscription details will be stored into the database. Lastly, payment confirmation will be informed, and invoice will be generated to the customer.

Input Data Flow: Payment Approval, Create Invoice, Subscription Details

Output Data Flow: Invoice Details, Payment Confirmation, Payment Verification, Generate Invoice

Process Description:

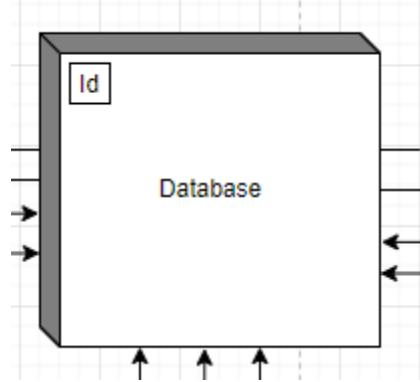
PROGRAM Payment:

If payment verification is successful, payment will be approved, invoice will be created, and details will be stored. Subscription details will be stored into database, payment confirmation will be informed, and invoice will also be generated to the customer, otherwise payment is rejected.

END

10.3 Marcus Ong Jin Rong (TP060821)

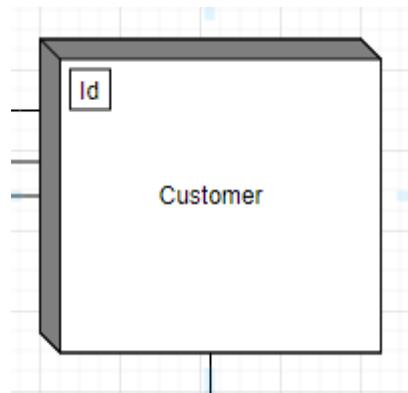
External Entity



Description: Database stores current and new data and provides all the information about Bean Bros Company and display relevant information to customer and filter out the coffee bean menu or coffeepedia articles.

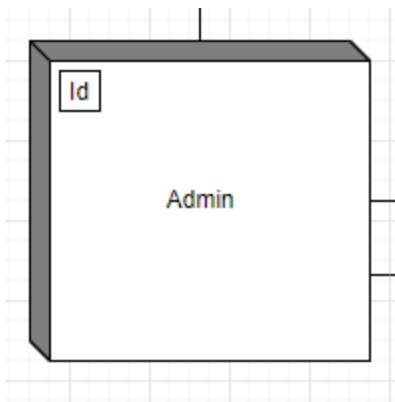
Input Data Flows: Verifies Admin Details, Manages Customer Details, Upload Admin Credentials, Upload Customer Credentials, View Coffeepedia, Edit Personal Details, Verifies Customer Credentials

Output Data Flows: Access Admin record, Access Custoemr record, Grants Admin Access, Grants Customer Access



Description: Customer can perform function like view coffee bean menu, order history, invoice of each order, purchase subscription, view coffeepedia articles on Bean Bros Wholesaler Website.

Output Data Flows: Edit Personal Details, Provide Customer Credentials, Provide Customer Login Credentials

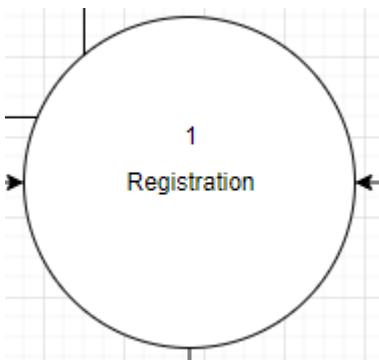


Name: Admin

Description: Admin can perform function like manage the Bean Bros database, edit coffee bean menu, manage customer details and edit coffeepedia articles on Bean Bros Wholesaler Website.

Output Data Flows: Manages Customer Details, Provide Admin Credentials, Provide Admin Login Credentials

Process



Name: 1 Registration

Description: Allows Customers to key in their credentials which will be saved to the database. The same function also applies to Admin.

Input Data Flows: Provide Admin Credentials, Provide Customer Credentials

Output Data Flows: Upload Customer Credentials, Upload Admin Credentials, Redirect to Login Page

Process Description:

START

FUNCTION: Admin register

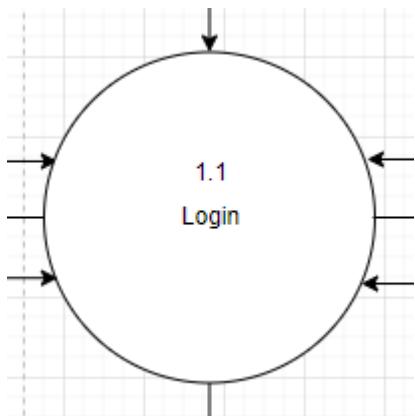
READ: Admin username

READ: Admin password

```
    DISPLAY: confirm registration  
ENDFUNCTION
```

```
FUNCTION: Customer register  
    READ: Customer username  
    READ: Customer password  
    DISPLAY: confirm registration  
ENDFUNCTION
```

```
END
```



Name: 1.1 Login

Description: Allows Customers to key in their credentials to access the database. The same function also applies to Admin.

Input Data Flows: Provide Admin Login Credentials, Provide Customer Login Credentials, Grants Admin Access, Grants Customer Access, Redirect to Login Page

Output Data Flows: Verifies Admin Credentials, Verifies Customer Credentials, Redirect to Homepage

Process Description:

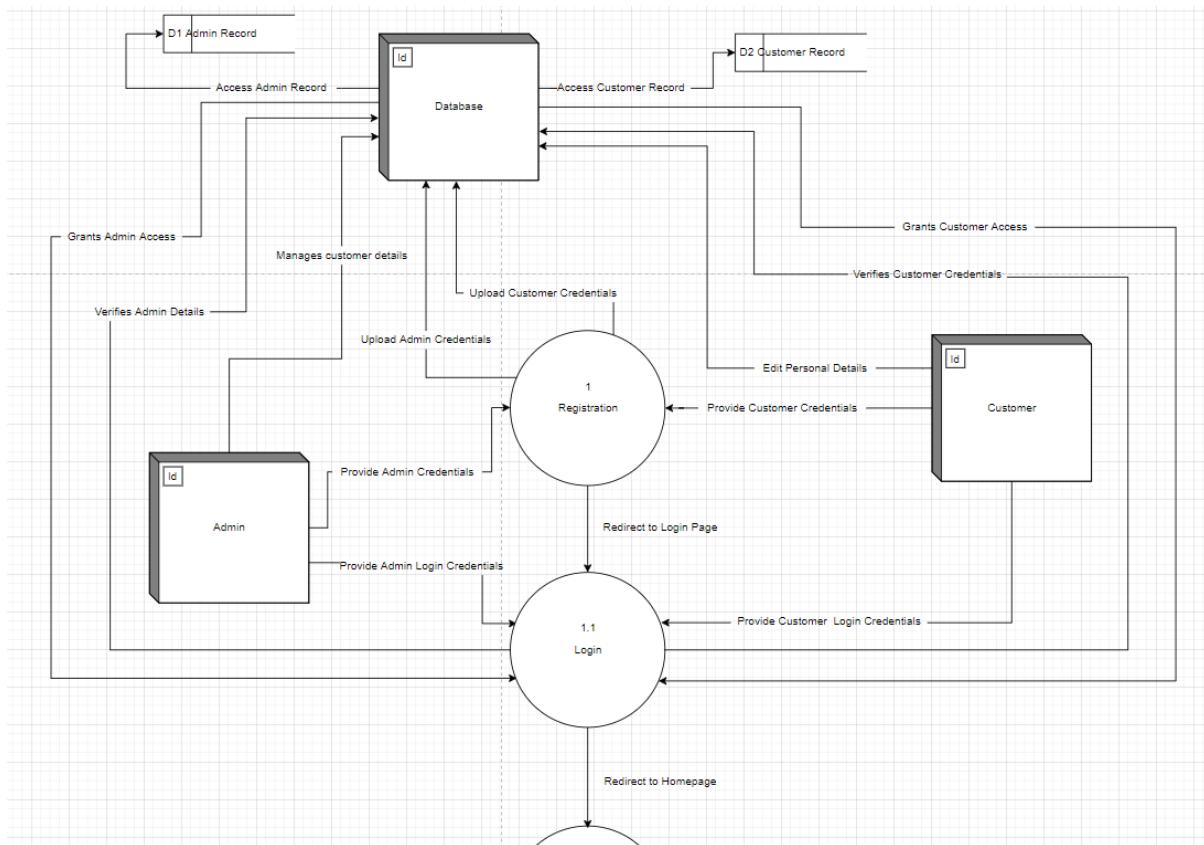
START

```
FUNCTION: Admin login  
    READ: Admin username  
    READ: Admin password  
    DISPLAY: confirm login  
ENDFUNCTION
```

```
FUNCTION: Customer login
```

READ: Customer username
 READ: Customer password
 DISPLAY: confirm login
 ENDFUNCTION
 END

Data Flow



Name: Access Admin Record

Description: Database accesses Admin Record

Destination: Admin Record

Source: Database

Data Structure: Admin ID, Admin Name, Email

Name: Access Customer Record

Description: Database accesses Customer Record

Destination: Customer Record

Source: Database

Data Structure: CustomerID, Username, Email

Name: Grants Admin Access

Description: Database grants access Admin to Admin side homepage

Destination: Login

Source: Database

Data Structure: Admin Name, Admin Password

Name: Grants Customer Access

Description: Database grants access Customer to Customer side homepage

Destination: Login

Source: Database

Data Structure: Username, Password

Name: Verifies Admin Details

Description: Database accesses Admin record to verify Admin Login Credentials

Destination: Database

Source: Admin

Data Structure: Admin Name, Admin Password

Name: Verifies Customer Details

Description: Database accesses Admin record to verify Customer Login Credentials

Destination: Database

Source: Customer

Data Structure: Username, Password

Name: Manages Customer Details

Description: Admin accesses Database to manage Customer Records

Destination: Database

Source: Admin

Data Structure: Admin ID Admin Name, CustomerID, Username, Password, Email, Subscription

Name: Upload Admin Credentials

Description: Admin Credentials Are uploaded to the Admin Record through the Database

Destination: Admin Record

Source: Admin

Data Structure: Admin ID, Admin Name, Admin Password

Name: Upload Customer Credentials

Description: Customer Credentials Are uploaded to the Customer Record through the Database

Destination: Customer Record

Source: Customer

Data Structure: CustomerID, Username, Password, Email

Name: Provide Admin Login Credentials

Description: Admin Login Credentials during login session are sent to database for verification

Destination: Database

Source: Admin

Data Structure: Admin Name, Admin Password

Name: Provide Admin Credentials

Description: Admin Credentials during Register session are sent to Admin Record through Database for Login use.

Destination: Database

Source: Admin

Data Structure: Admin ID, Admin Name, Admin Password

Name: Provide Customer Login Credentials

Description: Customer Login Credentials during login session are sent to database for verification

Destination: Database

Source: Customer

Data Structure: Username, Password

Name: Provide Customer Credentials

Description: Customer Credentials during Register session are sent to Customer Record through Database for Login use.

Destination: Database

Source: Customer

Data Structure: Username, Password, Email

Name: Edit Personal Details

Description: Customer Credentials are allowed to be edited by the Customer, the new data is then updated at the Customer Record through the Database.

Destination: Database

Source: Customer

Data Structure: CustoemrID, Username, Password, Email

Name: Redirect to Login Page

Description: Users will be redirected to the Login page after the Registration is complete

Destination: 1.1 Login

Source: 1 Registration

Data Structure: Admin ID, CustomerID

Name: Redirect to Homepage

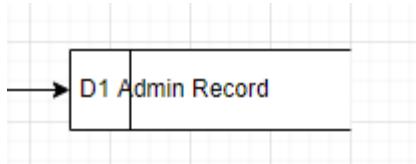
Description: Users will be redirected to the Homepage after the Login is complete and access has been granted.

Destination: 2 Coffee Bean Order and Subscription

Source: 1.1 Login

Data Structure: Admin ID, CustomerID

Data Store



Name: Admin Record

Description: Admin credentials and personal data for the registration will be saved in the Admin Record for reference.

Input Data Flows: Access Admin Record

Output Data Flows: Access Admin Record

Data Structure: Admin ID, Admin Name, Admin Password



Name: Customer Record

Description: Customer credentials and personal data for the registration will be saved in the Customer Record for reference.

Input Data Flows: Access Customer Record

Output Data Flows: Access Customer Record

Data Structure: CustomerID, Email, Username, Password, Subscription

Data Structure

Customer = CustomerID + Username + Email + Password + Subscription

Admin = Admin ID + Admin Name + Admin Password

Customer Credentials = Username + Password

Admin Credentials = Admin Name + Admin Password

Data Element

Data Element Name: CustomerID

Description: Unique element to identify each distinct customer

Element Characteristics:

- Type: int
- Length: 255
- Output format: xx

Data Element Name: Username

Description: Name that customers wish to be called as

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: Abel

Data Element Name: Email

Description: Customers' email address that will be used to notify about monthly subscription and other privacy matters.

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: beanbros2022@gmail.com

Data Element Name: Password

Description: The combination that customers required to get access to their profile.

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: xxxxxxxx

Data Element Name: Subscription

Description: The tier in Bean Bros which will determine the amount of discount received by the customer in an order.

Element Characteristics:

- Type: varchar
- Length: 255

Output format: Silver/Gold/Platinum/NULL

Data Element Name: Admin ID

Description: Unique element to identify each distinct admin

Element Characteristics:

- Type: int
- Length: 255
- Output format: xx

Data Element Name: Admin

Description: Name that the admin wish to be called as

Element Characteristics:

- Type: varchar
- Length: 432
- Output format: Adam

Data Element Name: Admin Password

Description: The combination that admin required to get access to their profile.

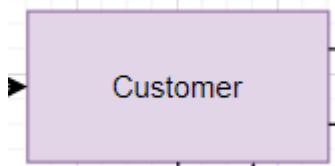
Element Characteristics:

- Type: varchar
- Length: 432

Output format: xxxxxxxx

10.4 Kishanraj a/l K.Alagayah (TP061345)

External Entity

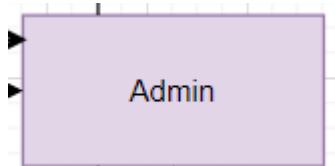


Name: Customer

Description: Can perform actions like view the menu, order history, invoice of each order, purchase subscriptions, see the coffeeepedia articles on bean bros website, etc.

Input data flows: Pricing Information, Product Information

Output data flows: Product Review, Order Details, Login Details

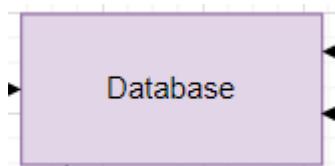


Name: Admin

Description: Can view the purchase history of customers, can edit and modify the menu and add or remove products, can see item popularity and purchase amount, etc.

Input data flows: Customer order history, Customer credentials, Review analysis

Output data flows: Coffeepedia information, Customer review

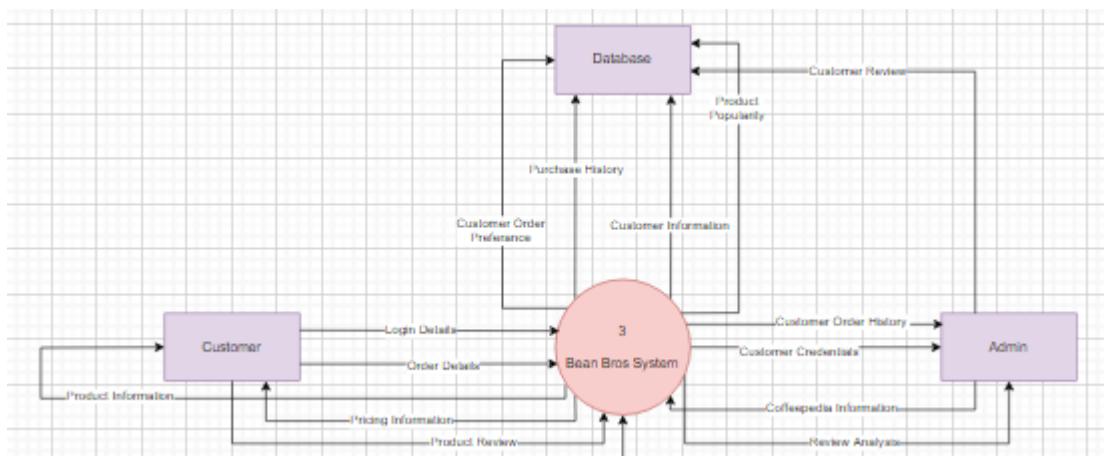


Name: Database

Description: Stores all data that comes in from both the customer and the admins. The data is stored so that the admins can use the information to improve on the site.

Input data flows: Customer review, Product popularity, Customer information, Purchase history, Customer order preference

Data Flow



Name: Order Details

Description: Customer sends their orders into the system

Source: Customer

Destination: Bean bros system

Data structure: Product ID, Product amount

Name: Login Details

Description: Customer sends their login details to the system

Source: Customer

Destination: Bean bros system

Data structure: Login ID, Password

Name: Product review

Description: Customer send in their review of a product

Source: Customer

Destination: Bean bros system

Data structure: Review

Name: Pricing information

Description: The system tells the customer the price of a product

Source: Beam bros system

Destination: Customer

Data structure: Currency

Name: Product information

Description: The system tells the customer the products information

Source: Bean bros system

Destination: Customer

Data structure: Product ID, Product description, Product price, Product quantity

Name: Customer order history

Description: Shows the admins the customer history of the order

Source: Bean bros system

Destination: Admin

Data structure: -

Name: Customer Credentials

Description: Shows the admin their members login details for security reasons

Source: Bean bros system

Destination: Admin

Data structure: Login ID, Password

Name: Coffeepedia information

Description: Lets the admin edit and modify details from the coffeepedia to ensure accuracy in their stock

Source: Admin

Destination: Bean bros system

Data structure: -

Name: Review Analysis

Description: Lets the admin look at customer reviews to obtain feedback from it

Source: Bean bros system

Destination: Admin

Data structure: Review

Name: Customer order preference

Description: Stores the specific customers order preferences

Source: Bean bros database

Destination: Database

Data structure: OrderPreferences

Name: Purchase history

Description: Stores the customers purchase history over their period of using

Source: Bean bros system

Destination: Database

Data structure: History

Name: Customer information

Description: Stores the login information of customers in the database

Source: Bean bros system

Destination: Database

Data structure: Login ID, Password

Name: Product popularity

Description: Shows the popularity of a product among customers

Source: Bean bros system

Destination: Database

Data structure: -

Name: Customer review

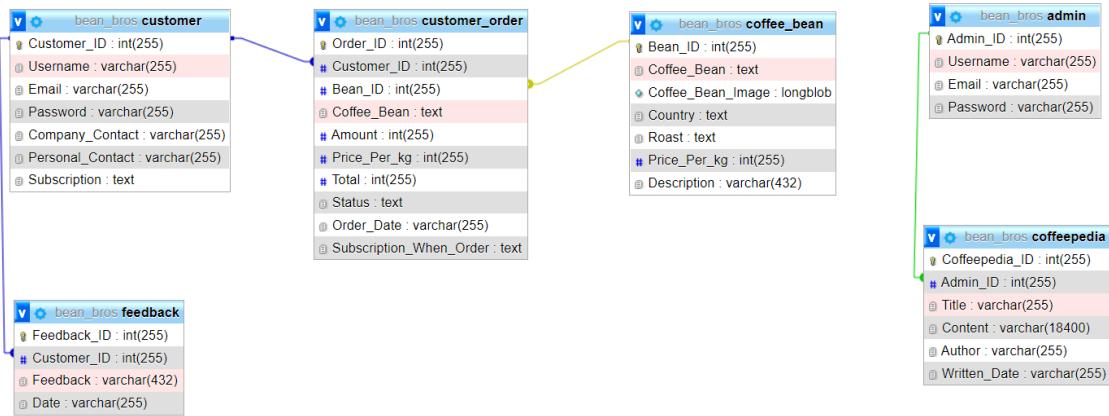
Description: Stores customer feedback in the database

Source: Admin

Destination: Database

Data structure: Review

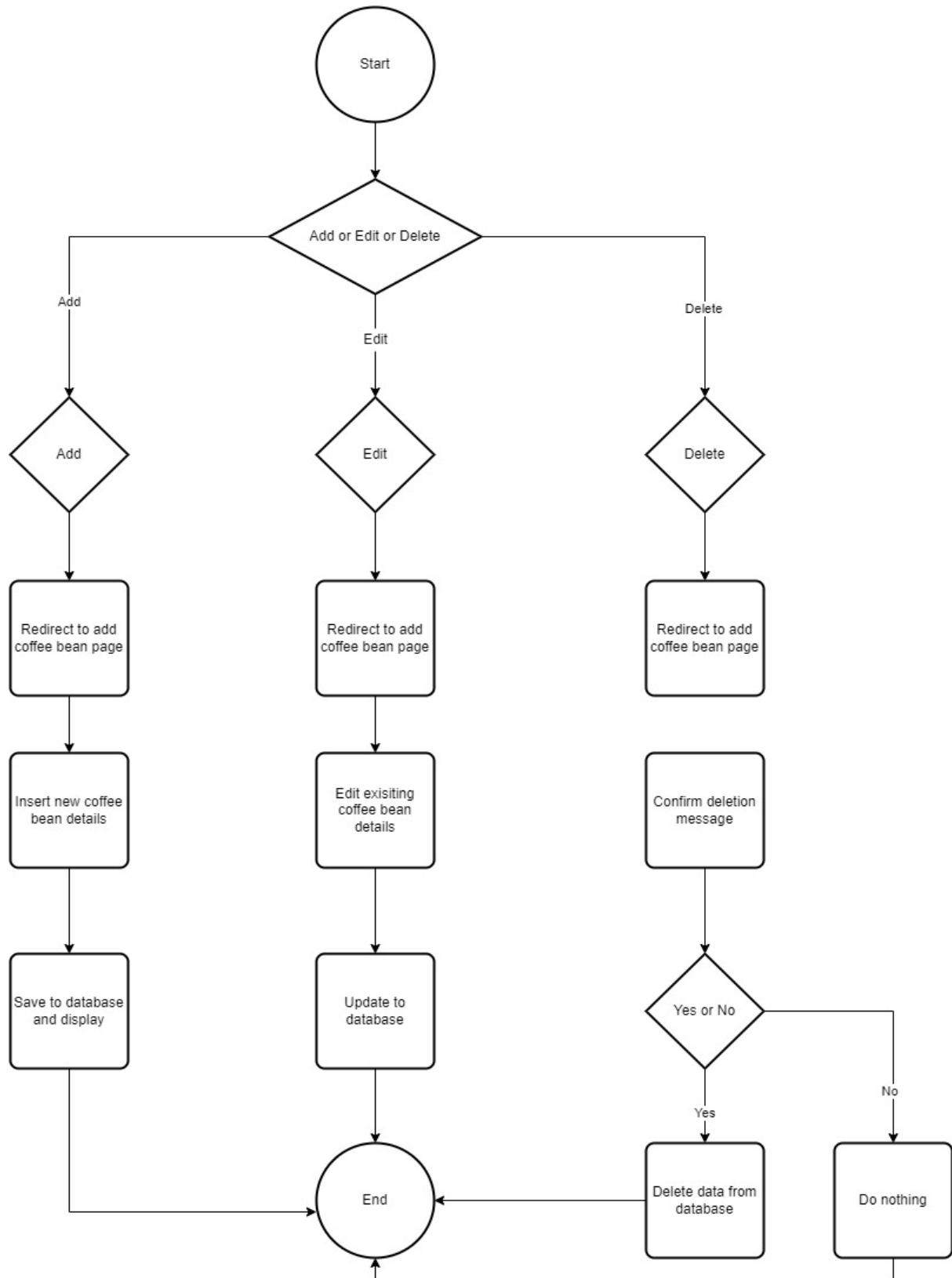
11. Entity Relationship Diagram



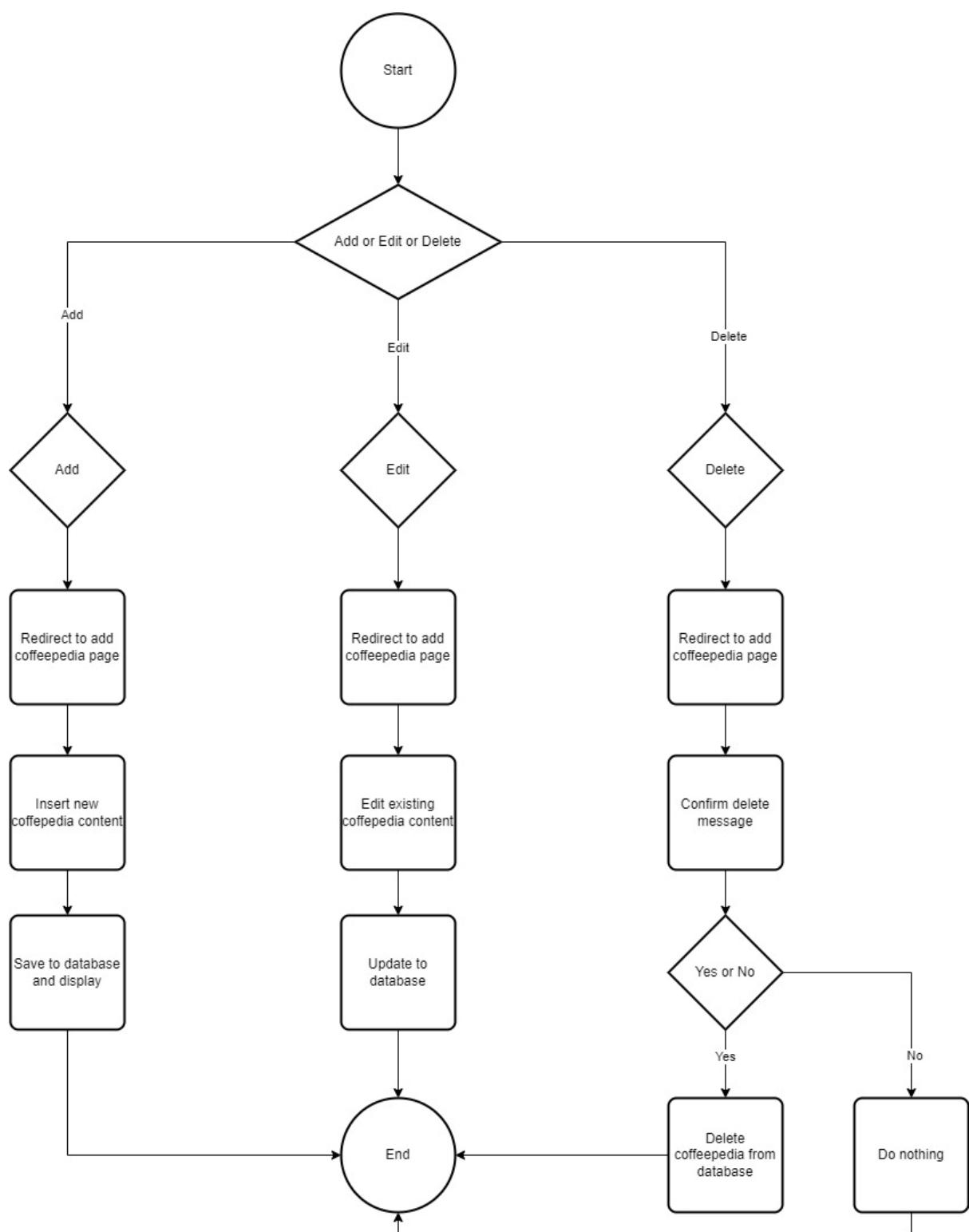
12. Flowchart

12.1 Yip Zi Xian (TP059963)

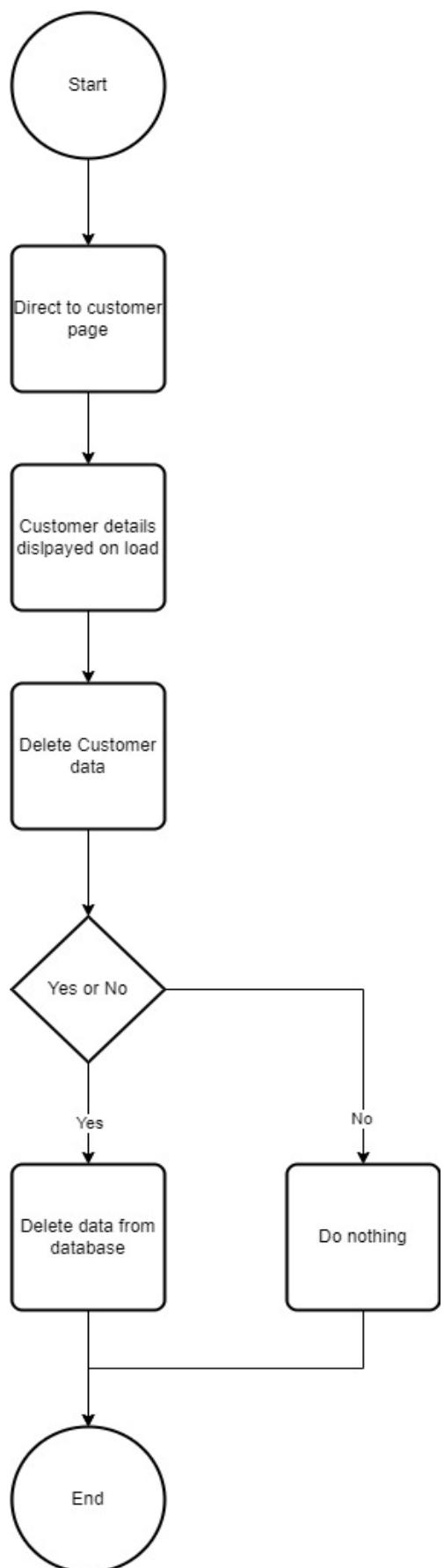
a. Manage Coffee Bean



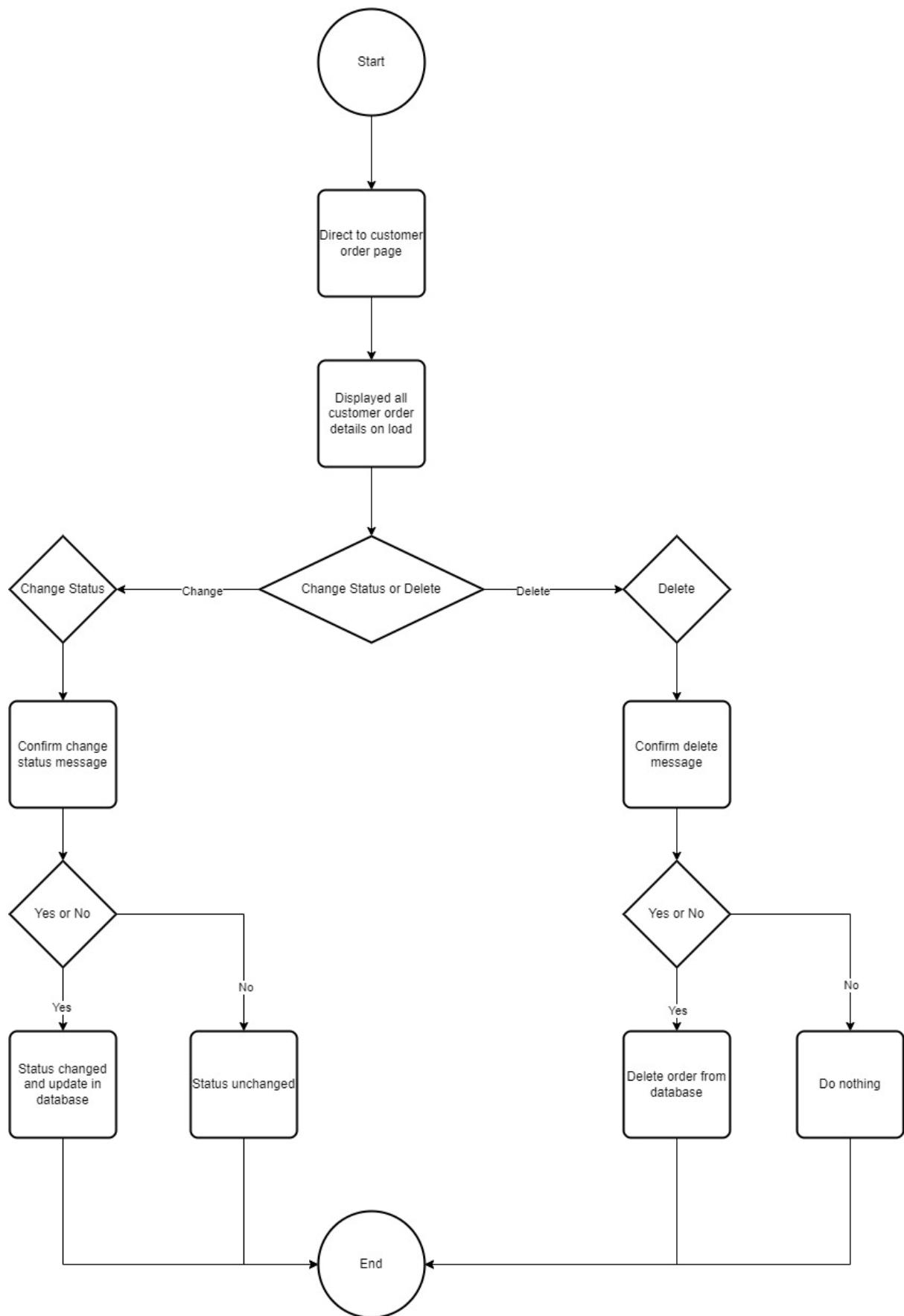
b. Manage Coffeepedia



c. **Check Customer**

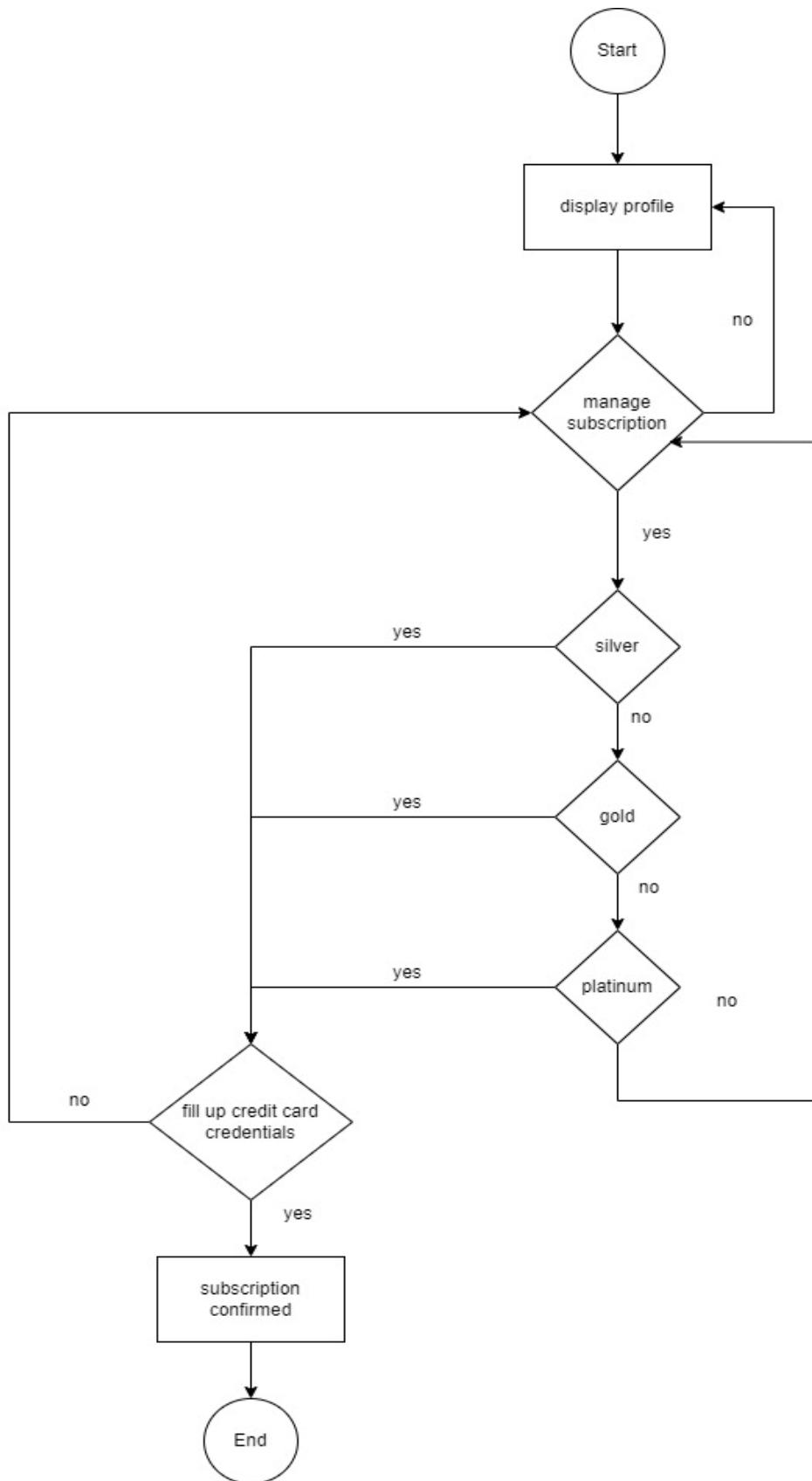


d. Check Customer Order



12.2 Ong Lit Tsen (TP060665)

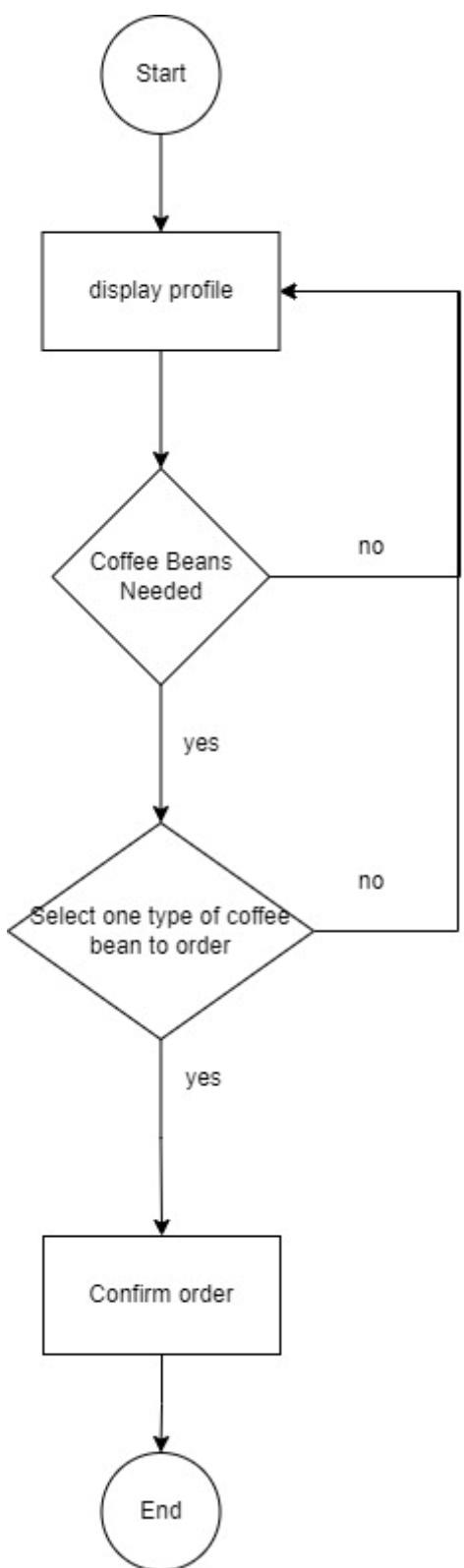
a. Change Subscription



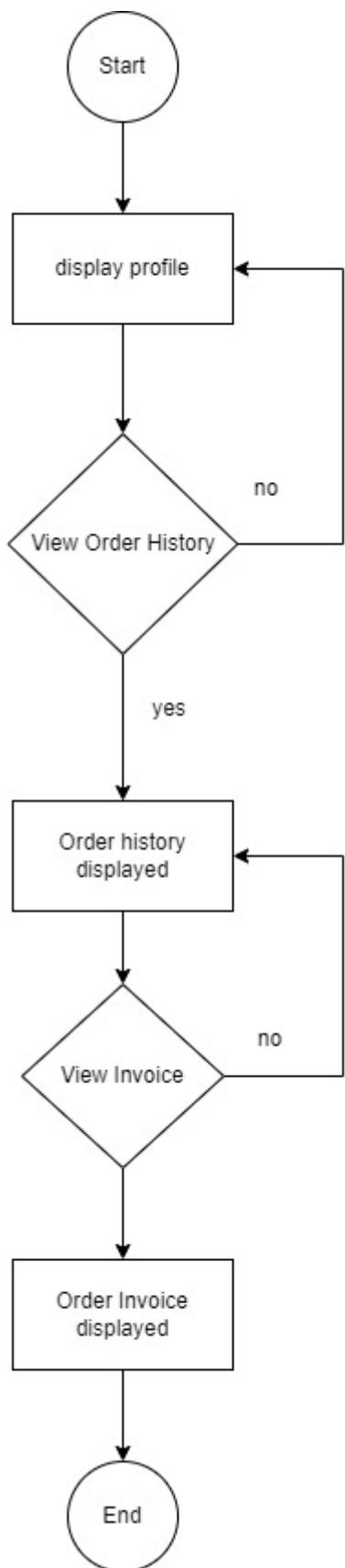
b. Submit Feedback



c. **Make Order**

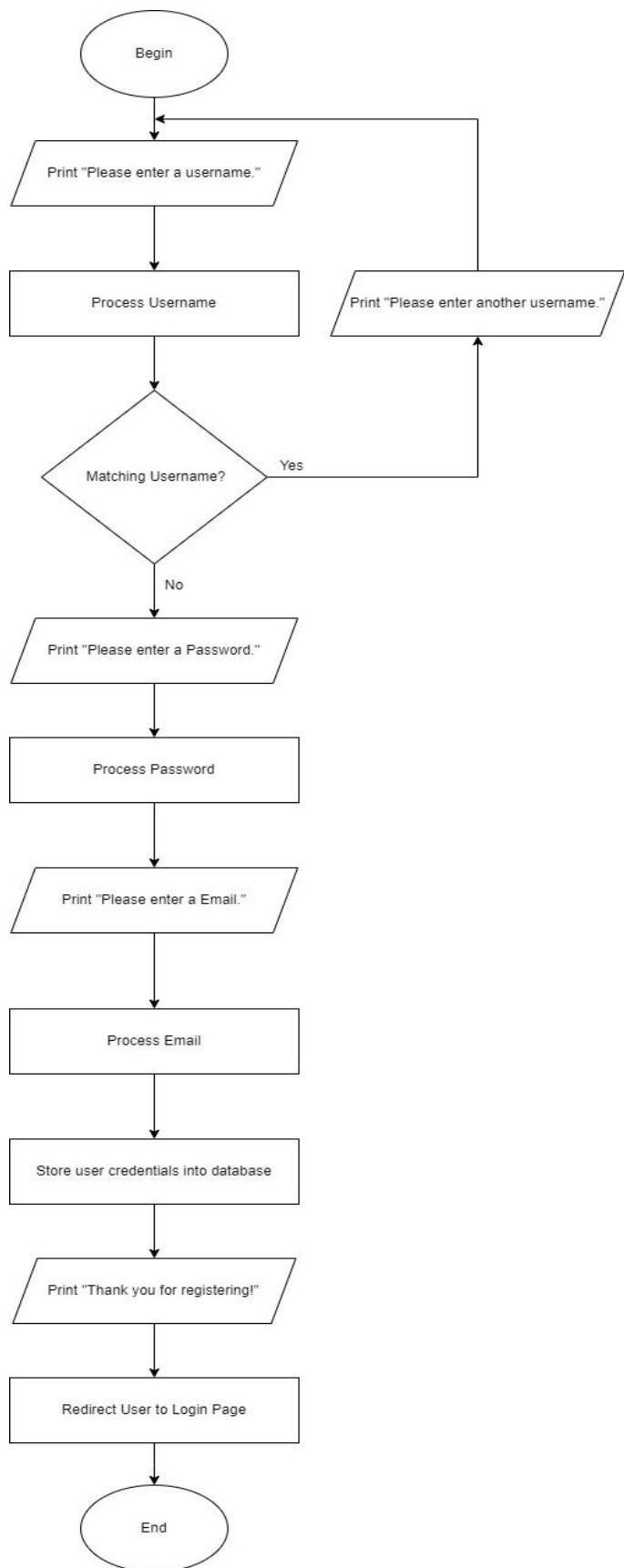


d. View Order History

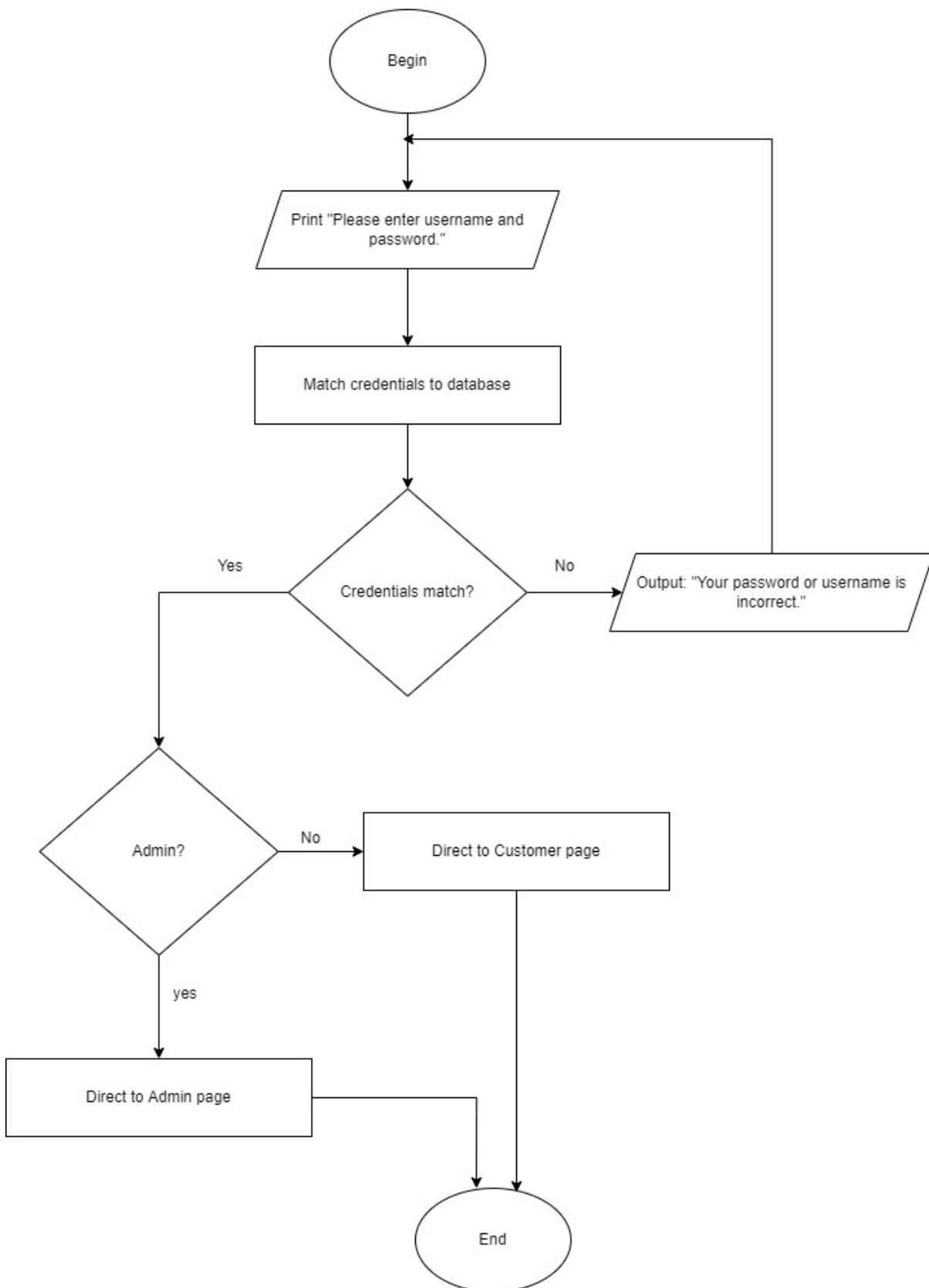


12.3 Marcus Ong Jin Rong (TP060821)

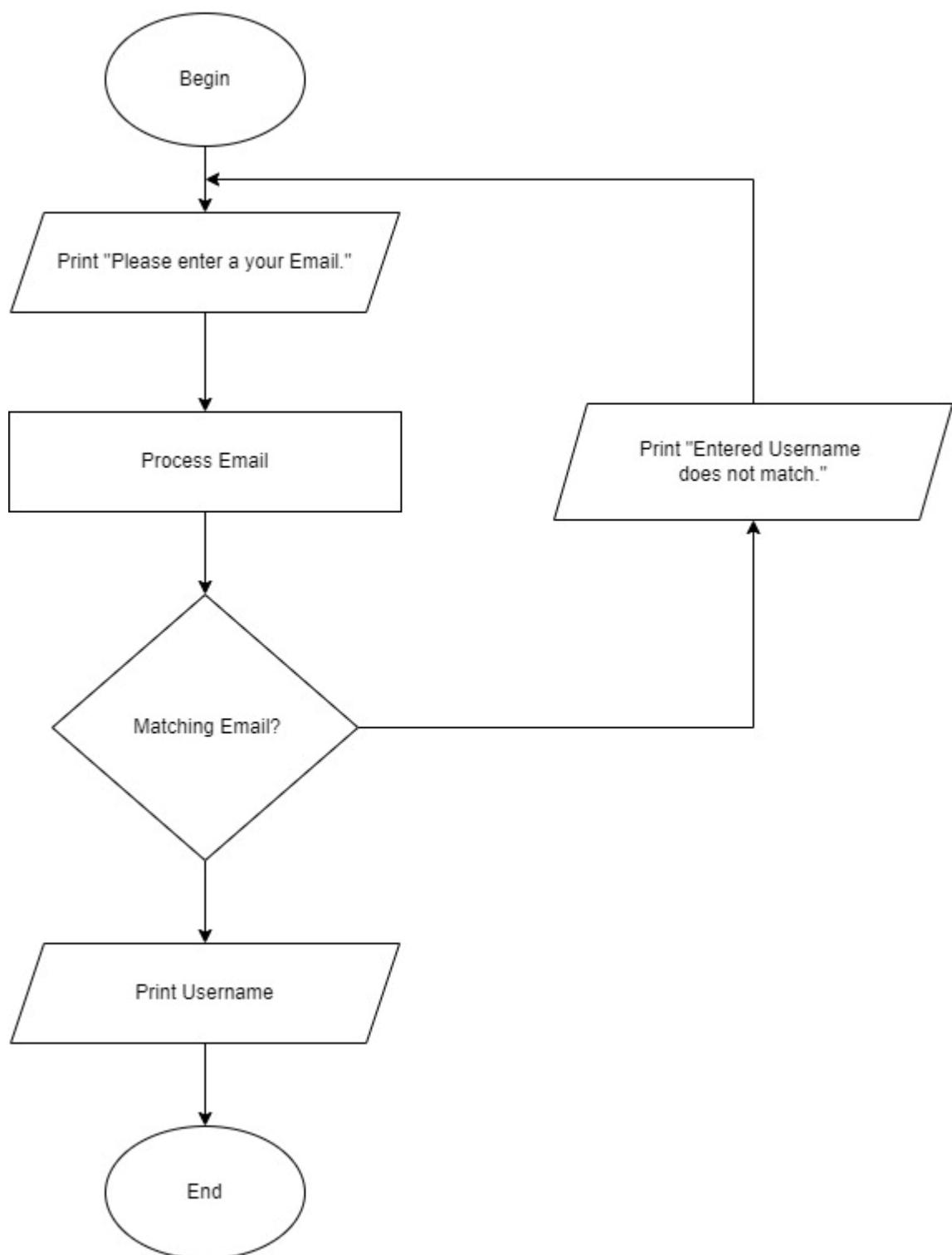
a. Registration



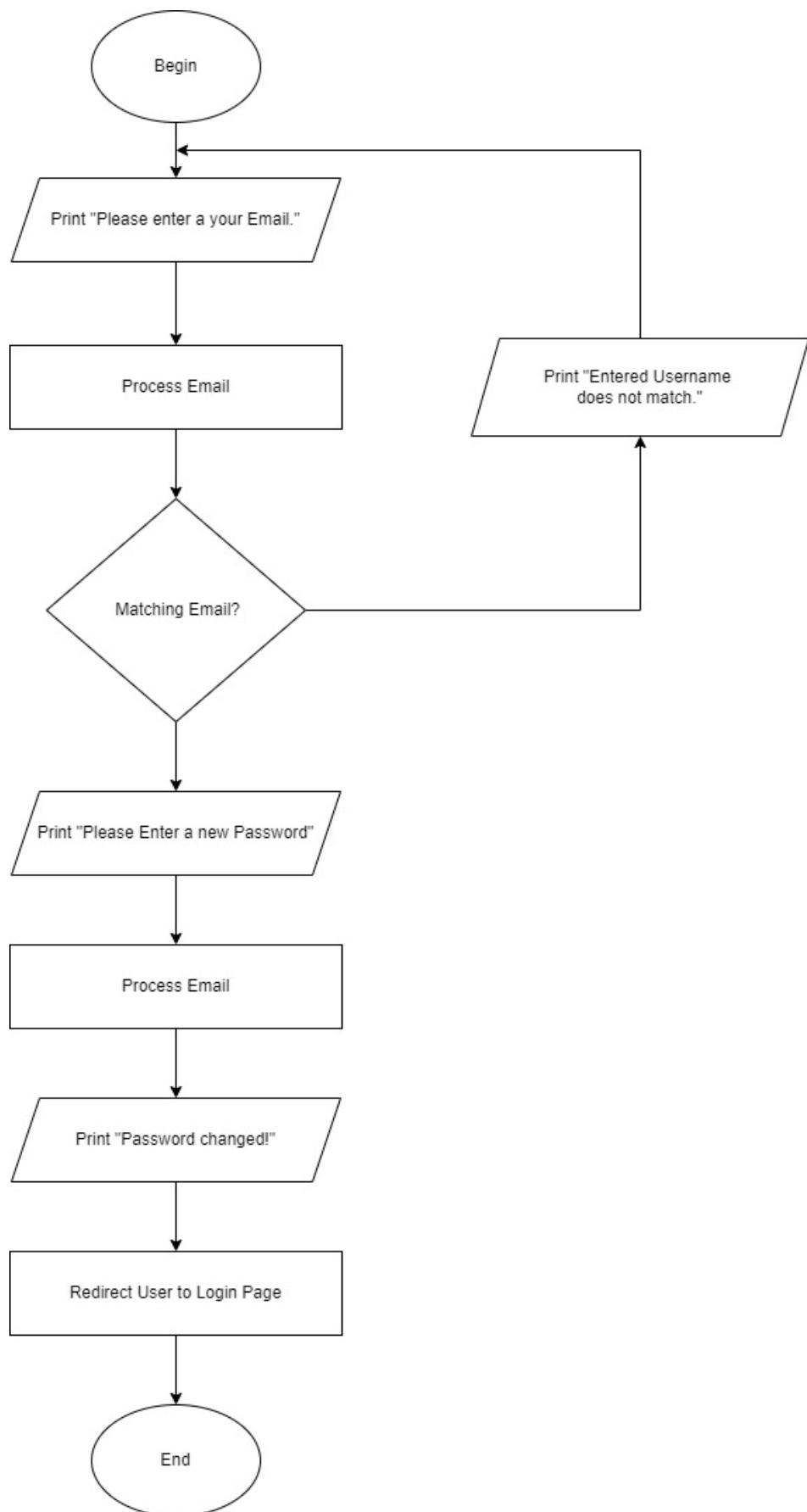
b. Login



c. **Forgot Username**

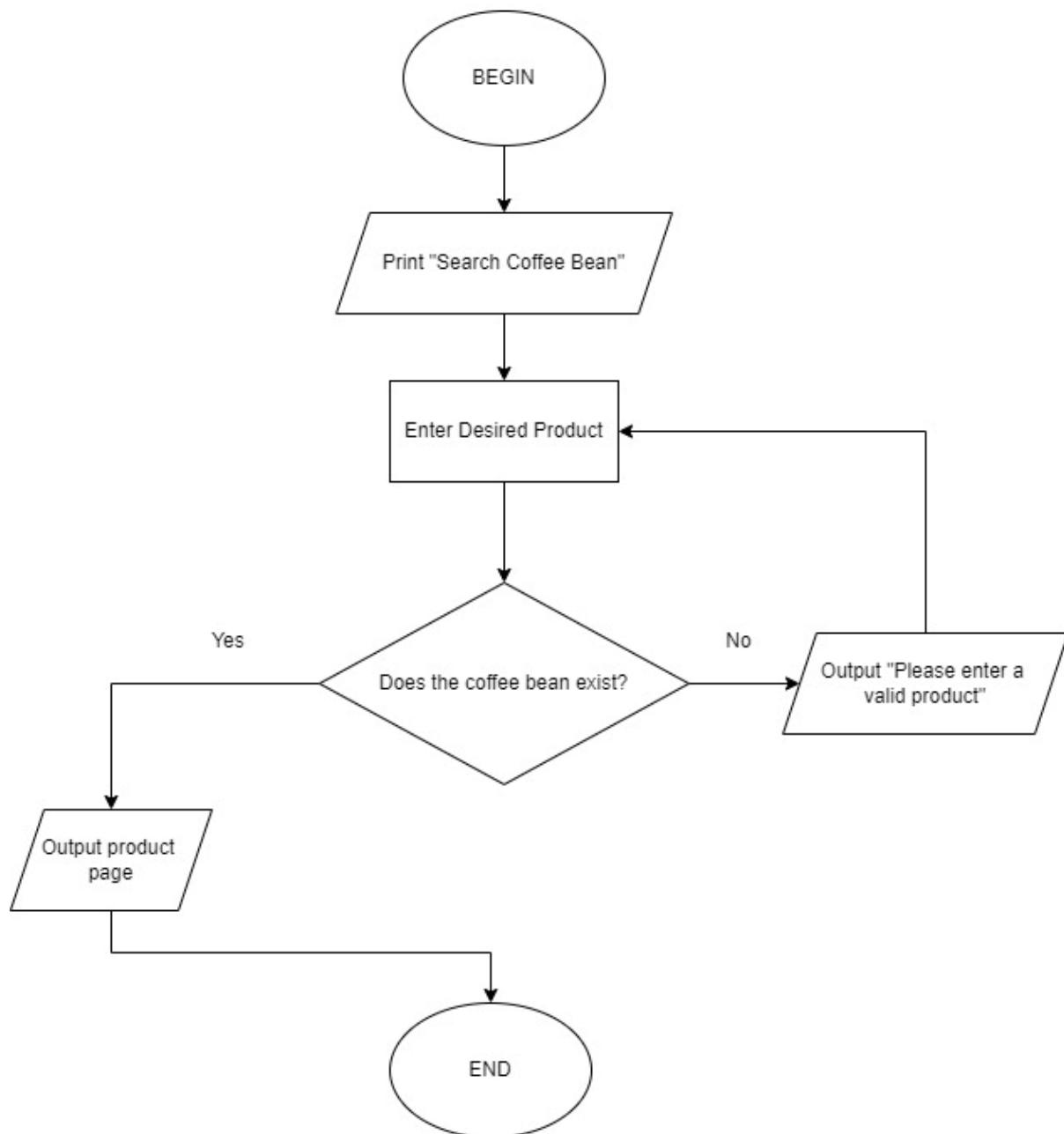


d. Forgot Password

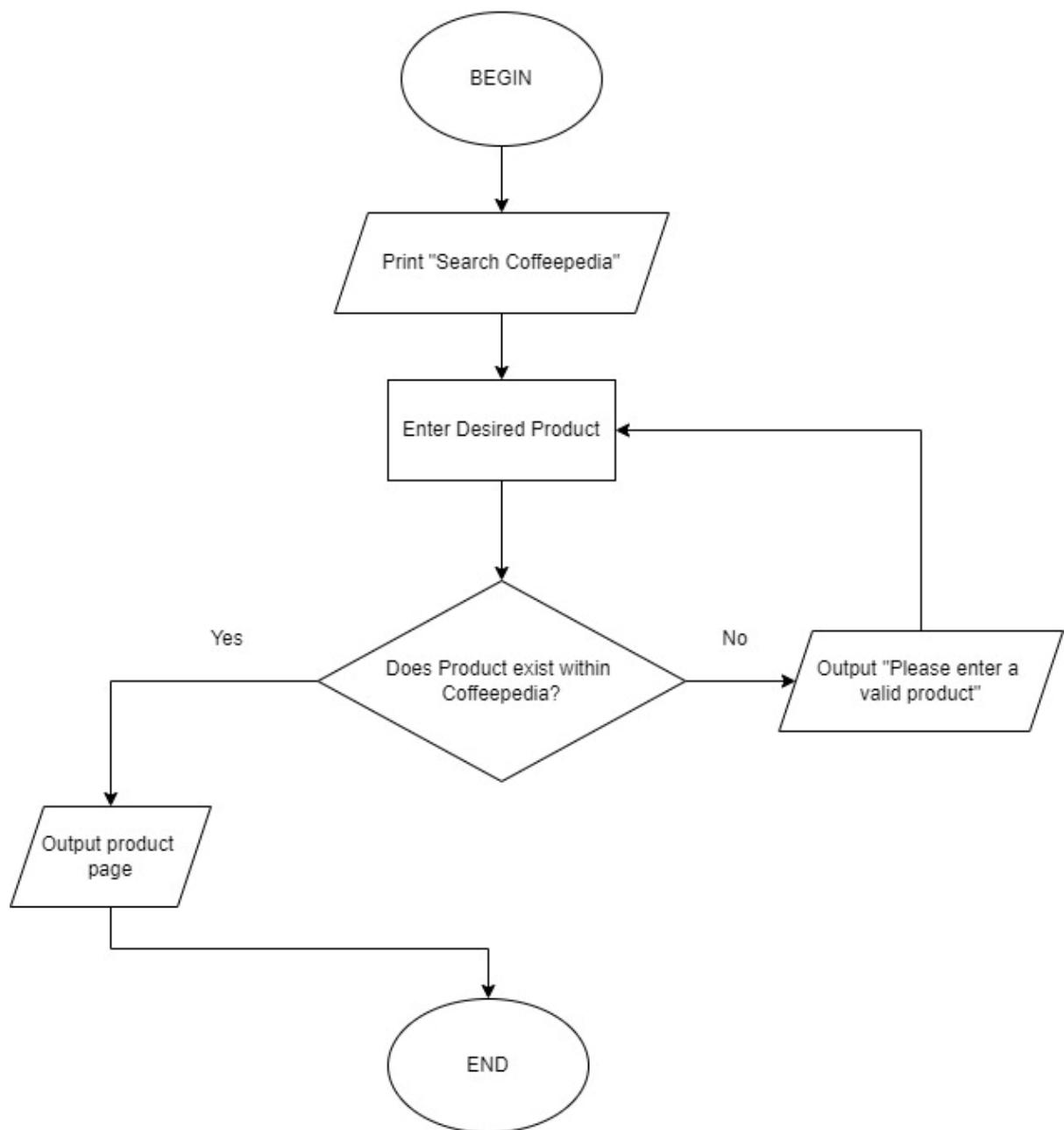


12.4 Kishanraj a/l K.Alagayah (TP061345)

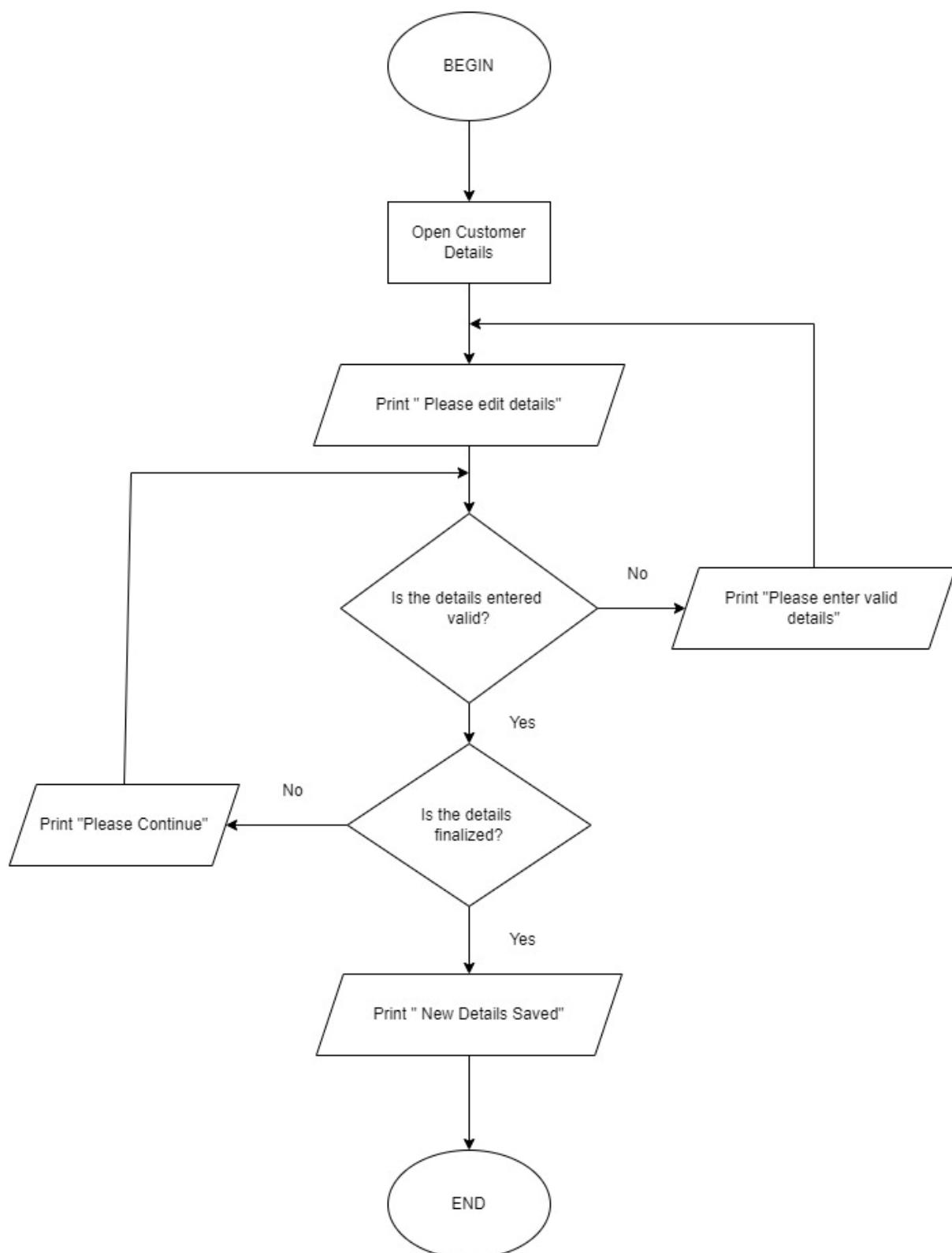
a. Browse and Search Coffee Bean



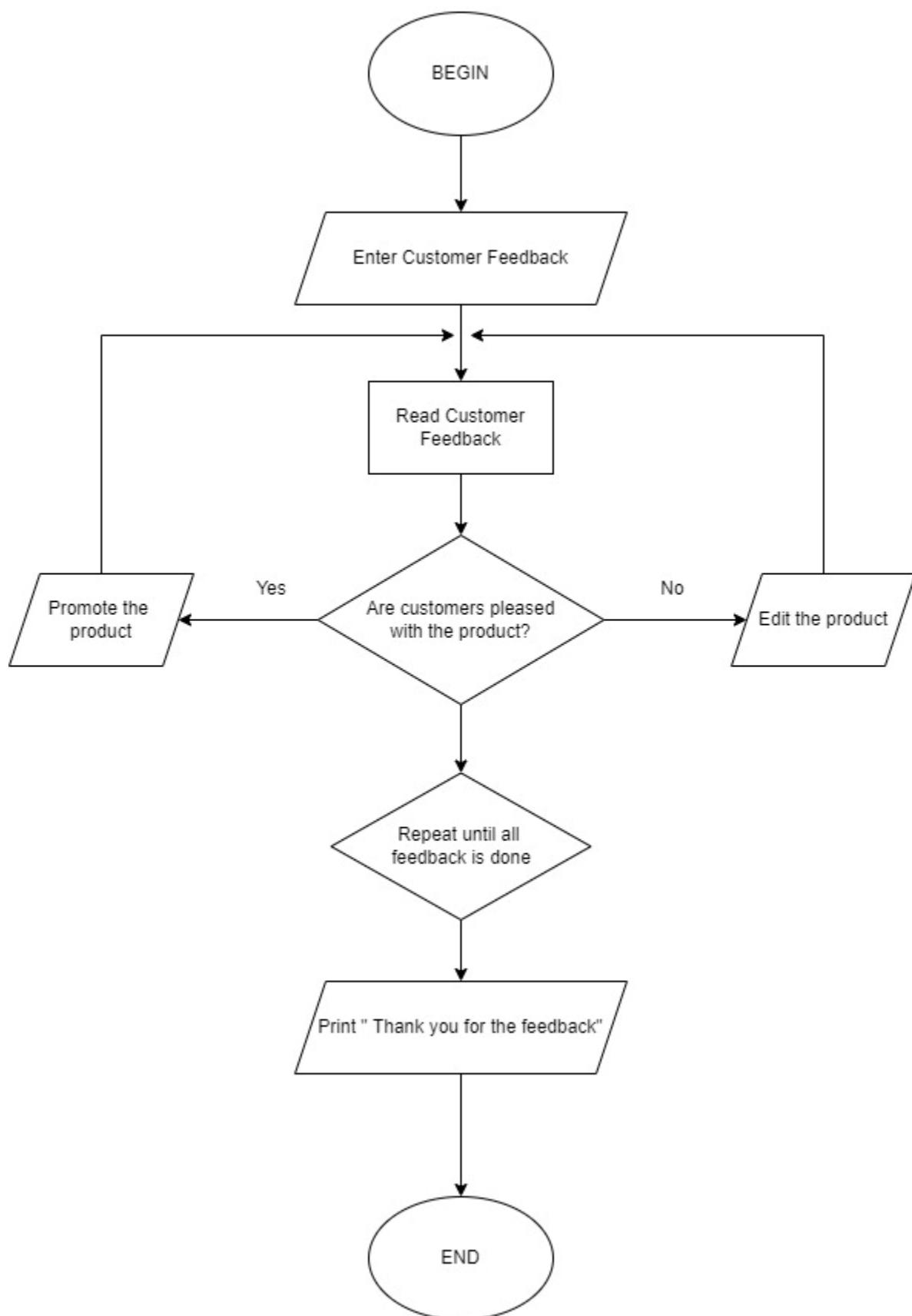
b. Browse and Search Coffeepedia



c. **Edit Personal Details**



d. **Check Customer Feedback**



13. Screen Design

Signup



Figure 1: Sign up (part 1)

This screenshot shows the continuation of the sign-up form from Figure 1. It includes several input fields with placeholder text:

- Username: Your Username
- Email Address: Your Company Email
- Password: Password
- Confirm Password: Confirm Password
- Contact Number (Work): Company Contact
- Contact Number (Personal): Personal Contact

Figure 2: Sign up (part 2)

This screenshot shows the final step of the sign-up process. It displays a single input field for 'Contact Number (Personal)' with the placeholder 'Personal Contact' and a 'Submit' button below it.

Figure 3: Sign up (part 3)



Figure 4: Sign up (part 4)

From figure 1 to figure 4 are sign up part of our Beans Bros Wholesaler website. If a customer wants to buy our product but have not create an account yet, they are always welcome to create an account at the sign-up page. Users are required to enter a username, company email address, password, confirm password, work contact number and personal contact number and click “Submit”. If there are any invalid or blank section, an alert message will be displayed otherwise, an account is ready to go.

Login

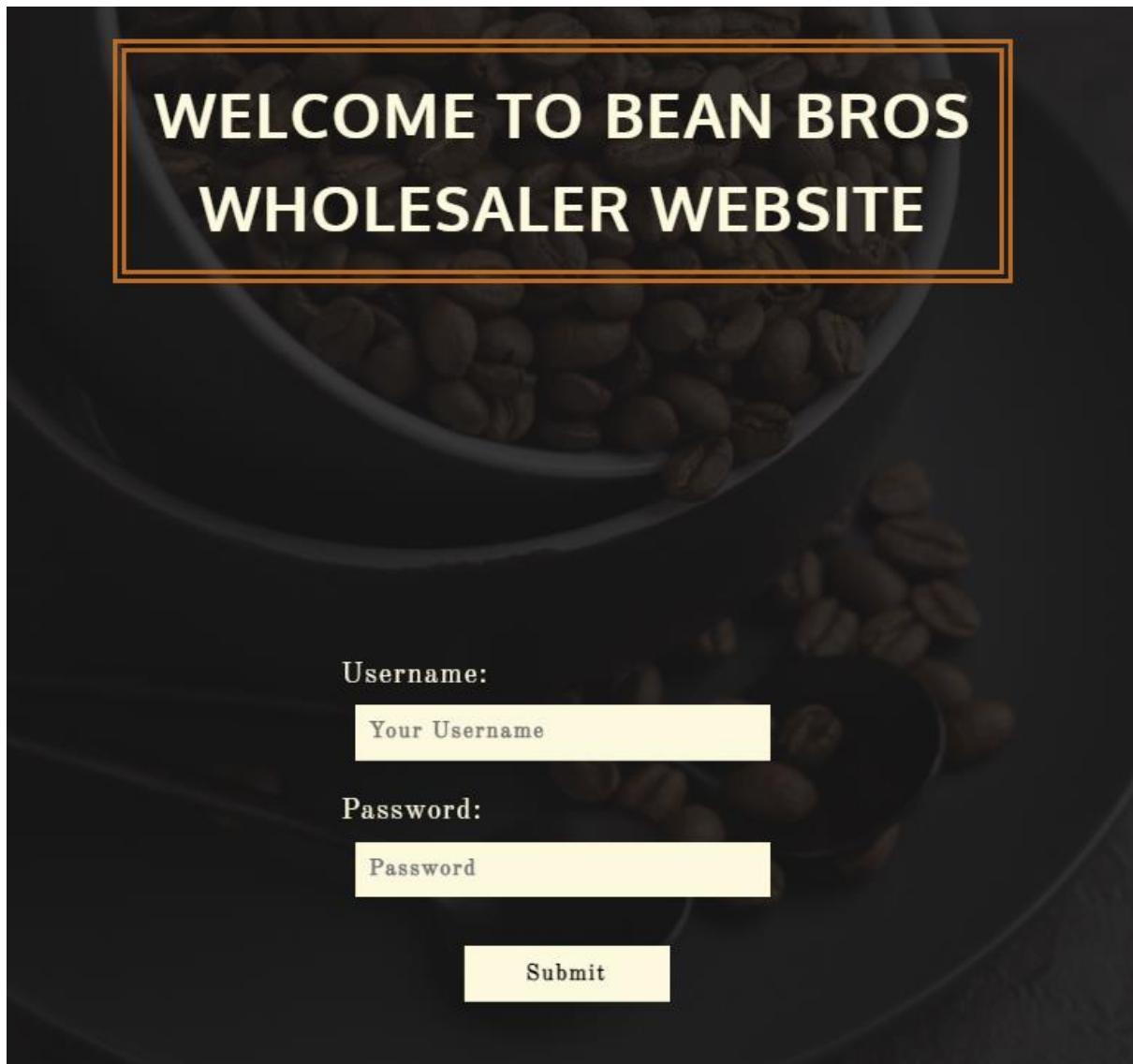


Figure 5: Login page

As for the login page, our customer and admin can have access to their accounts through this page. User will have to key in the respective sections which is the username and password created will be used to login to get access to our website.

[Forgot Password](#)

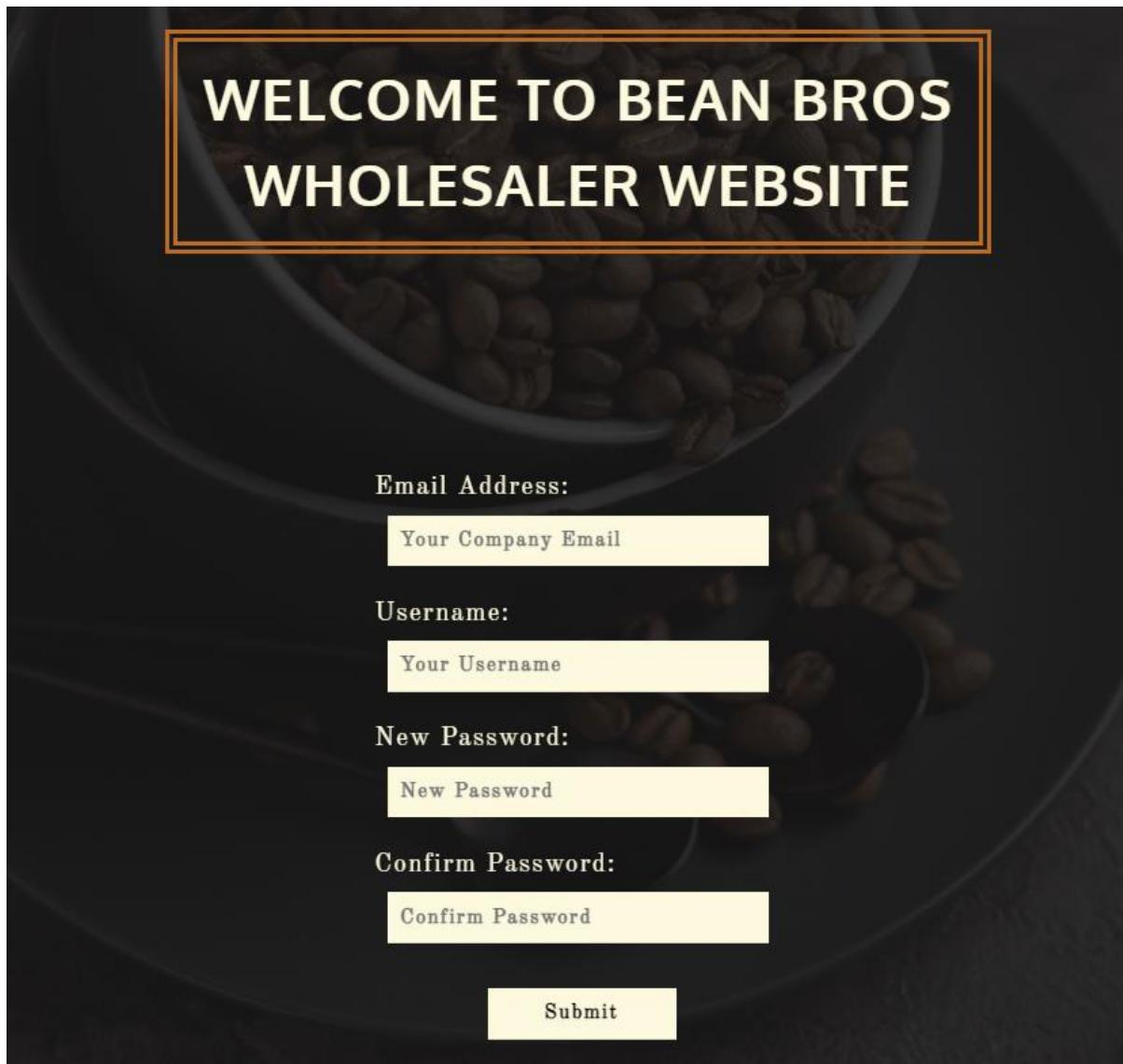
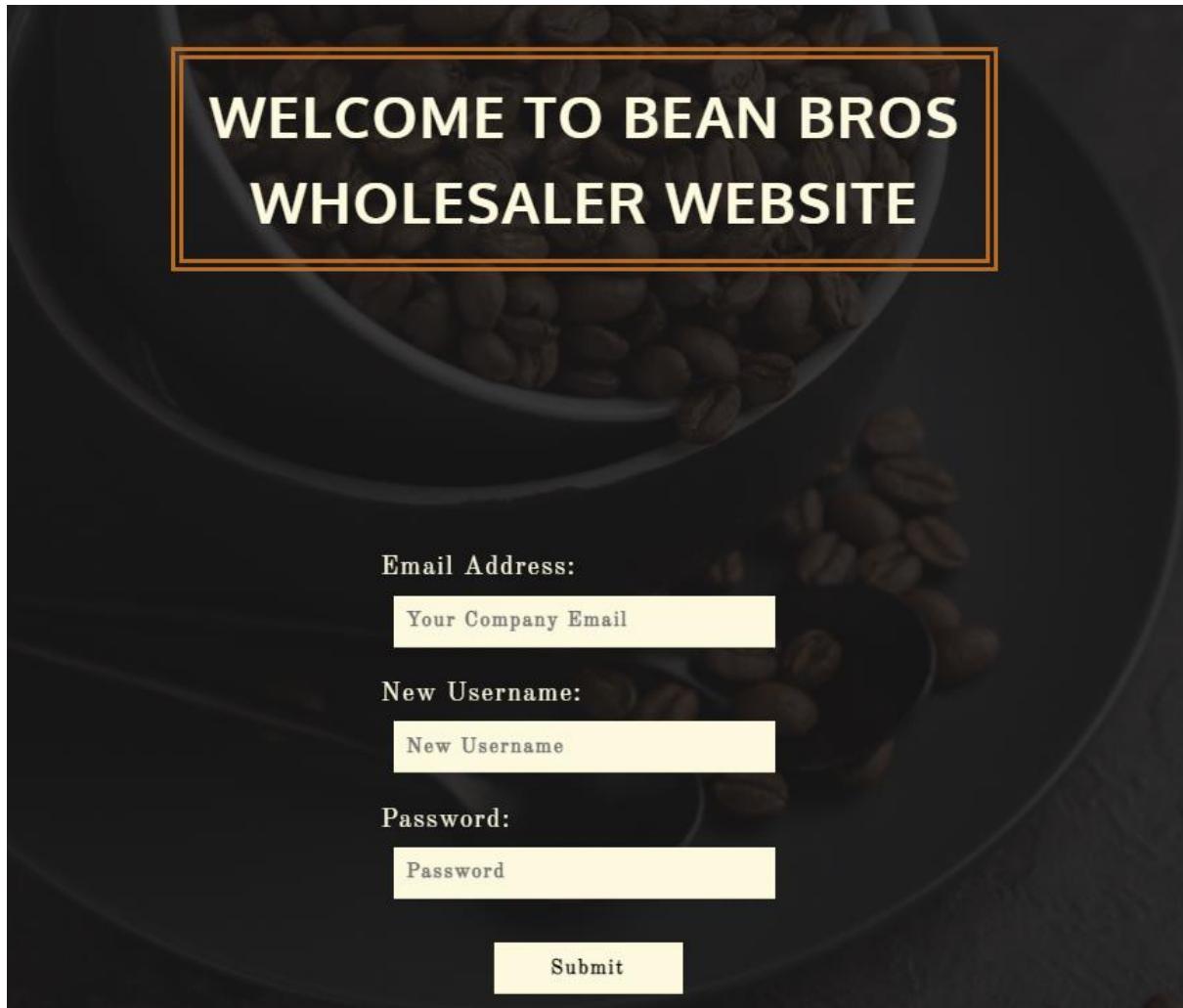


Figure 6: Forgot Password page

If a customer forgot their password, they could click the forgot password. Then, fill up the company email address, username, new password and confirm password to get the new password set. Validation will be done through company email address and username to know that it is the user of this account and not strangers messing with our user's account.

[Forgot Username](#)



**WELCOME TO BEAN BROS
WHOLESALE WEBSITE**

Email Address:

New Username:

Password:

Submit

Figure 7: Forgot username page

As for user that have forgotten their username, they can proceed to click forgot username. Then, fill up the company email address, new username, and password. Validation will be done through company email address and password to know that it is the user of this account and not strangers messing with our user's account.

Home Page (Customer & Admin)



Figure 8 : Home page (part 1)



Figure 9 : Home page (part 2)



Figure 10 : Home page (part 3)



Figure 11 : Home page (part 4)

MEMBERSHIP



SILVER

RM39.90/month

Special and unique monthly gifts

Notify for exclusive promotions via newsletter

15% off for total coffee bean purchases



GOLD

RM79.90/month

Prioritized delivery

Special and unique monthly gifts

Notify for exclusive promotions via newsletter

25% off for total coffee bean purchases



PLATINUM

RM159.90/month

Special access to VIP room

Prioritized delivery

Special and unique monthly gifts

Notify for exclusive promotions via newsletter

40% off for total coffee purchases

Figure 12 : Home page (part 5)

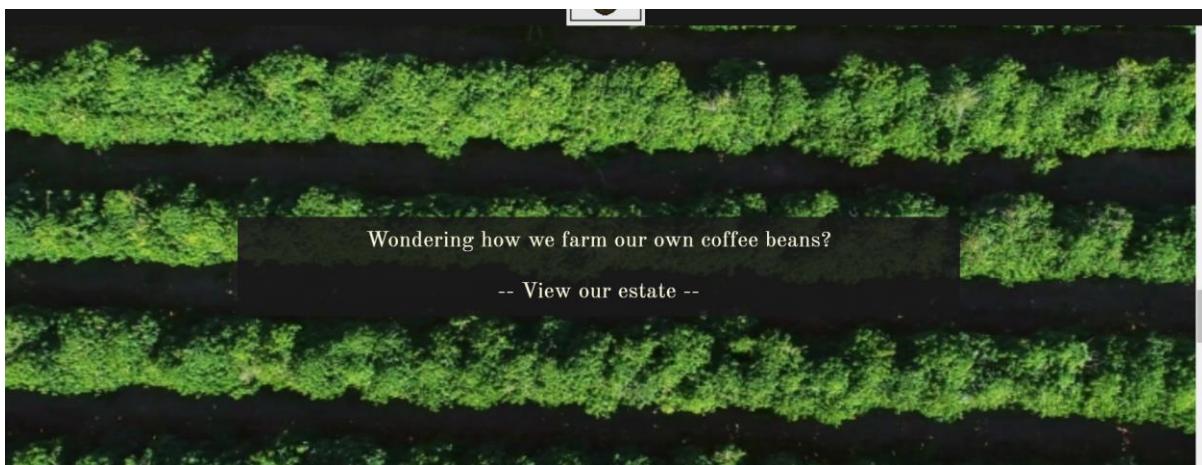


Figure 13 : Home page (part 6)

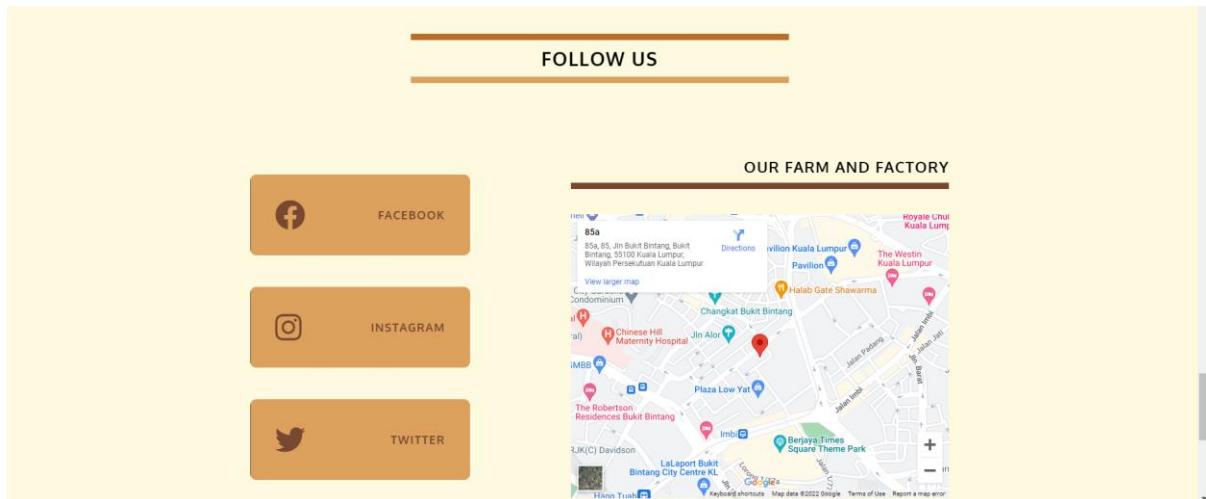


Figure 14 : Home page (part 7)



Figure 15 : Home page (part 8)

From figure 8 to figure 15, in bean bros website's home page, first there will be a header for user to direct to any pages that they prefer. Besides, users can also click any coffee bean image on our website, to be directed to the bean page and have a look at the bean's details for example, price, country produced, roast type etc. Moreover, our user can have a look at the membership type that our website offer, which are silver, gold and platinum then upgrade their subscription at the profile. As for figure 13, the view our estate can be clicked and be directed to our about us page. Lastly, there will be follow us section for customers to follow us on social media and the location of our coffee farm. The footer consists of summarize of our website.

Bean Page (Customer)



Figure 16: Bean page (part 1)



Figure 17: Bean page (part 2)

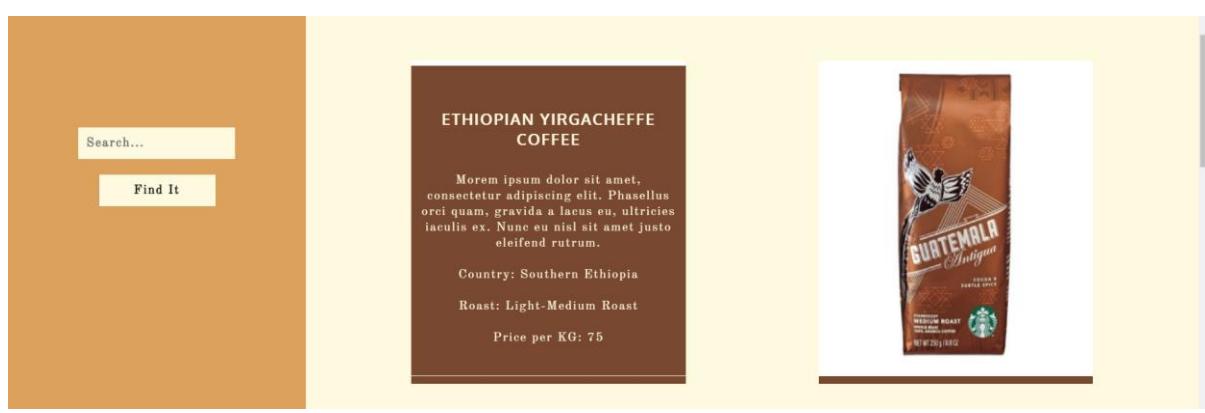


Figure 18: Bean page (part 3)

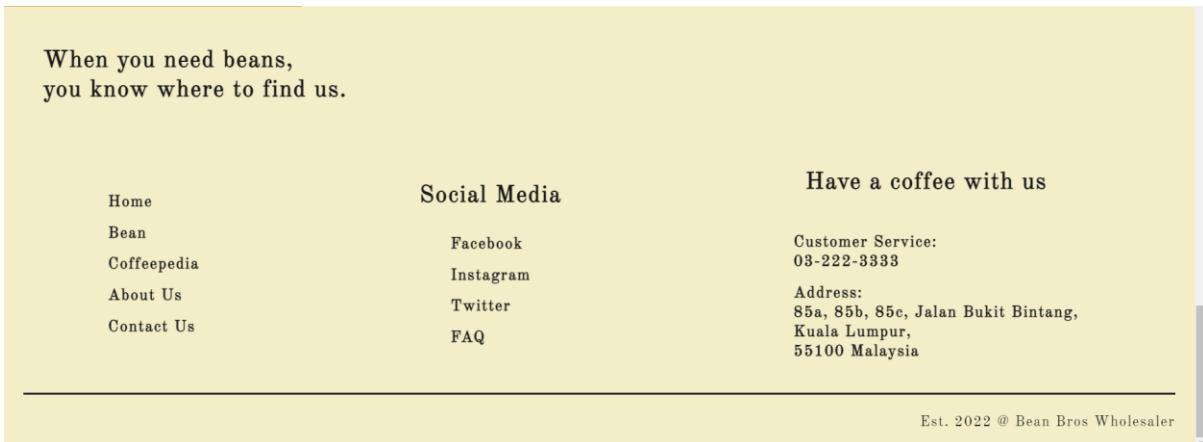


Figure 19: Bean page (part 4)

From figure 16 to figure 19 are coffee bean's page. In this page our lovely customer can get to know more about our coffee beans and the details of them. The image hover will provide the necessary information for customer to understand the preferred coffee bean before ordering that coffee bean. The search function is provided for customer to filter coffee bean and the idea of it is like "straight to the point" just search the coffee bean that they prefer, or they want to know about.

Coffeepedia Page (Customer)

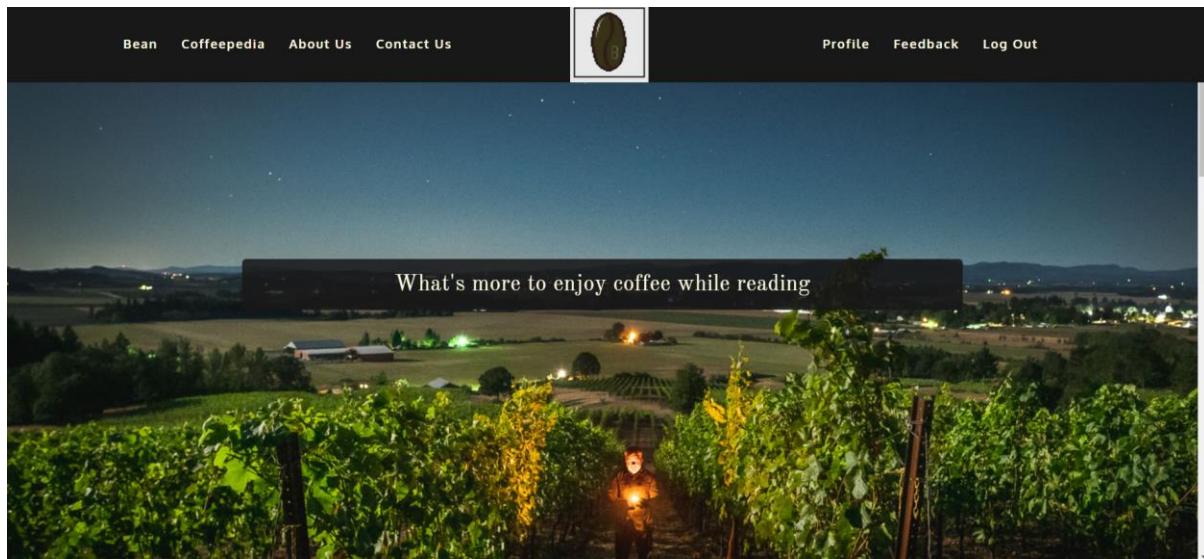


Figure 20 : Coffeepedia (part 1)

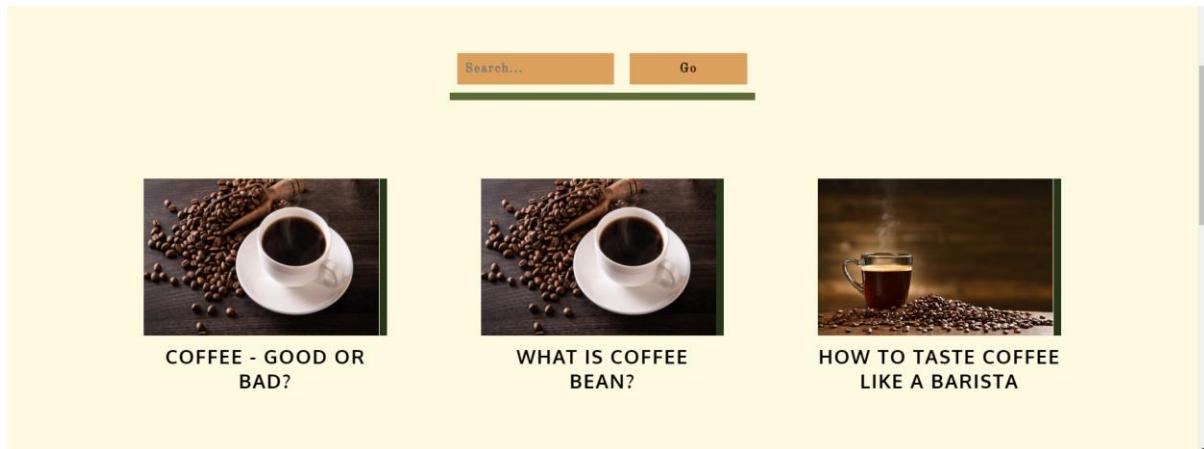


Figure 21 : Coffeepedia (part 2)

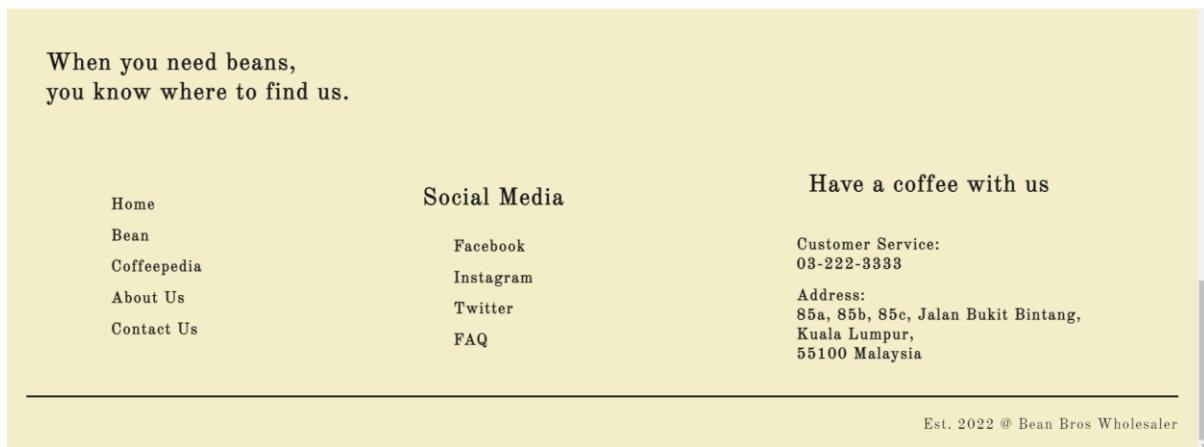


Figure 22 : Coffeepedia (part 3)

As for our coffeeepedia page, customer can click one from the coffeeepedia page to read the article that they prefer to read. After clicking one, customer will be directed to the article page, the author of the article, written date and the article content will be displayed.

About Us Page (Customer & Admin)

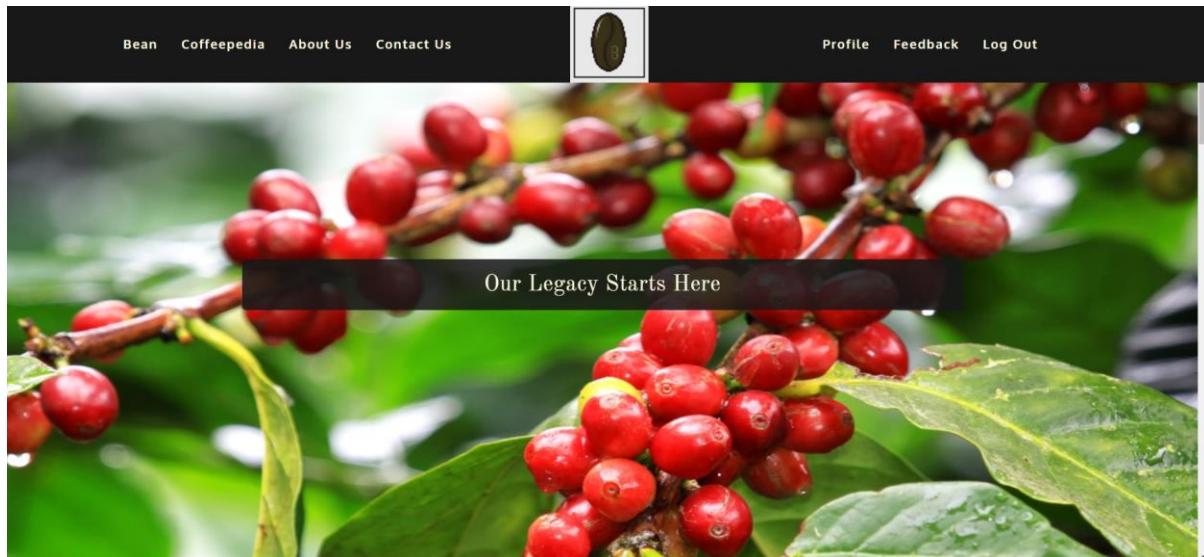


Figure 23: About Us page (part 1)

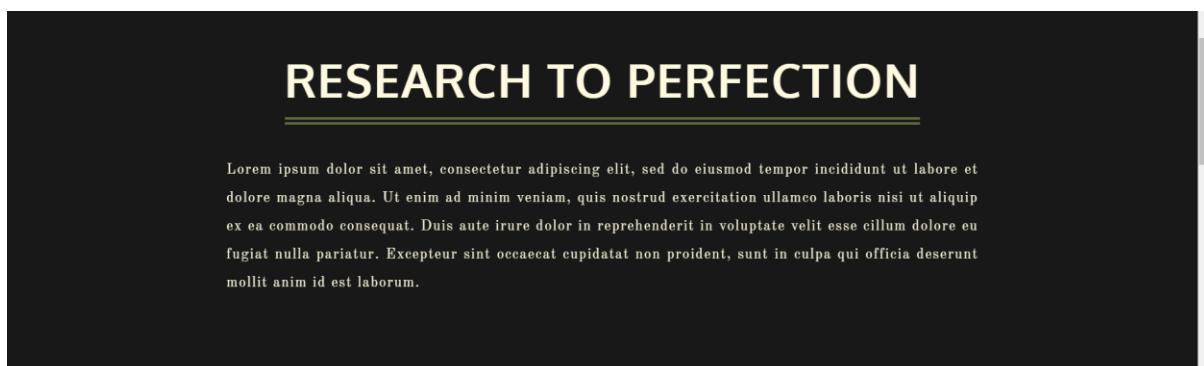


Figure 24: About Us page (part 2)



Figure 25: About Us page (part 3)

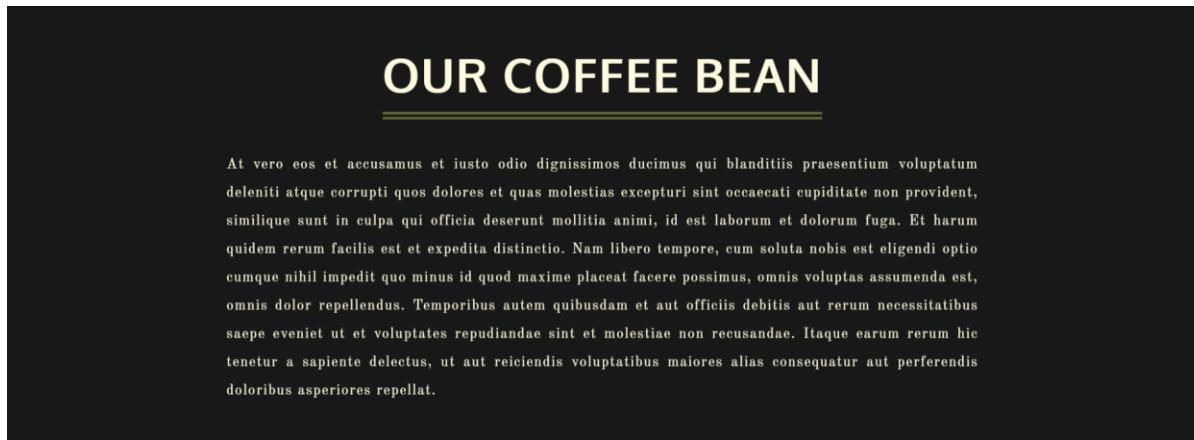


Figure 26: About Us page (part 4)

When you need beans,
you know where to find us.

Social Media

- Home
- Bean
- Coffeepedia
- About Us
- Contact Us

Social Media

- Facebook
- Instagram
- Twitter
- FAQ

Have a coffee with us

Customer Service:
03-222-3333

Address:
85a, 85b, 85c, Jalan Bukit Bintang,
Kuala Lumpur,
55100 Malaysia

Est. 2022 @ Bean Bros Wholesaler

Figure 27: About Us page (part 5)

In this about us page, it is considered as an introduction of our business, there will be a brief introduction of our coffee bean, how we farm and plant them to reach the perfection and top-class coffee bean.

Contact Us Page (Customer & Admin)

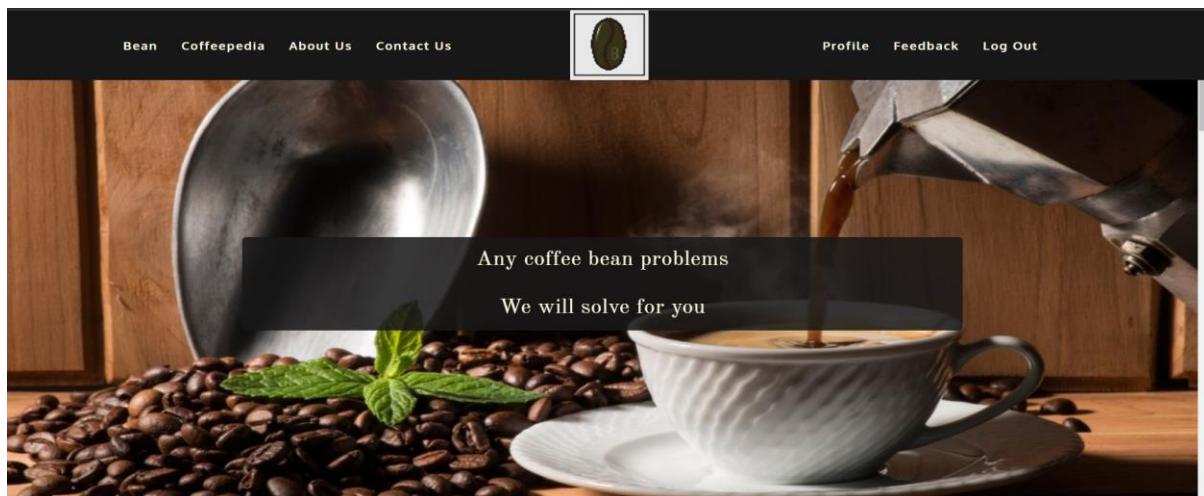


Figure 28 : Contact Us page (part 1)



Figure 29 : Contact Us page (part 2)

QUESTION FOR US?

Any enquiries, please email to beanbros2022@gmail.com.
We will reply to your message during working hours.

Customer Service: 03-222-3333 Plantation Location: 85a, 85b, 85c, Jalan Bukit Bintang, Kuala Lumpur, 55100 Malaysia Opening Hours: Mon - Thurs (8:00a.m. - 7:30p.m.) Fri - Sun (9:00a.m. - 6:30p.m.) Facebook Instagram Twitter	<input type="text" value="Your Company Name"/> <input type="text" value="Name"/> <input type="text" value="Your Company Email Address"/> <input type="text" value="Email"/> <input type="text" value="Tell us your question..."/> <input type="text" value="Message"/> <input type="button" value="Submit"/>
--	--

Figure 30 : Contact Us page (part 3)

When you need beans,
you know where to find us.

Home Bean Coffeepedia About Us Contact Us	Social Media Facebook Instagram Twitter FAQ	Have a coffee with us Customer Service: 03-222-3333 Address: 85a, 85b, 85c, Jalan Bukit Bintang, Kuala Lumpur, 55100 Malaysia
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Est. 2022 @ Bean Bros Wholesaler

Figure 31: Contact Us page (part 4)

In the contact us page, there will be some display of our coffee bean shops connections. As shown in figure 30, there are contact number, location of our farm, opening hours and social media accounts also, customer can contact us through the form for any enquiries and we will reply during working hours.

Profile Page (Customer)



Figure 32: Customer Profile page (part 1)

A screenshot of the 'PERSONAL DETAILS' section of the customer profile. The background is dark. The title 'PERSONAL DETAILS' is at the top in a light green font. Below it, several user details are listed in white text:

- Username: ong
- Email: ong@gmail.com
- Contact Number (Personal): 0123456788
- Contact Number (Work): 808010477
- Password: *#*#*#*#*
- Subscription Tier: Gold

Figure 33: Customer Profile page (part 2)

A screenshot of the footer section of the customer profile. It features five interactive buttons with orange horizontal bars underneath them:

- 'Edit Contact Details'
- 'Manage Subscription'
- 'Submit a Feedback'
- 'Coffee Beans Needed'
- 'View Order History'

Figure 34: Customer Profile page (part 3)

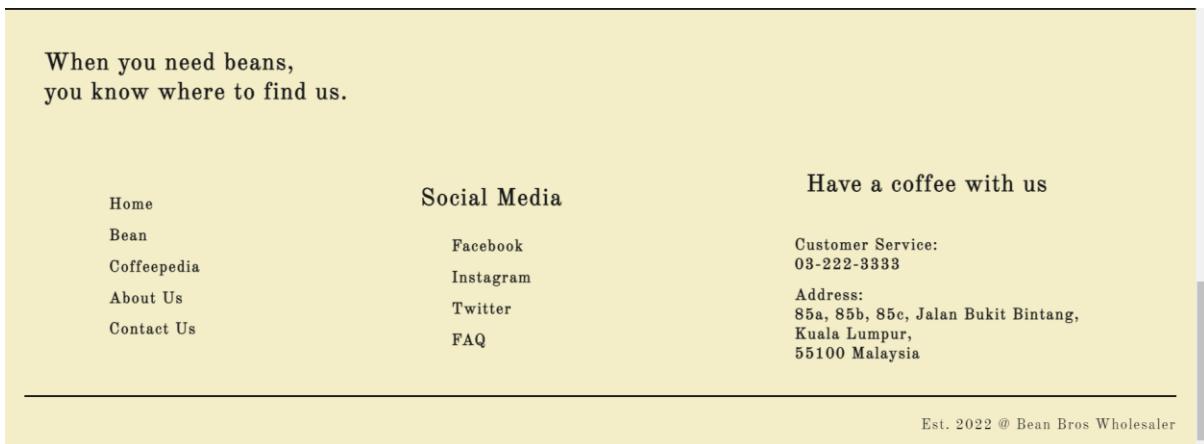


Figure 35: Customer Profile page (part 4)

In profile page, customer can check their details and perform some functions such as edit their contact details, change subscription, submit a feedback, coffee beans needed and view order history.

Edit Contact Details (Customer)

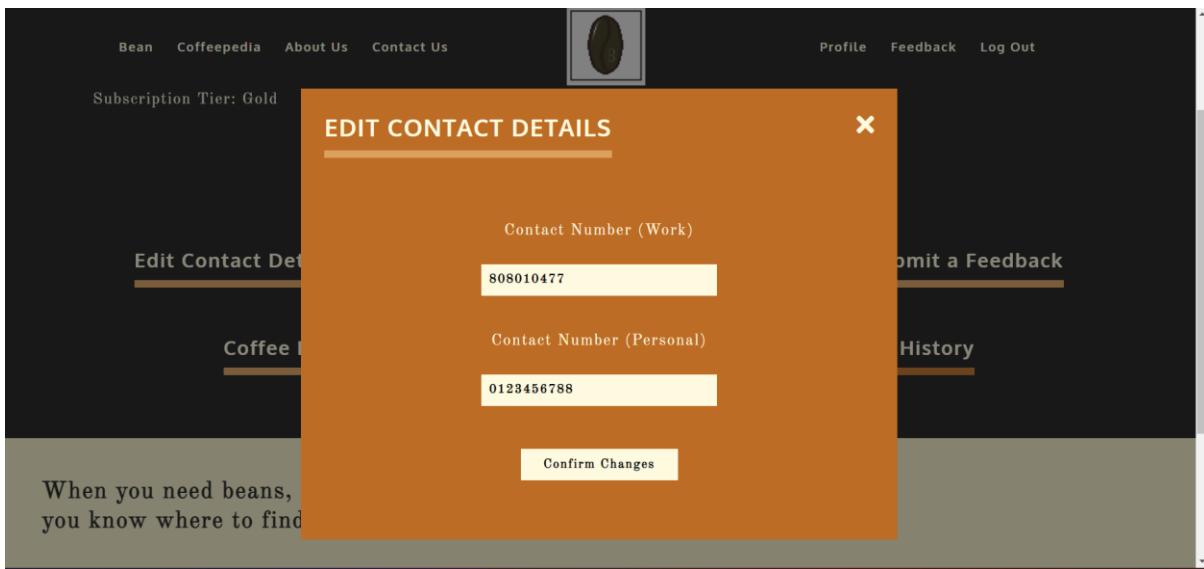


Figure 36 : Edit contact details pop up

If our customer wants to edit their contact number (work) or personal contact number, they can edit the following sections and click confirm changes to get the new contact number updated right away.

Manage Subscription page (Customer)



Figure 37: Manage subscription (part 1)

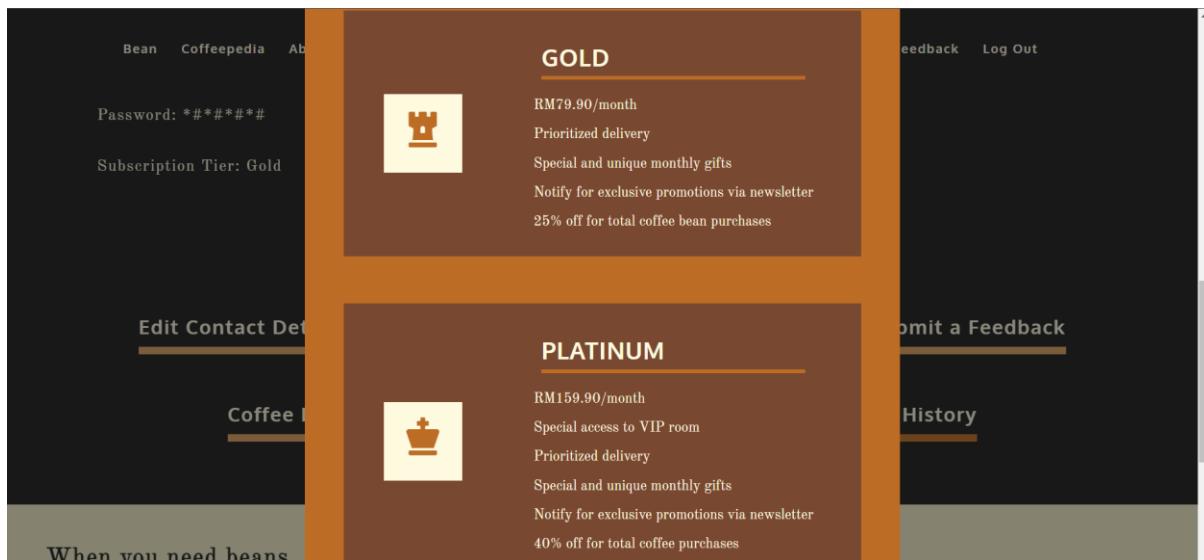


Figure 38: Manage subscription (part 2)

Customer can change their subscription tier based on personal preference in this page. If the customer prefers to change their subscription to platinum tier, they can click the “Platinum” and enter their credit card number, card expiry date and card CVV to get the subscription upgrade done. Once the payment is completed, the following customer will have privileges based on their tier.

Submit a Feedback (Customer)

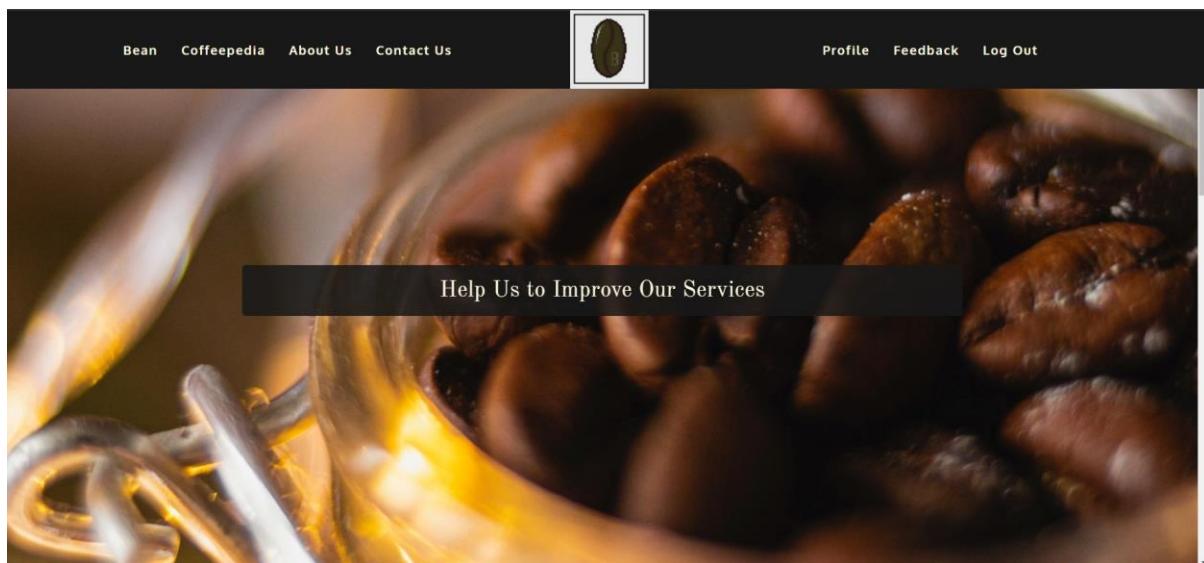


Figure 39: Submit feedback page (part 1)

A screenshot of a feedback form. The title 'FEEDBACK FORM' is centered at the top in a large, bold, white font. Below the title is a large, empty text area for input. A small, faint watermark-like text 'Tell us your opinion about us and give us some feedback about our services... Max: 432 words' is visible within this area. At the bottom of the form is a single, light-colored 'Submit' button.

Figure 40: Submit feedback page (part 2)

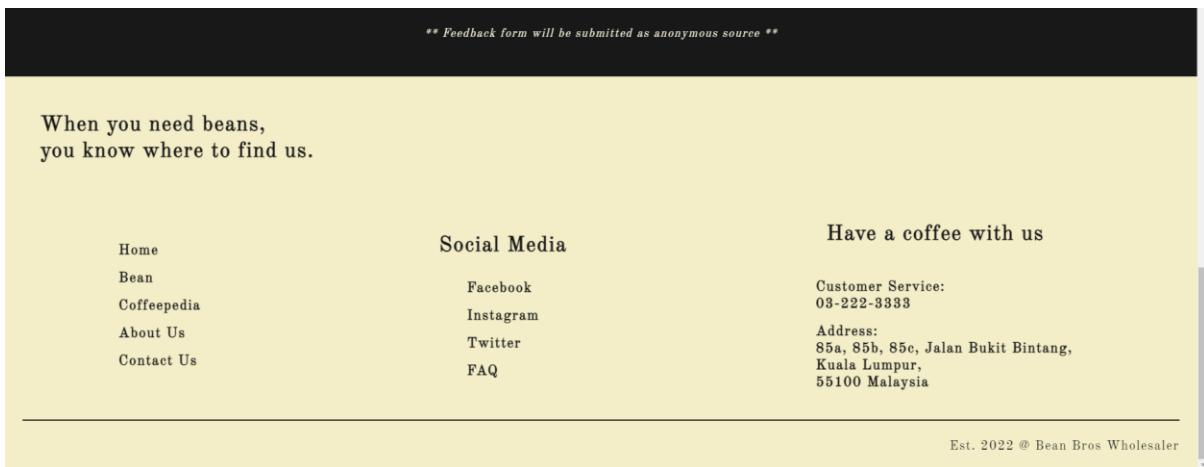


Figure 41: Submit feedback page (part 3)

In this page, customers are recommended to submit a feedback and tell us their user experience or suggest us with any changes or improvements for our website. Our admin will go through all the feedbacks and the feedback provided will be anonymous so customer will not be afraid to voice out if they face a horrible experience or rude customer experience.

Coffee Beans Needed (Customer)



Figure 42: Order coffee bean (part 1)



Figure 43: Order coffee bean (part 2)

When customer wants to order coffee bean, they can direct to coffee beans needed in profile page, select the coffee bean they prefer and insert the amount needed and click complete roasting. The following order will be in pending state, and it will be updated to completed once payment is made face-to-face. Note that the minimum (kilogram) of coffee purchase is 60kg which equals to one full coffee sack. Any amount less than 60kg will not be sold.

View Order History & invoice (Customer)

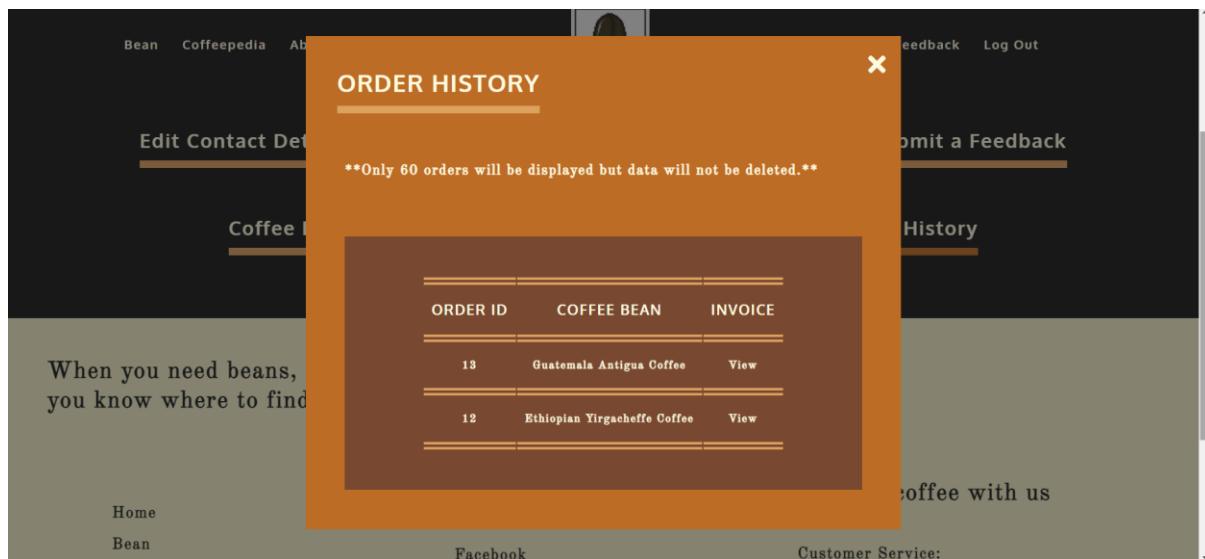


Figure 44: View order history and invoice (part 1)

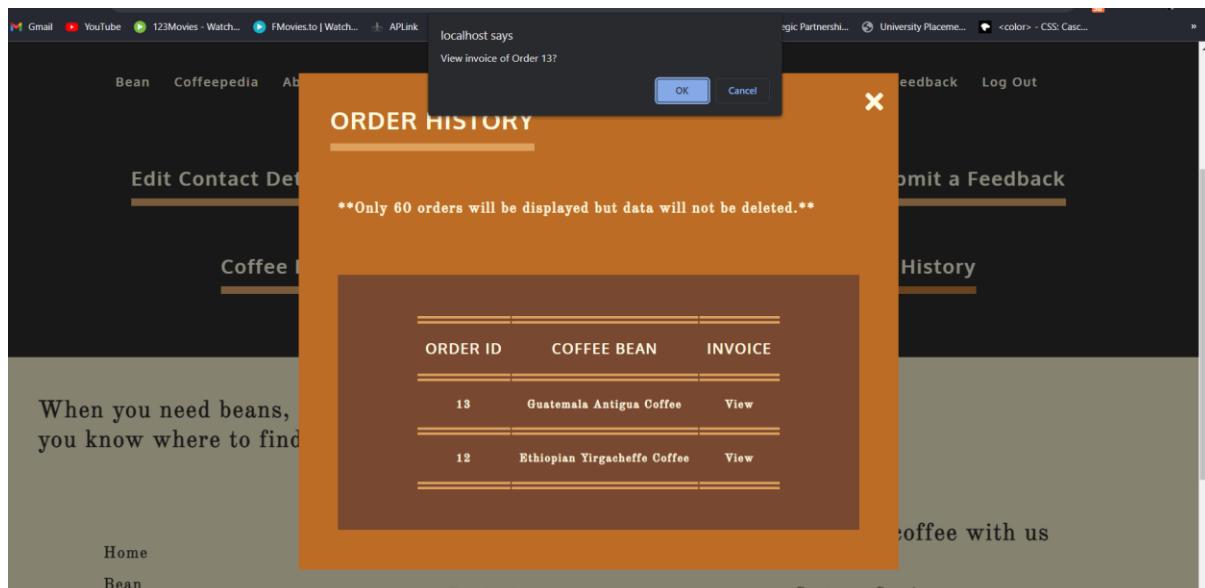


Figure 45: View order history and invoice (part 2)

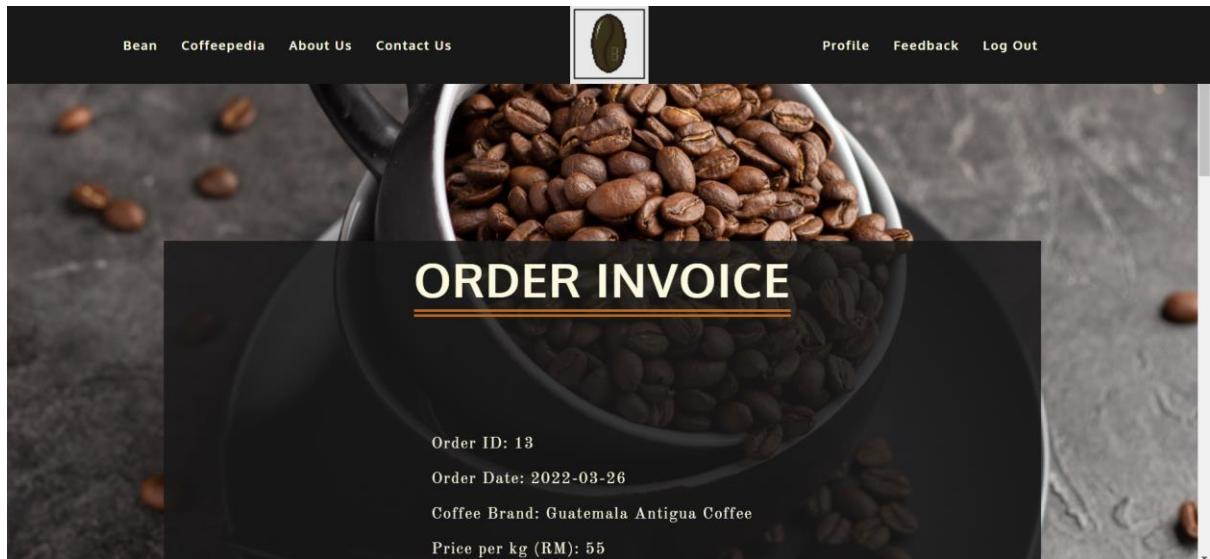


Figure 46: View order history and invoice (part 3)

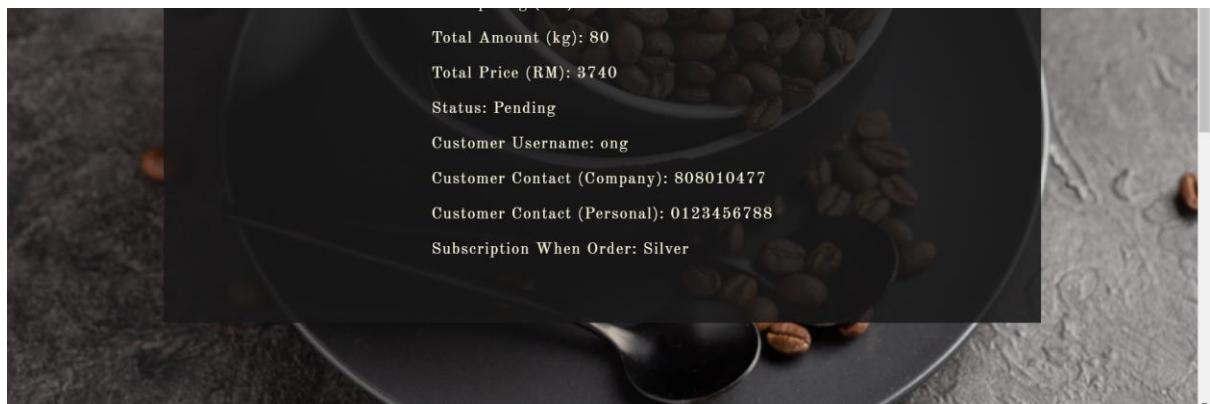


Figure 47: View order history and invoice (part 4)

After our customer ordered the coffee beans from us, they can check their order history and eventually view invoice. The order details will be specifically displayed once customer clicked view invoice.

Bean Page (Admin)



Figure 48: Admin bean page (part 1)



Figure 49: Admin bean page (part 2)

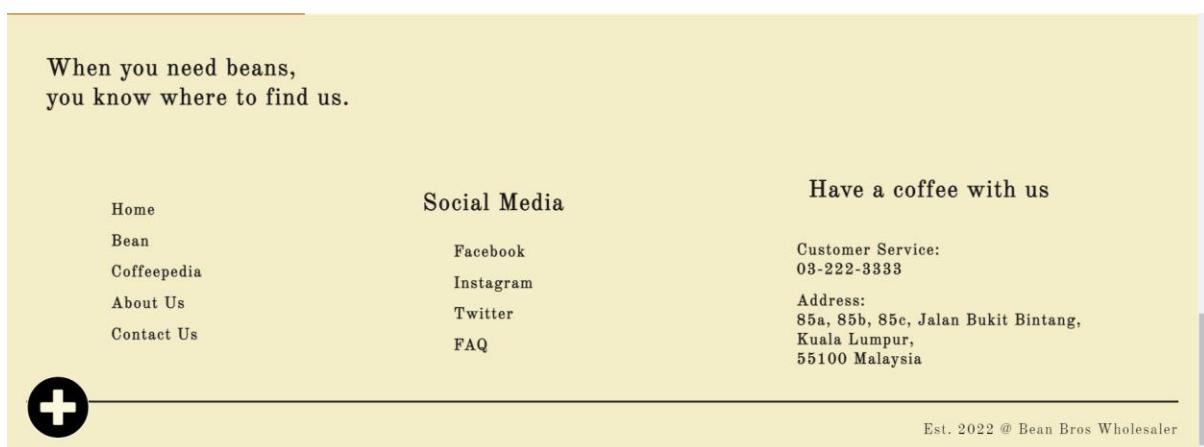


Figure 50: Admin bean page (part 3)

In admin's bean page, admin can perform several functions anytime. Admin can add new product and introduce them to our customers, edit coffee bean details and delete coffee bean. Besides, admin can utilize the search function to filter one product instead of going through the whole page to find a specific product.

Coffeepedia Page (Admin)

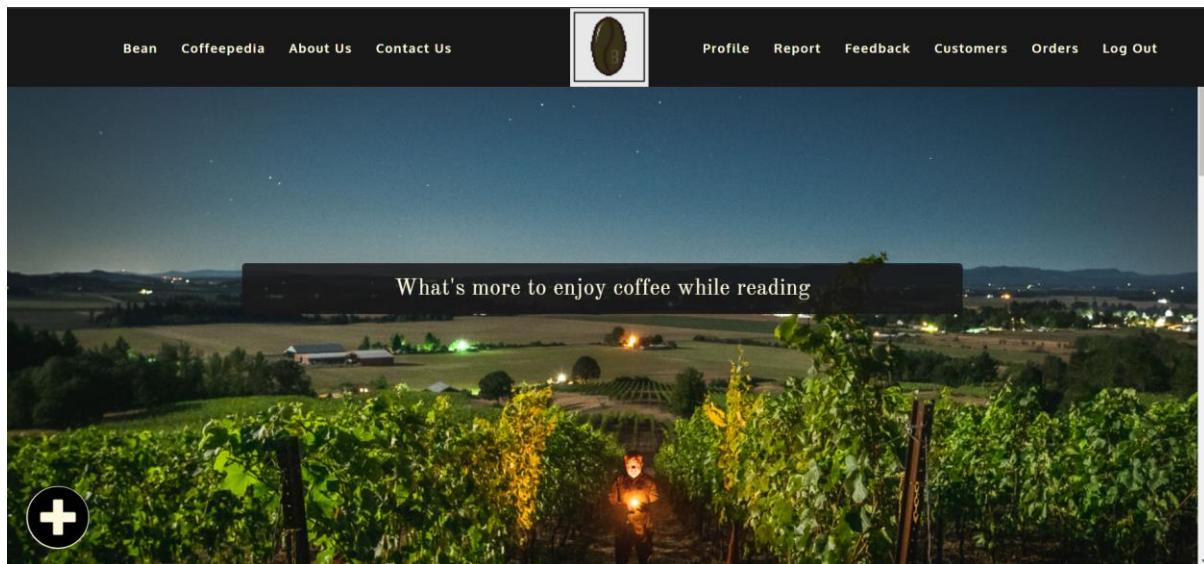


Figure 51: Admin coffeepedia page (part 1)

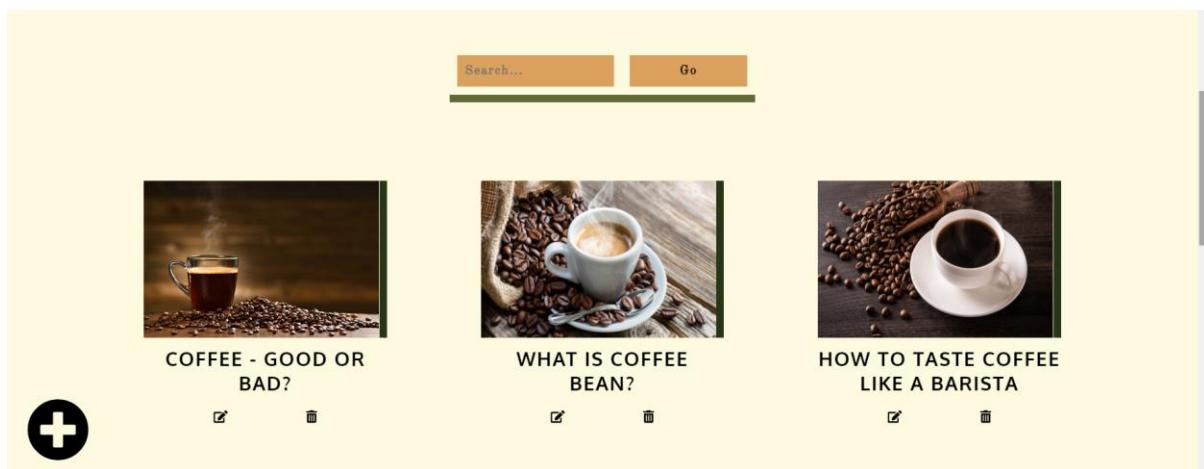


Figure 52: Admin coffeepedia page (part 2)

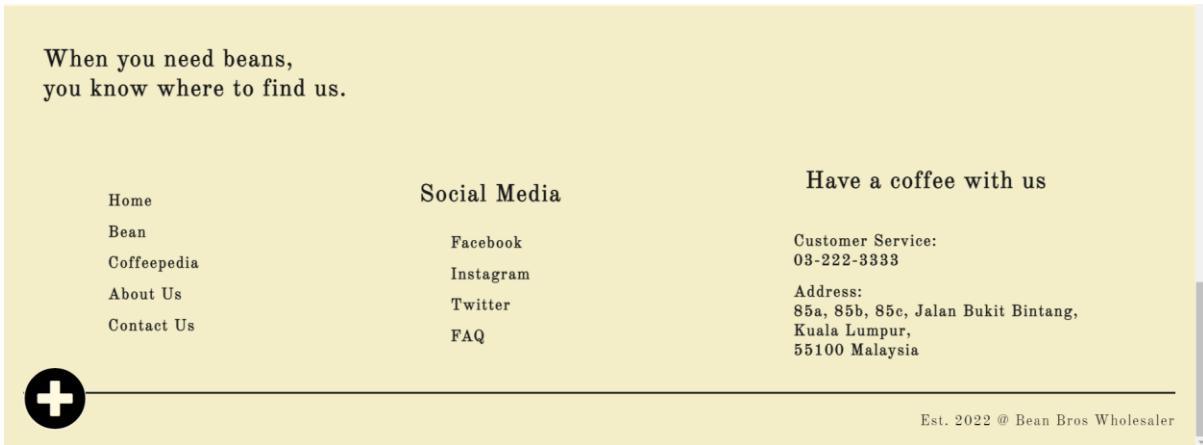


Figure 53: Admin coffeepedia page (part 3)

In admin's **coffeepedia page**, admin can perform several functions anytime. Admin can add new coffeepedia and introduce them to our customers, edit coffeepedia details and delete coffeepedia. Besides, admin can utilize the search function to filter one article instead of going through the whole page to find a specific article.

Add new coffee bean (Admin)

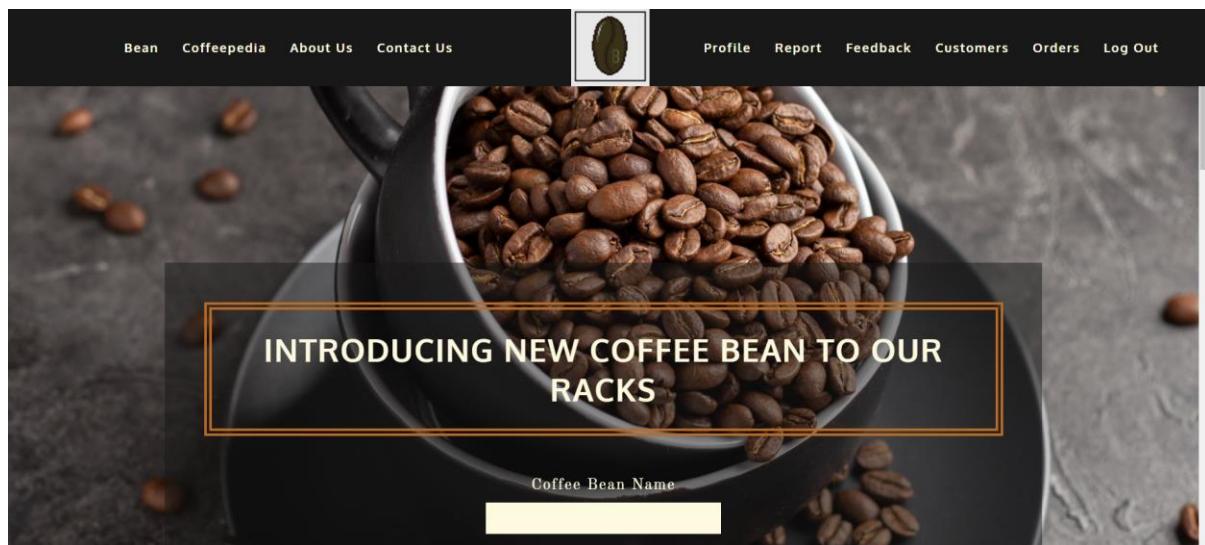


Figure 54 : Admin add new coffee bean (part 1)

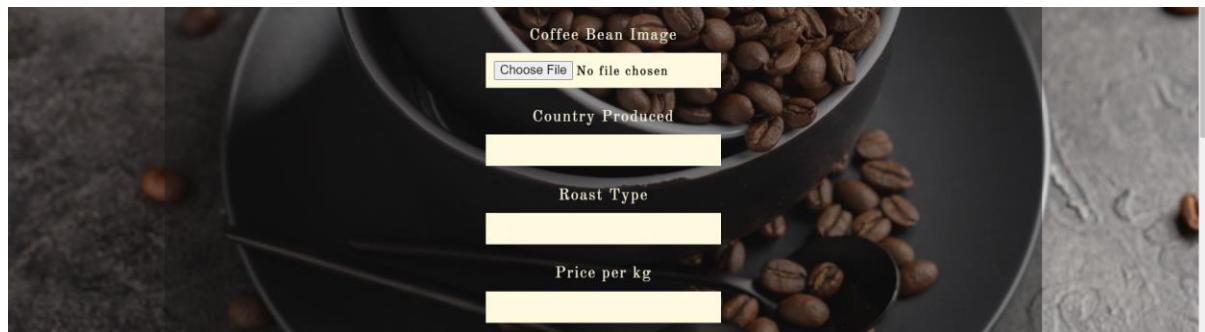


Figure 55 : Admin add new coffee bean (part 2)



Figure 56 : Admin add new coffee bean (part 3)

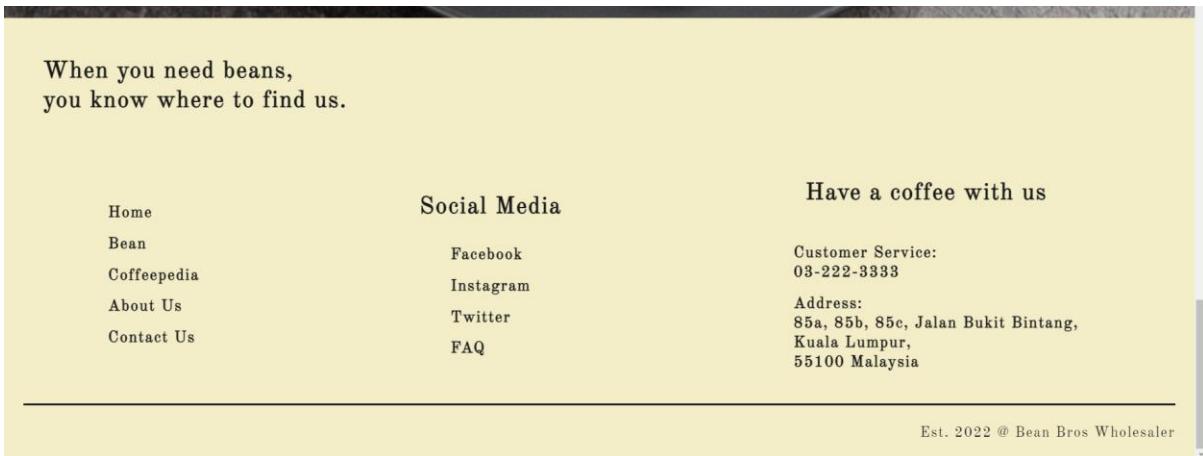


Figure 57 : Admin add new coffee bean (part 4)

In this page, admin can add new coffee bean to be displayed and up on the rack in our website. Admin will have to insert the coffee bean name, coffee bean image, country produced, roast type, price per kg and description. Once the “Beans Out!” button is clicked, a new coffee bean will be introduced on our website and up on the rack for order.

Edit coffee bean (Admin)

The screenshot shows a web-based admin interface for managing coffee beans. At the top, there's a navigation bar with links for Bean, Coffeepedia, About Us, Contact, Report, Feedback, Customers, Orders, and Log Out. A modal window titled "Edit Ethiopian Yirgacheffe Coffee details?" is open. Inside the modal, there's a search bar labeled "Search...", a "Find It" button, and a large central box containing the product details for "ETHIOPIAN YIRGACHEFFE COFFEE". The details include a placeholder text block, "Country: Southern Ethiopia", "Roast: Light-Medium Roast", and "Price per KG: 75". To the right of this box is a product image of a Starbucks Guatemala Antigua bag. Below the main box are two smaller images: one of a coffee bag and another of a coffee cup. On the far left, there's a sidebar with a search bar, a "Find It" button, and a large orange "Add" button with a plus sign.

Figure 58: Admin edit coffee bean (part 1)

This screenshot shows a different part of the admin interface. It features a large background image of coffee beans in a bowl. Overlaid on this image is a dark box with a gold border containing the text "REROASTING OLD COFFEE BEAN FROM OUR RACKS". Below this, there are input fields for "Coffee Bean Name" (containing "Ethiopian Yirgacheffe Coffee") and "Country Produced" (containing "Southern Ethiopia").

Figure 59: Admin edit coffee bean (part 2)

This screenshot shows the final part of the admin interface for editing coffee beans. It has a similar background image of coffee beans. Overlaid are several input fields: "Coffee Bean Image" (with a "Choose File" button and "No file chosen"), "Country Produced" (containing "Southern Ethiopia"), "Roast Type" (containing "Light-Medium Roast"), and "Price per kg" (containing "75").

Figure 60: Admin edit coffee bean (part 3)

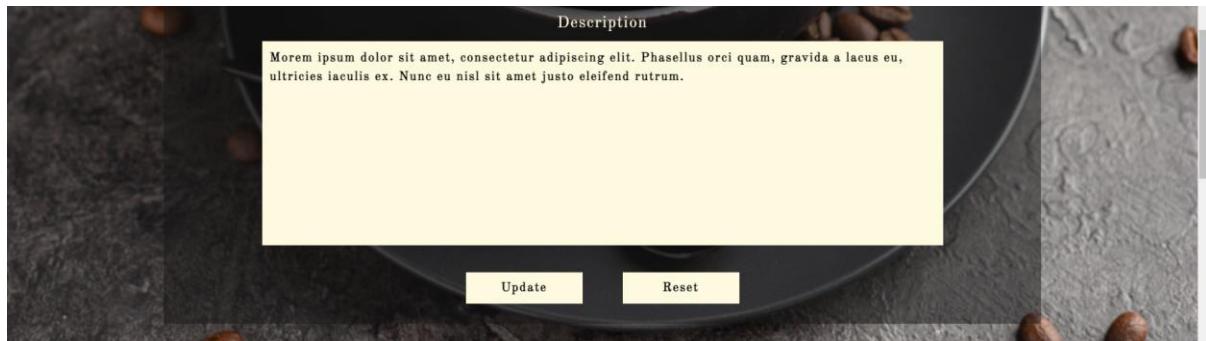


Figure 61: Admin edit coffee bean (part 4)

A screenshot of the same admin interface, but now showing the footer area. The footer features a yellow background with the text "When you need beans, you know where to find us." on the left. In the center, there is a "Social Media" section with links to Facebook, Instagram, Twitter, and FAQ. On the right, there is a "Have a coffee with us" section with contact information: "Customer Service: 03-222-3333" and "Address: 85a, 85b, 85c, Jalan Bukit Bintang, Kuala Lumpur, 55100 Malaysia". At the very bottom of the page, a thin horizontal line separates the footer from the rest of the page, with the text "Est. 2022 @ Bean Bros Wholesaler" visible.

Figure 62: Admin edit coffee bean (part 5)

In this page, admin can edit coffee bean to be displayed and up on the rack in our website. Admin can edit the coffee bean name, coffee bean image, country produced, roast type, price per kg and description. Once the “Update” button is clicked, the previous coffee bean details will be edited and displayed .

Delete Coffee Bean

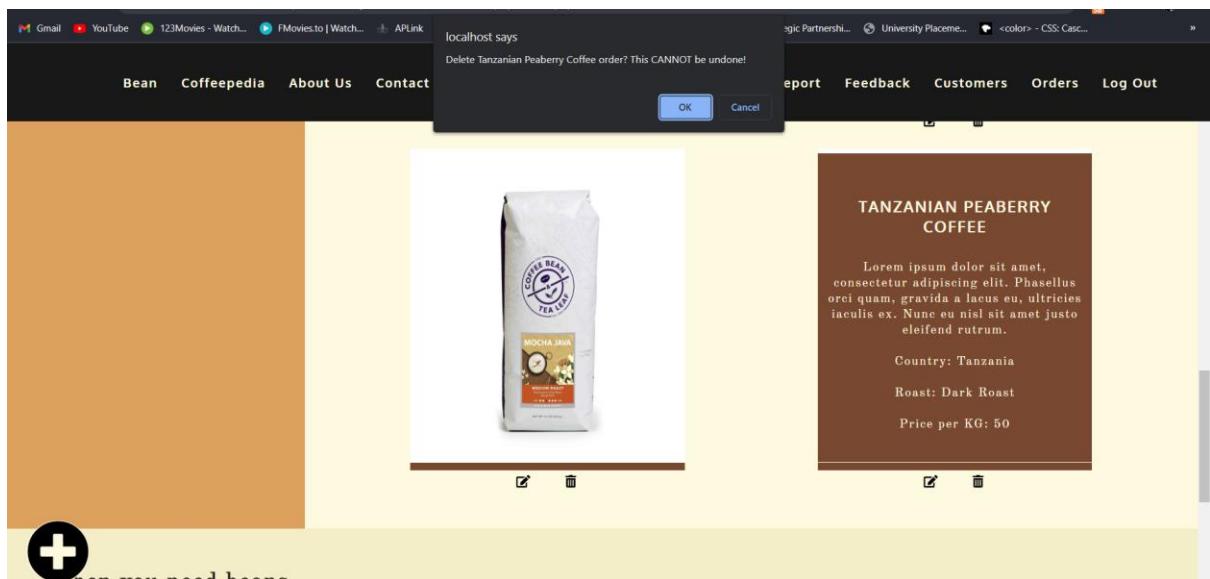


Figure 63: Admin delete coffee bean

As for deleting coffee bean, admin has to be sure that the following product is no longer available and no longer to be sold on our wholesale website. Then, admin can select the following coffee bean to delete and click “Ok”. Once the button is clicked, the selected coffee bean will be deleted along with the bean’s details.

Add new coffeepedia (Admin)



Figure 64: Admin add new coffeepedia (part 1)

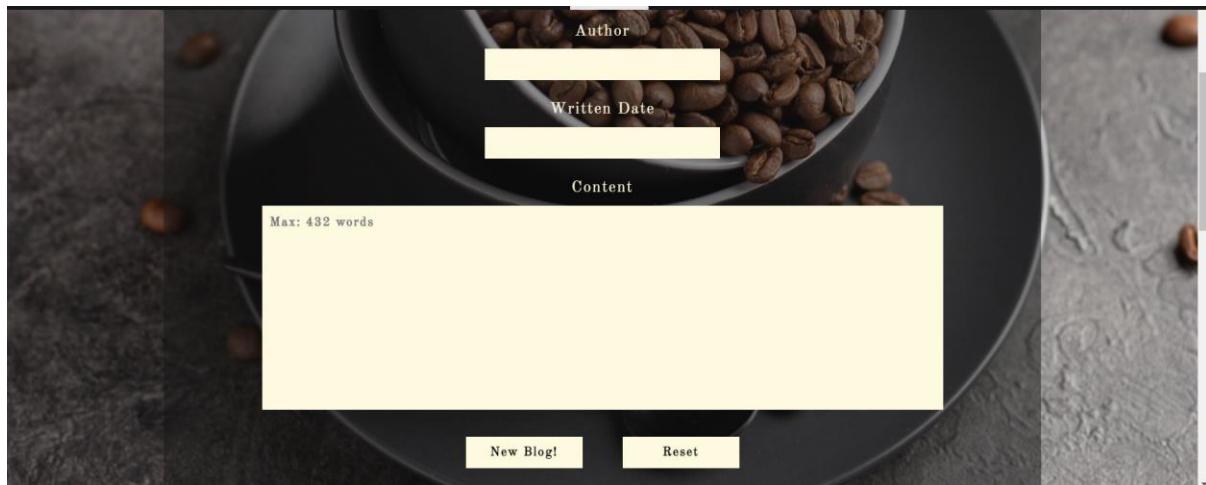


Figure 65: Admin add new coffeeepedia (part 2)



Figure 66: Admin add new coffeeepedia (part 3)

In this page, admin can add new article to be displayed and up on the coffeeepedia page in our website. Admin will have to insert the article title, author, written date, and content . Once the “New Blog!” button is clicked, a new article will be published on our website and up on the page for customers to read.

Edit coffeeepedia (Admin)

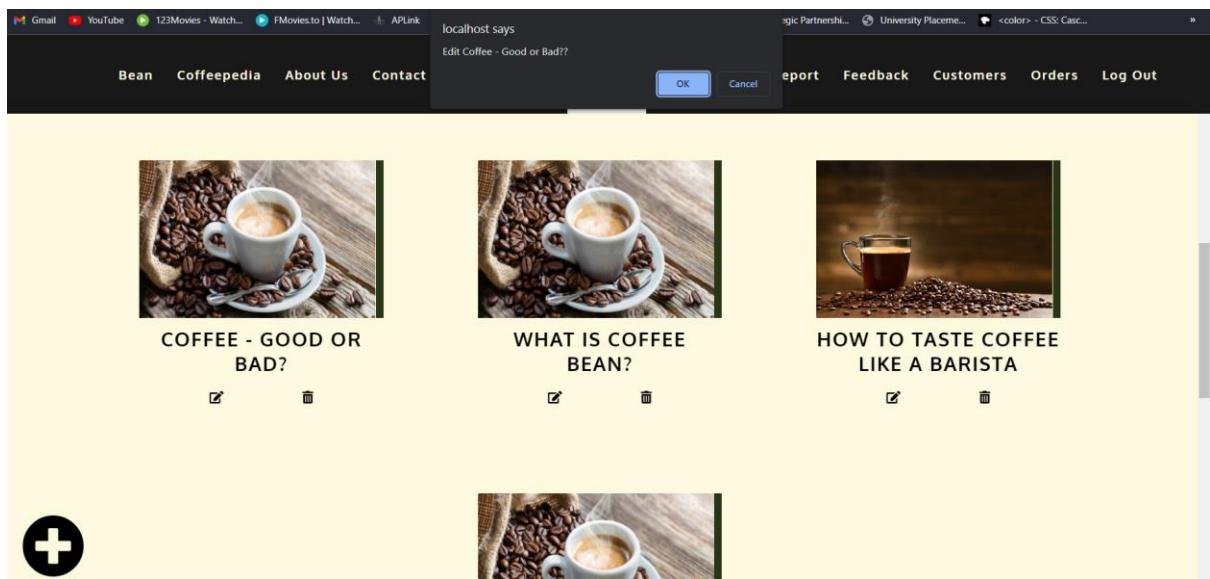


Figure 67: Admin edit coffeeepedia (part 1)



Figure 68: Admin edit coffeeepedia (part 2)

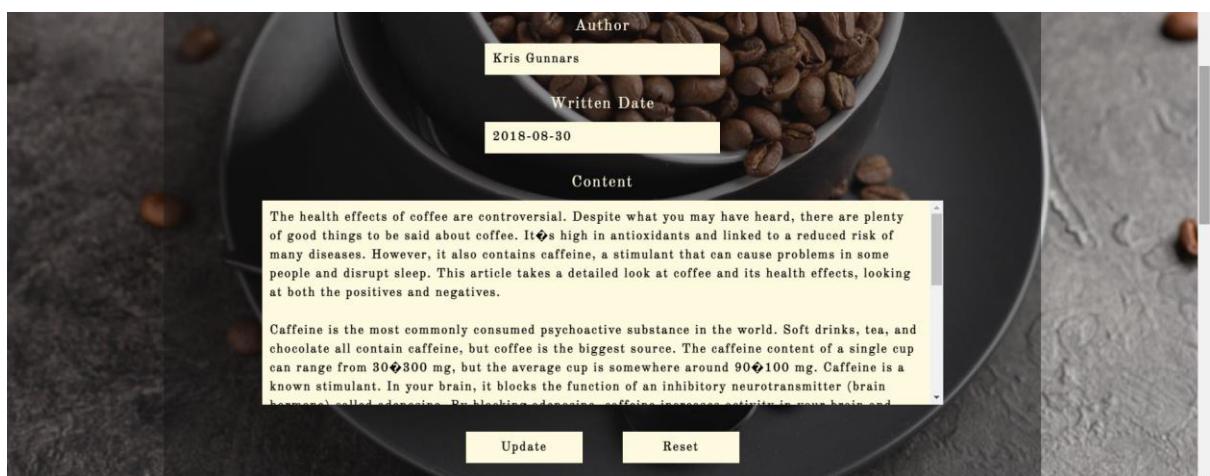


Figure 69: Admin edit coffeeepedia (part 3)

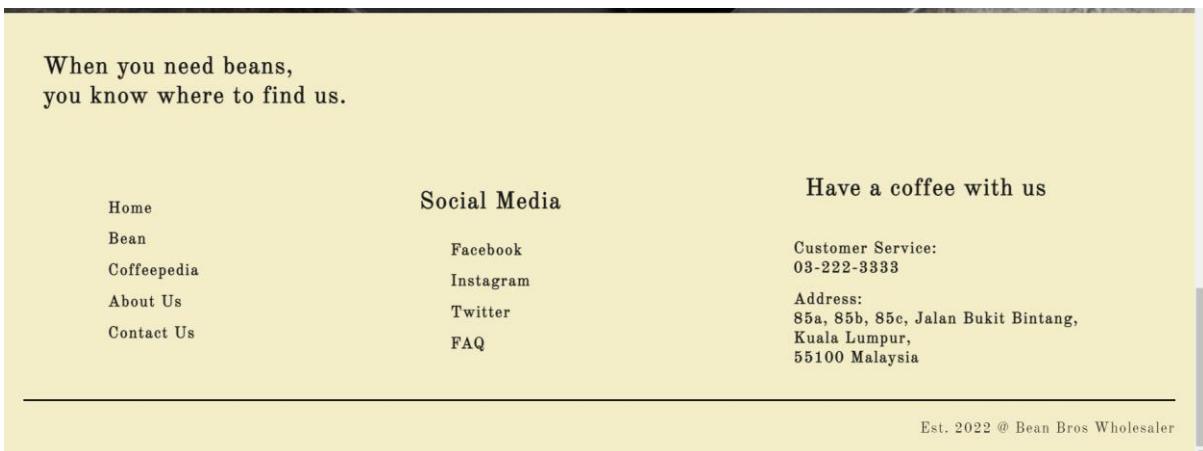


Figure 70: Admin edit coffeepedia (part 4)

In this page, admin can edit article to be displayed and up on the coffeepedia page on our website. Admin can edit the article title, name of author, written date, and content . Once the “Update” button is clicked, the previous article details will be edited and displayed .

Delete Coffeepedia (Admin)

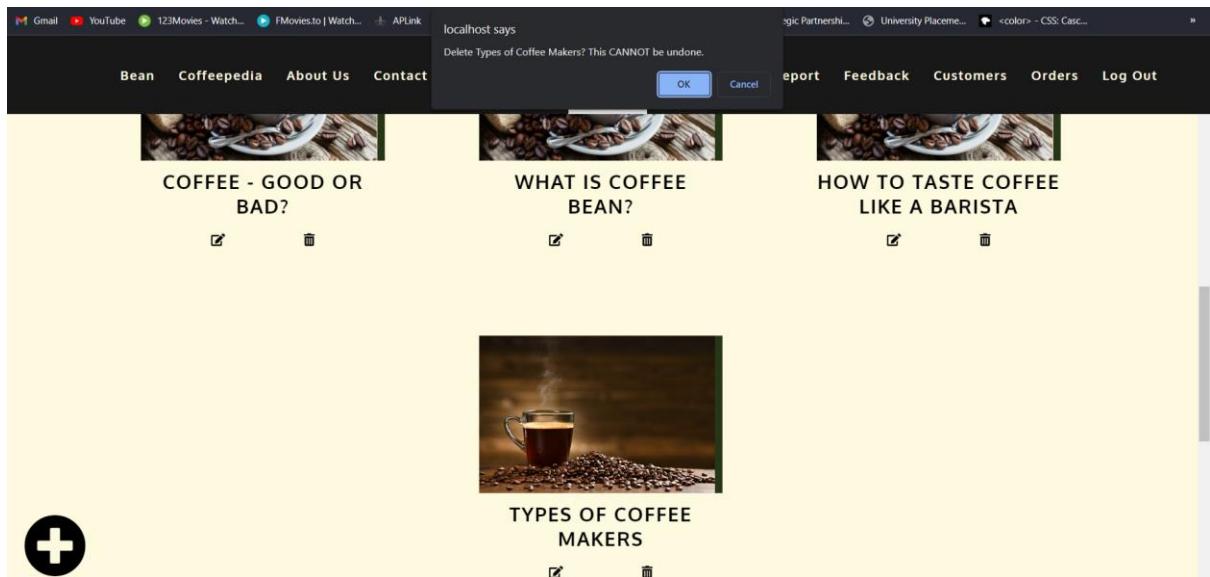


Figure 71: Admin delete article

As for deleting coffeepedia article, admin has to be sure that the following article is no longer needed and no longer allowed to be published on our page. Then, admin can select the following article to delete and click “Ok”. Once the button is clicked, the selected article will be deleted along with the article’s details.

Admin Profile

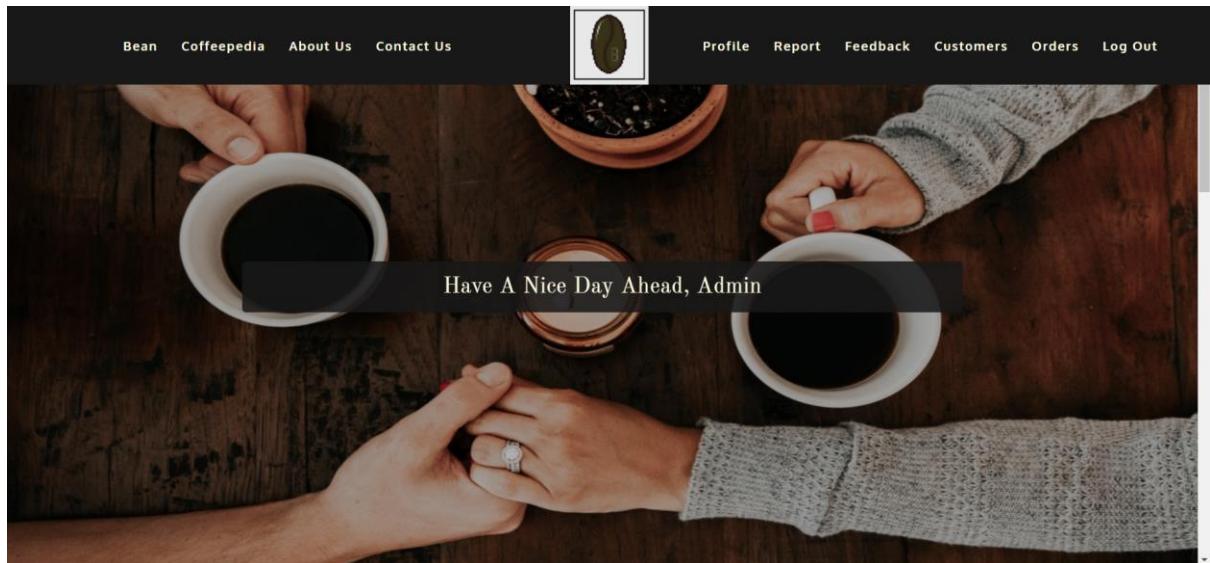


Figure 72: Admin profile (part 1)

ADMIN DETAILS

Username: Admin

Email: beanbros2022@gmail.com

Password: *#*#*#*

Figure 73: Admin profile (part 2)

[View Feedback](#)

[Manage Customer](#)

[Manage Order](#)

[Generate Monthly Report](#)

[Add New Coffee Bean](#)

Figure 74: Admin profile (part 3)

When you need beans,
you know where to find us.

[Home](#)

[Bean](#)

[Coffeepedia](#)

[About Us](#)

[Contact Us](#)

Social Media

[Facebook](#)

[Instagram](#)

[Twitter](#)

[FAQ](#)

Have a coffee with us

Customer Service:
03-222-3333

Address:
85a, 85b, 85c, Jalan Bukit Bintang,
Kuala Lumpur,
55100 Malaysia

Est. 2022 @ Bean Bros Wholesaler

Figure 75: Admin profile (part 4)

In admin profile page, admin can check their **account details**, and perform some **functions such as view feedback, manage customer details, manage order details, generate monthly report and add new coffee bean**.

View Feedback (Admin)

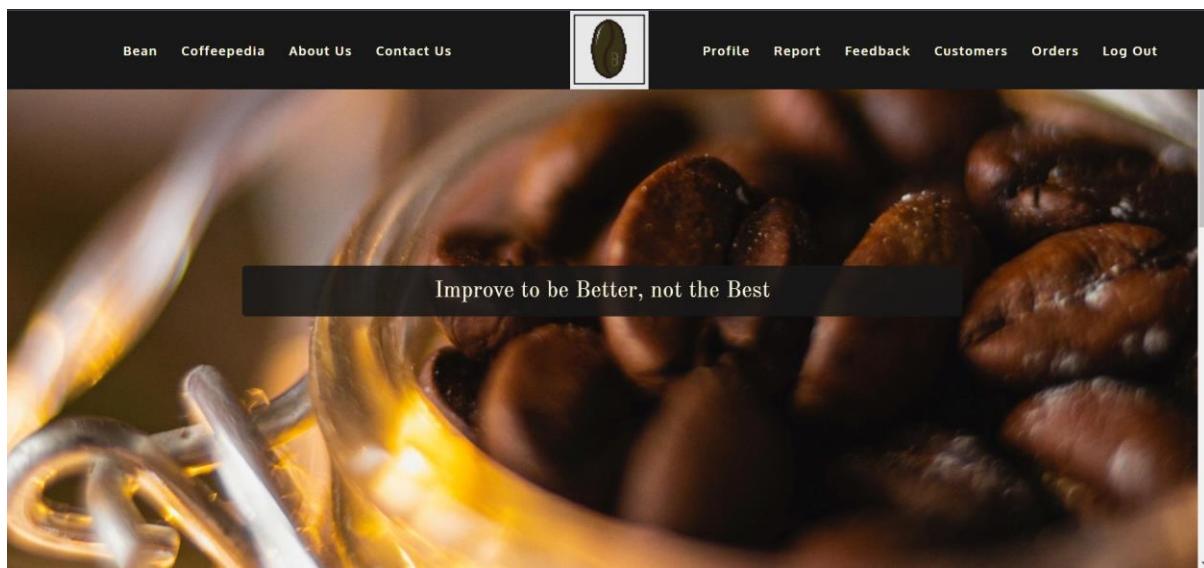


Figure 76: Admin view feedback (part 1)

A screenshot of the "FEEDBACK LIST" section. On the left, there is a form for selecting a date, with fields for "Select Date" and "YYYY-MM-DD" (containing "2022-04-03") and a "Submit" button. The main list area shows a single item with the date "2022-04-03" and a placeholder text block: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat."

Figure 77: Admin view feedback (part 2)

A screenshot of the footer section. It includes a slogan "When you need beans, you know where to find us.", links to "Home", "Bean", "Coffeepedia", "About Us", and "Contact Us", a "Social Media" section with links to Facebook, Instagram, Twitter, and FAQ, and a "Have a coffee with us" section with customer service information ("Customer Service: 03-222-3333") and address ("Address: 85a, 85b, 85c, Jalan Bukit Bintang, Kuala Lumpur, 55100 Malaysia"). The footer also contains the text "Est. 2022 @ Bean Bros Wholesaler".

Figure 78: Admin view feedback (part 3)

In view feedback page, admin can view the feedback submitted by our customers so that our website can have improvement and constant update to make our website more successful than ever. Besides, admin can utilize the date search function, to specifically filter the important feedback with ease.

Manage customer (Admin)

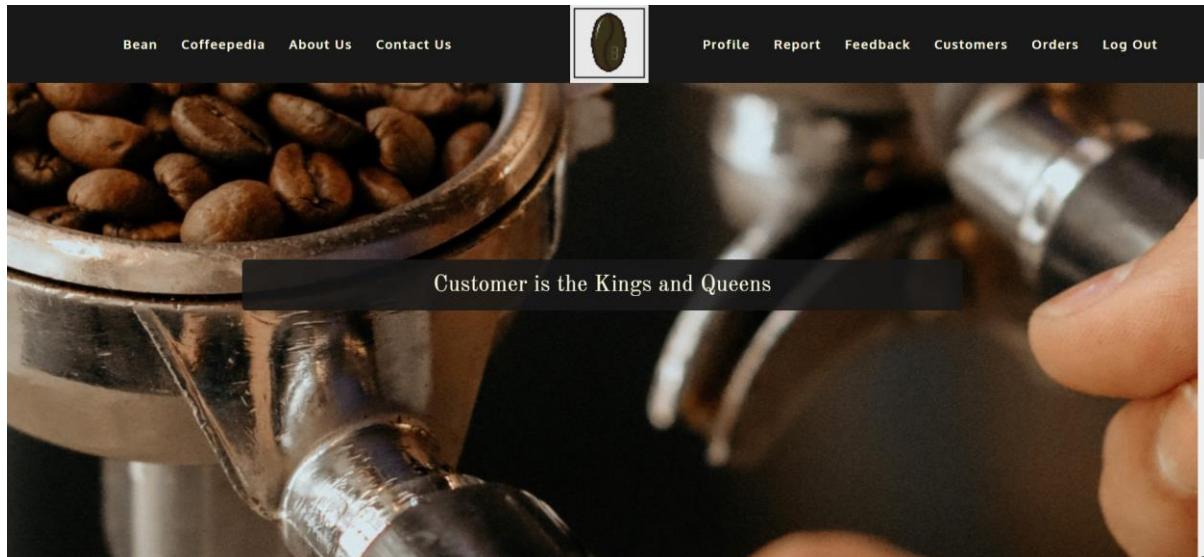


Figure 79: Admin manage customer (part 1)

A screenshot of a web application interface titled "CUSTOMER LIST". On the left, there is a dark sidebar with a "Search" section containing a text input field labeled "Name ..." and a "Submit" button. The main content area has a light yellow background. It displays a customer profile with the following information: Username: Night, Email: xianzyip8@gmail.com, Contact Number (Personal): 0128981055, Contact Number (Work): 053223511, Password: *#*#*#*#, and Subscription Tier: Gold. To the right of this information is a dark button with a trash icon and the text "ERASE DATA".

Figure 80: Admin manage customer (part 2)



Figure 81: Admin manage customer (part 3)

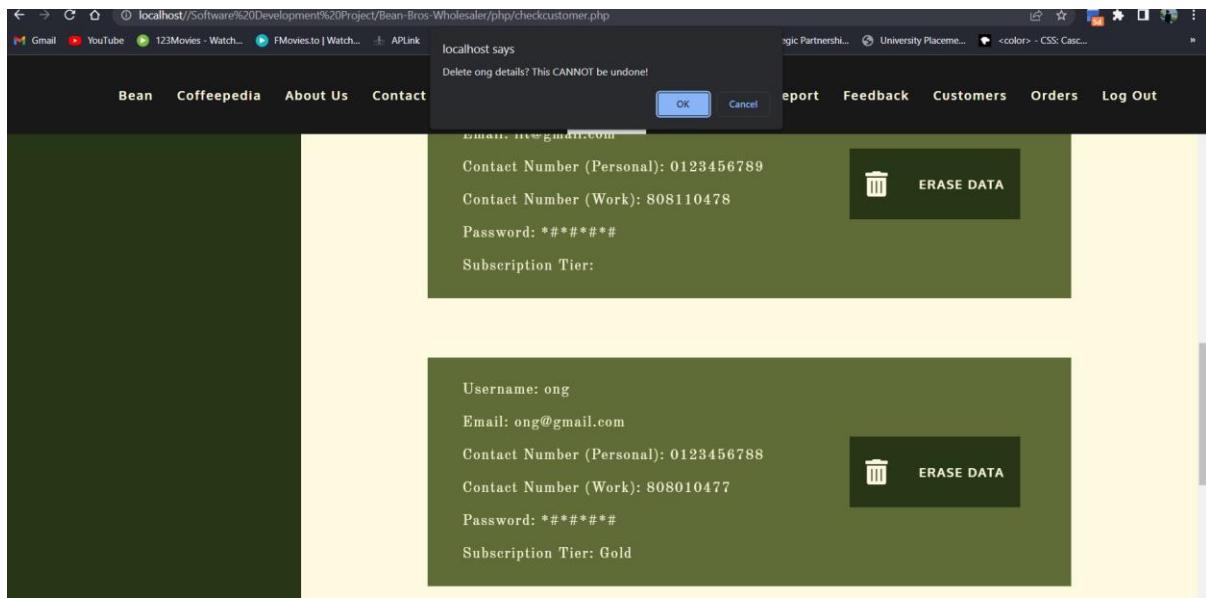


Figure 82: Admin manage customer (part 4)

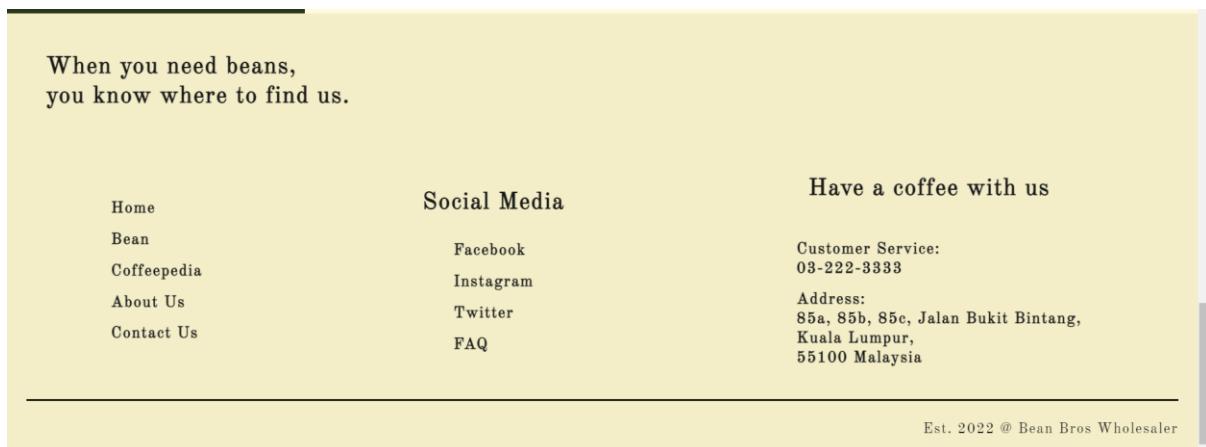


Figure 83: Admin manage customer (part 5)

In manage customer page, admin will have record of customer account details except for password. Besides, admin can utilize the name search function located at the left to search for a specific customer to view the details. Moreover, admin can delete customer details if and

only if the following customer requested to delete his/her account due to specific reasons. Note that, in figure 82, once the “Ok” button is clicked, the following action cannot be undone.

Manage Order (Admin)

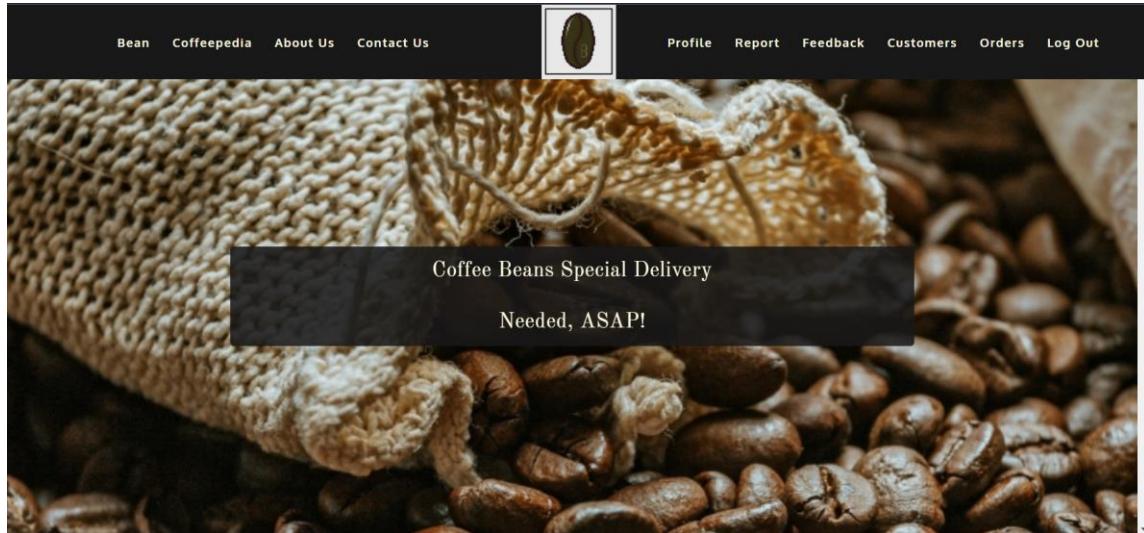


Figure 84: Admin manage order (part 1)

A screenshot of the "ORDER LIST" section. On the left, there is a search bar with "Customer Name ..." and a "Submit" button. The main area displays an order entry with the following details:

Order ID: 1
Order Date: 2022-03-19
Coffee Bean: Tanzanian Peaberry Coffee
Amount (kg): 120
Total (RM): 6000
Customer Username: Night
Email: xianzyip8@gmail.com
Contact Number (Personal): 0128981055
Contact Number (Work): 053223511
Status: Completed

With "CHANGE STATUS" and "DELETE ORDER" buttons on the right.

Figure 85: Admin manage order (part 2)

A screenshot of the "ORDER LIST" section showing another order entry with the following details:

Order ID: 3
Order Date: 2022-03-22
Coffee Bean: Kenya AA Coffee
Amount (kg): 80
Total (RM): 5600
Customer Username: Night
Email: xianzyip8@gmail.com
Contact Number (Personal): 0128981055
Contact Number (Work): 053223511
Status: Pending

With "CHANGE STATUS" and "DELETE ORDER" buttons on the right.

Figure 86: Admin manage order (part 3)



Figure 87: Admin manage order (part 4)

In this manage order page, admin can perform several functions such as change order status, search for specific order, and delete order. Admin can change the order status once the following customer has made his/her payment face-to-face for their purchase. As for the search function located at the left of the page, admin can utilize it to search for specific customer and perform required actions. Lastly, admin can delete the order if and only if the following customer requested to do otherwise, admin has no rights to simply delete an order since the following action cannot be undone.

14. Report Design

Generate Monthly Report

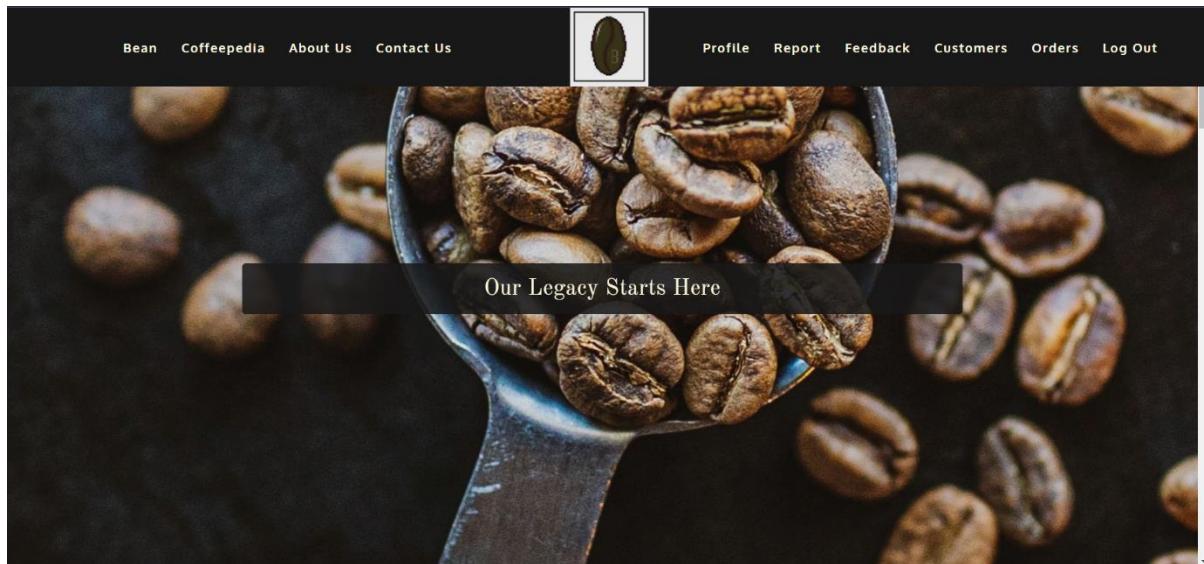


Figure 88: Monthly Report Page (part 1)

BEAN BROS MONTHLY REPORT GENERATOR

Select Month | January | Generate

A screenshot of a web application titled "BEAN BROS MONTHLY REPORT GENERATOR". The interface has a yellow header bar. Below it, there's a form with a "Select Month" dropdown set to "January" and a "Generate" button. The main content area has a black background with a white "Bean Bros" logo icon and the text "BEAN BROS MONTHLY REPORT".

Figure 89 : Monthly Report Page (part 2)

A screenshot of a monthly report page with a black background and yellow borders on the left and right. It displays two sections: "Most Profitable Coffee Bean" featuring Tanzanian Peaberry Coffee with a profit of 23500, and "Most Popular Coffee Bean" also featuring Tanzanian Peaberry Coffee with 4 orders. Each section includes a small image of the coffee bag and some beans.

Figure 90: Monthly Report Page (part 3)

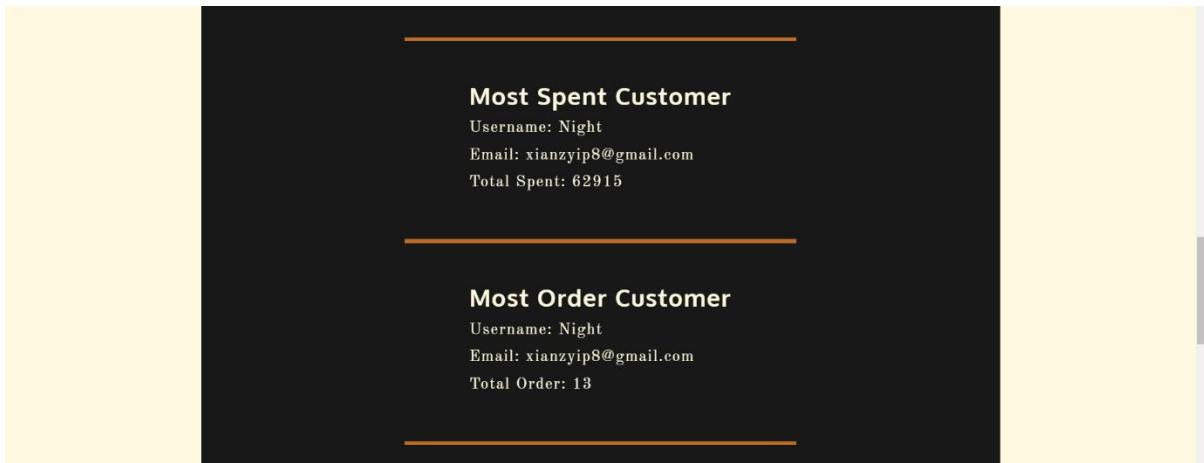


Figure 91 : Monthly Report Page (part 4)

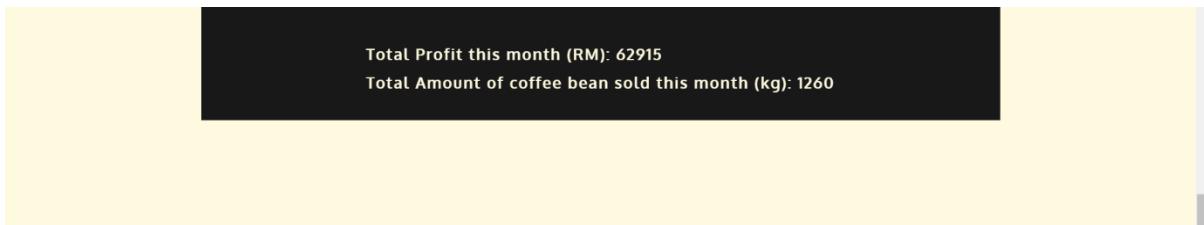


Figure 92: Monthly Report Page (part 5)

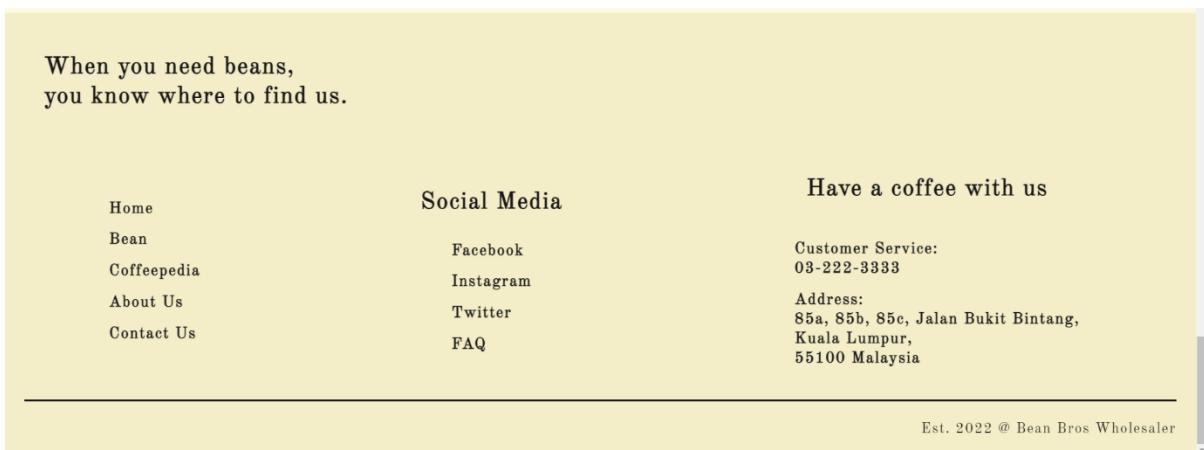


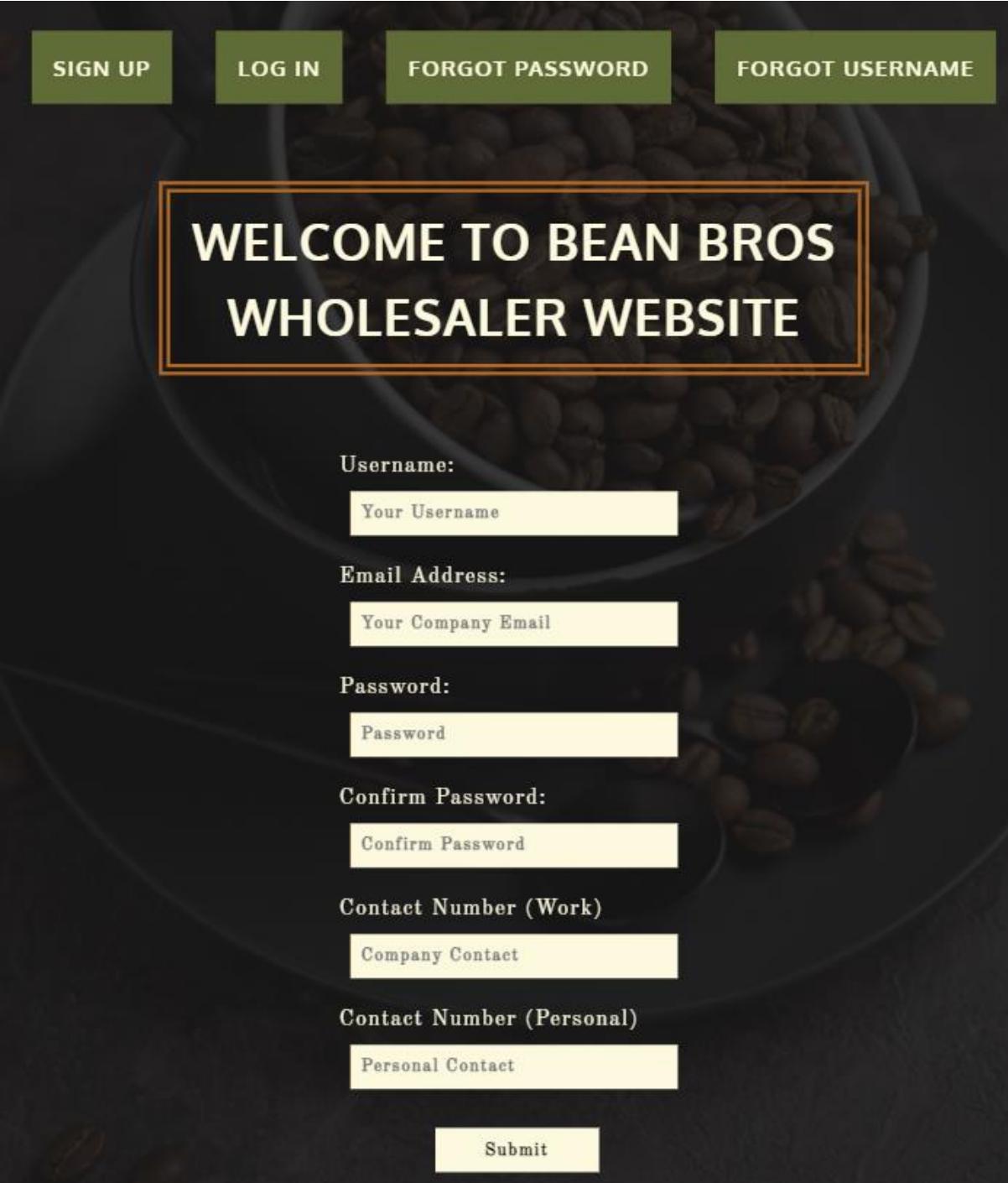
Figure 93 : Monthly Report Page (part 6)

This is the report page that is designed for the use of admin only. The monthly report page will allow admin to select preferred month to generate a report. For example, from figure 2 to figure 5 it will display the most profitable coffee bean, most popular coffee bean, most spent customer, and most ordered customer for the selected month to ease the admin job. In figure 6, it is the total profit of the selected month and total amount of coffee bean sold in the selected month in kg will be displayed for the admin to refer. Moreover, the details in the report are all taken from the database so that no one could do any editing or change any figure of the profits in the report.

15. User Manual

Customer Side

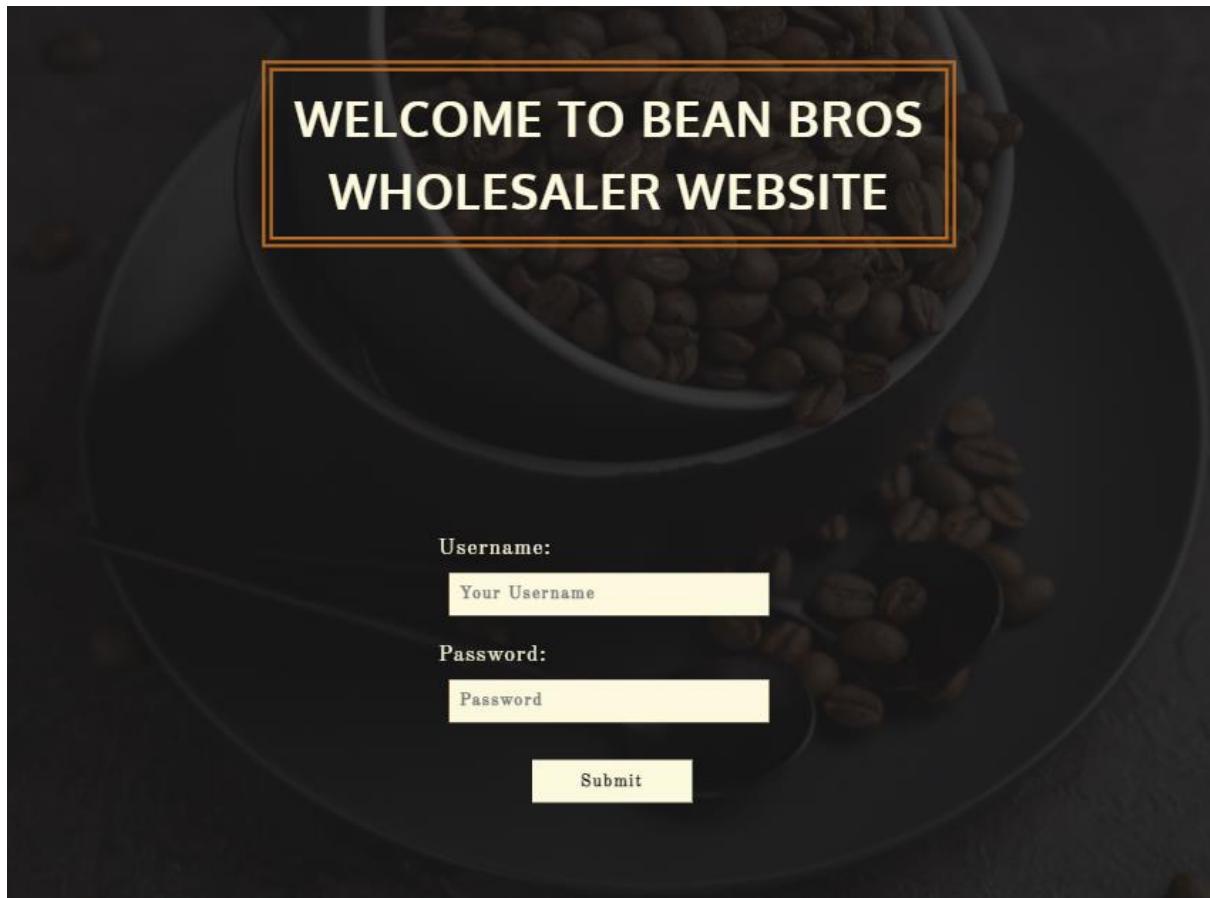
Login and Signup



The image shows the sign-up page for the Bean Bros Wholesaler website. The background features a dark, artistic photograph of coffee beans in a bowl. At the top, there are four green buttons: "SIGN UP", "LOG IN", "FORGOT PASSWORD", and "FORGOT USERNAME". Below these, a large orange-bordered box contains the text "WELCOME TO BEAN BROS WHOLESALER WEBSITE". The form itself consists of several input fields and labels:

- Username:**
- Email Address:**
- Password:**
- Confirm Password:**
- Contact Number (Work)**:
- Contact Number (Personal)**:
- Submit**: A yellow button at the bottom.

The image shown above is the sign up page for the Web page. Users are required to sign up and login in order to access then website. After all the information is keyed in, press the submit button. After that, you will need to press the Login button to proceed to the Login page.



This is the Login page. The Login page will require you to enter your username and your password that you've entered to register your account. After that, press the submit button. When Authentication is successful, you will be redirected to the Homepage of the Bean Bros Website.

Navigation Bar



This is the navigation bar. The navigation bar provides users ease of direction when browsing through the website. Firstly, When you press on Bean, you will be redirected to the Bean Page. Second, when you press on Coffeepedia, you will be redirected to the Coffeepedia page. Third, when you press on About Us, you will be directed to the About Us page. Fourth, the Bean Logo at the middle will redirect you to the Homepage when pressed. Fifth, when you press on Profile, you will be redirected to the Profile page. Sixth, When you press on Feedback, you will be redirected to the Feedback page. Lastly, pressing the Log Out button will log you out of the website.

Home Page

PREMIUM SELECTION



FRESH ARRIVAL



This is the Home page. The home page will show you the latest information of what we will offer, from premium selection to fresh arrival. When scrolled further down,

MEMBERSHIP



SILVER

RM39.90/month

Special and unique monthly gifts

Notify for exclusive promotions via newsletter

15% off for total coffee bean purchases



GOLD

RM79.90/month

Prioritized delivery

Special and unique monthly gifts

Notify for exclusive promotions via newsletter

25% off for total coffee bean purchases



PLATINUM

RM159.90/month

Special access to VIP room

Prioritized delivery

Special and unique monthly gifts

Notify for exclusive promotions via newsletter

40% off for total coffee purchases

You will be greeted with the membership information. The membership information will inform you about the various benefits of joining the membership.

FOLLOW US


FACEBOOK


INSTAGRAM


TWITTER

OUR FARM AND FACTORY



Lastly, this part here will provide you with links to our social media sites such as Instagram, Facebook, and Twitter. A map will also be provided to show you where our farm and afctory is located at.

Bean Page

Find your one true coffee bean

Search...

Find It

ETHIOPIAN YIRGACHEFFE COFFEE

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus orci quam, gravida a lacus eu, ultricies iaculis ex. Nunc eu nisl sit amet justo eleifend rutrum.

Country: Southern Ethiopia

Roast: Light-Medium Roast

Price per KG: 75

GUATEMALA
Antigua

This is the Bean page, the bean page will allow you to view the coffee beans that we will offer. By clicking on the beans, a pop up will slide up to show necessary information to you. Besides that, a search function will also be added to the left of the bean page. The search function will allow you to search for the beans you are interested in without the hassle of scrolling down the website.

Coffeepedia Page



TEST3



TEST2



TEST4



TEST5



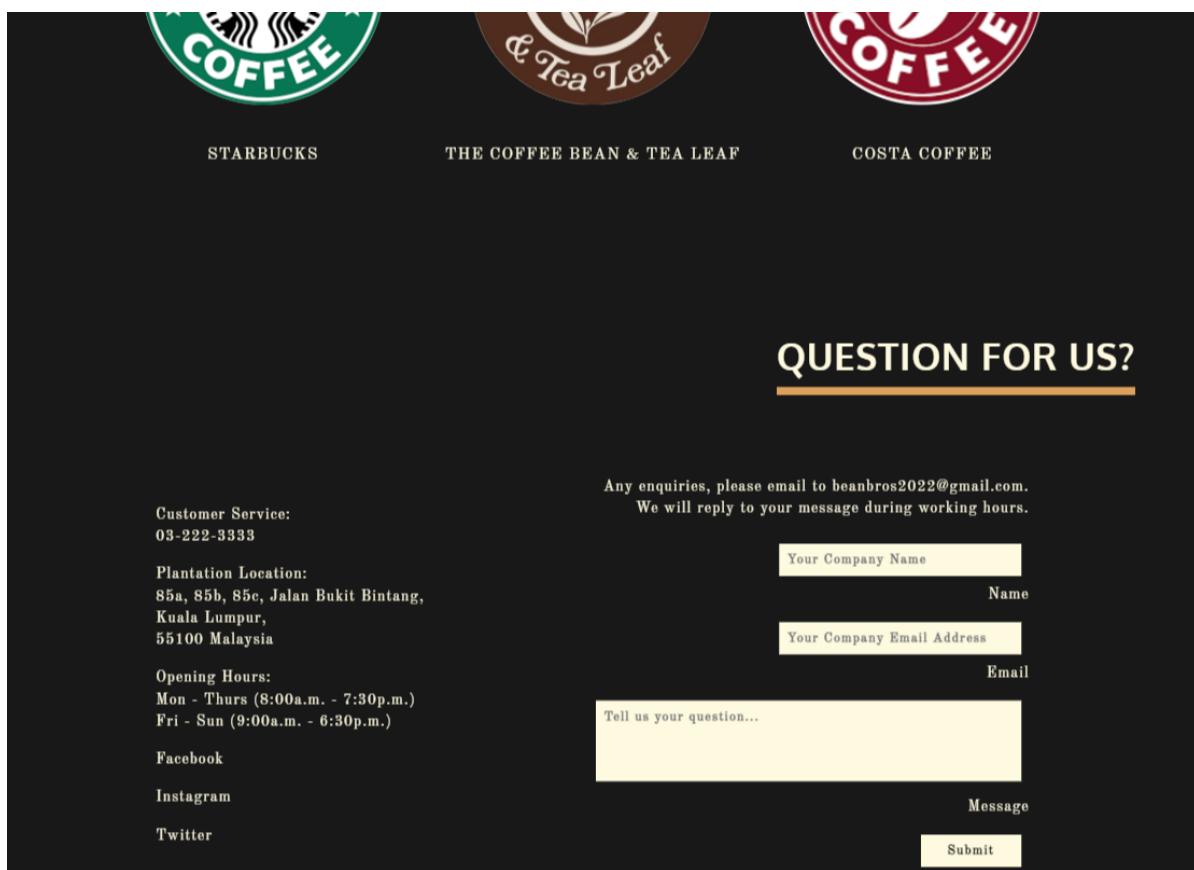
TEST6



TEST7

This is the Coffeepedia Page, the coffeepedia page will allow you to view articles that are written by our admins of the website. Similar to the bean page, the coffeepedia page will expand when the admins add more articles and blog to this web page. When you press on one of the blogs, it will redirect you to the corresponding article. A search function is also added to help you search for blogs that you are interested in.

Contact Us Page



This is the Contact Us page. If you're interested, you can fill in the form as seen above to inquire about any doubts or thoughts you have.

Profile Page

The screenshot shows a profile page with a dark background. At the top, there is a small thumbnail image of a person. Below it, the section title "PERSONAL DETAILS" is displayed in white capital letters. Underneath this, several user details are listed in white text:

- Username: Marcus
- Email: marcusongjr@gmail.com
- Contact Number (Personal): 0193579163
- Contact Number (Work): 019357916
- Password: *#*#*#*
- Subscription Tier:

At the bottom of the page, there are five interactive buttons with orange horizontal bars underneath them:

- Edit Contact Details
- Manage Subscription
- Submit a Feedback
- Coffee Beans Needed
- View Order History

This is the Profile page. The profile page will allow you to change your personal details such as contact details, coffee beans, subscription, order history. You can also submit a feedback to help us make our website better by providing us with suggestions.

Feedback Page

The screenshot shows a feedback form page with a dark background. The main title "FEEDBACK FORM" is centered at the top in large, bold, white capital letters. Below the title is a large input area with a light beige background, containing the placeholder text "Tell us your opinion about us and give us some feedback about our services... Max: 432 words". At the bottom of this input area is a "Submit" button. At the very bottom of the page, in a smaller white font, is the note "## Feedback form will be submitted as anonymous source ##".

This is the Feedback page. The feedback page will allow you to help us continue improving our website through suggestions. Once you are done, press the submit button and we will review your feedback.

Admin Side

Navigation Bar



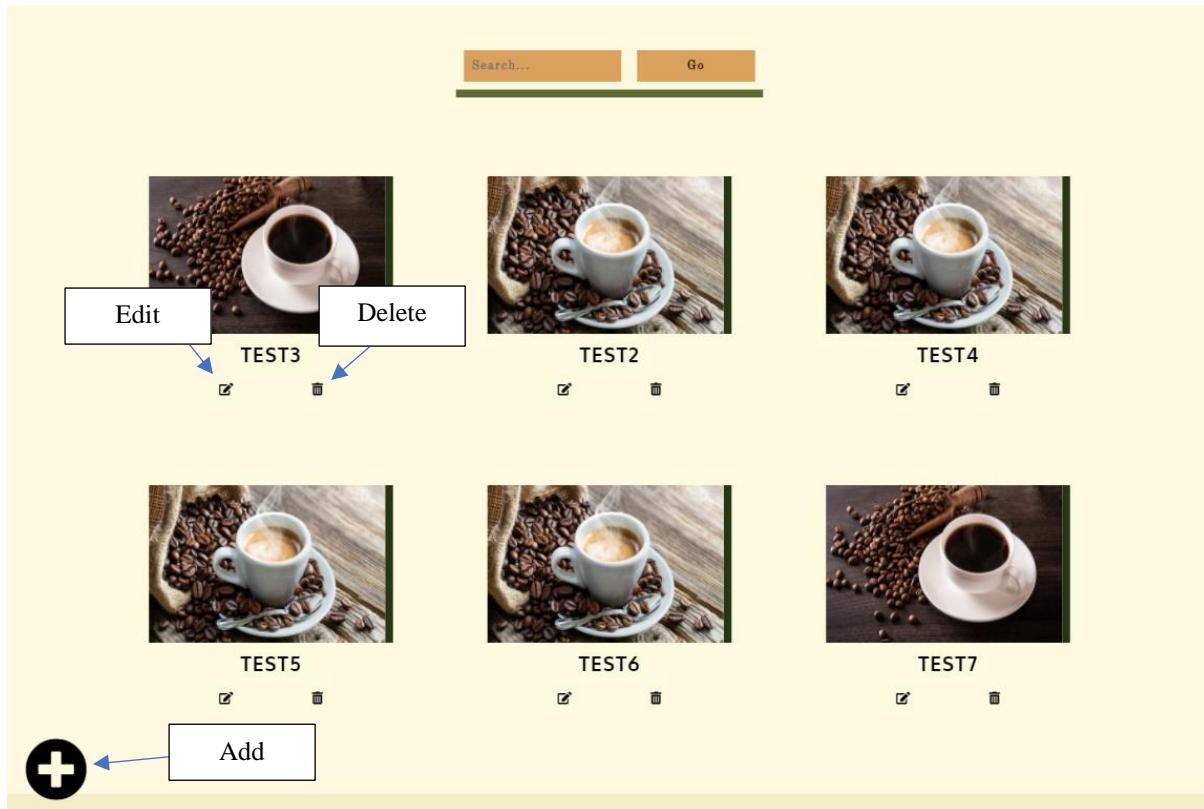
This is the navigation bar for the admin side. It is roughly the same as the customer side navigation bar with a few added redirect links. However, the web pages will allow admins to edit and delete content to suit necessary changes in the long run.

Bean Page (Admin)



This is the Admin side bean page. As seen, the edit button and delete button are present for the admin to alter. An add button at the bottom left corner is also added to allow admins to add new beans to the web site. By pressing on the edit button, it will redirect the admin to the edit bean page. The delete button will remove the beans from the page as well as from the database. Besides that, pressing the add button will redirect the admin to the add bean page.

Coffeepedia Page (Admin)



Similar to the admin bean page, admin functionalities are also added to the Coffeepedia page for the admin side. The functions for the edit, delete and add icon are the same as the admin side bean page. By pressing on the add icon on the bottom left corner, it will redirect the admin to the add coffeepedia web page. Pressing the edit button will redirect you to the edit coffeepedia page and the delete button will delete the blog from the web page.

Profile page (Admin)

The screenshot shows the Admin Profile Page. At the top, it displays "ADMIN DETAILS" in a green header bar. Below this, there are three sections: "Username: Admin", "Email: beanbros2022@gmail.com", and "Password: *#*#*#*#". Below these sections are several management links: "View Feedback", "Manage Customer", "Manage Order", "Generate Monthly Report", and "Add New Coffee Bean".

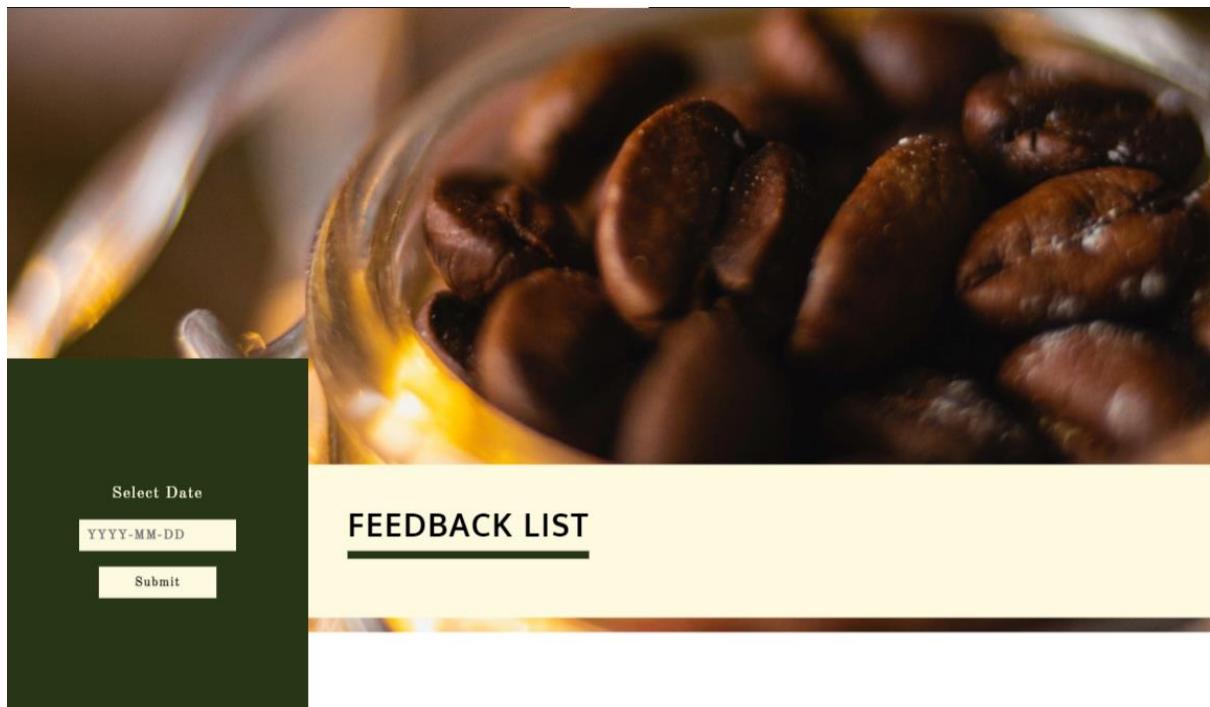
This is the profile page for the admin. The page has some differences compared to the customer side profile page. For the admin, he/she is able to view customer feedback, generate monthly report, manage customer, add new coffee bean and also manage order.

Report page

The screenshot shows the "BEAN BROS MONTHLY REPORT GENERATOR" page. It features a "Select Month" dropdown menu set to "January" and a "Generate" button. Below this, there is a dark rectangular area containing a coffee bean icon and the text "BEAN BROS MONTHLY REPORT".

This is the report page. The monthly report generator will generate report based on customer transaction on a selected month. To generate a report, press the drop down menu to the right of Select Month. Next, select the month you want to print a report for. After that, press generate.

Feedback Page (Admin)



This is the admin side feedback page. Customer feedbacks will be sent to this page for the admins to review. Besides that, admins can also select a date to view feedbacks that are submitted on that specific date by first keying in the date you desire, after that, press submit.

Customer Page

The screenshot shows a dark-themed web application. On the left, there is a sidebar with a "Search" section containing a text input field labeled "Name ..." and a "Submit" button. The main area is titled "CUSTOMER LIST" with a horizontal line. It displays two customer profiles in separate dark boxes:

Customer 1:
Username: Night
Email: xianzyip8@gmail.com
Contact Number (Personal): 0128981055
Contact Number (Work): 053223511
Password: *#*#*#*#
Subscription Tier:

Customer 2:
Username: Marcus
Email: maresongjr@gmail.com
Contact Number (Personal): 0193579163
Contact Number (Work): 019357916
Password: *#*#*#*#
Subscription Tier:

Each profile box contains an "ERASE DATA" button with a trash icon.

This is the customer page. As an admin feature, this page allows admins to search and manage customer data from the customer list. A search function is available for easy navigation.

Order Page

The screenshot shows a dark-themed web application. On the left, there is a sidebar with a "Search Name" section containing a text input field labeled "Customer Name ..." and a "Submit" button. The main area is titled "ORDER LIST" with a horizontal line. It displays one order detail in a dark box:

Order ID: 1
Order Date: 2022-03-19
Coffee Bean: Tanzanian Peaberry Coffee
Amount (kg): 120
Total (RM): 6000
Customer Username: Night
Email: xianzyip8@gmail.com
Contact Number (Personal): 0128981055
Contact Number (Work): 053223511
Status: Completed

The order box contains a "CHANGE STATUS" button with a pen icon and a "DELETE ORDER" button with a trash icon.

This is the order page. This admin function allows the admin to search, change the status of customer's orders and delete a customer's order. A search function is also added to provide for easy navigation.

16. Test Plan

16.1 Unit Testing

Unit testing was performed on the Bean Bros Wholesaler website where all functionalities are tested to test the accuracy and efficiency before publishing it to our customer. The purpose of having unit testing is to validate each and every unit of the code to perform as expected. The outcome of the unit testing will be judged and documented before finalizing the project.

Test Case	Test Unit	Test Procedures	Test Data (*) is required	Expected Results	Actual Result	Status (Successful / Fail)
		Correct Input Data				
T001	Customer Register	1. Insert username 2. Insert company email address 3. Insert password 4. Insert password again to confirm 5. Insert company contact number 6. Insert personal contact number 7. Click "Submit" button	1. username*: ong 2. email*: ong@gmail.com 3. password*: 123456 4. confirm password*: 123456 5. company contact no*: 80811047 6. personal contact no*: 0162552655	Successfully register an account	Register account successful	Successful
		Incorrect Input Data				
		1. Insert username 2. Insert company email address 3. Insert password	1. username*: ong 2. email*: ong123@gmail.com 3. password*: 1234	Unsuccessful registration due to the inserted username and email	Register account fail and alert message displayed.	Successful

		4. Insert password again to confirm 5. Insert company contact number 6. Insert personal contact number 7. Click "Submit" button	4. confirm password*: 123 5. company contact no*: 80800066 6. personal contact no*: 0189976268	is belong to an account in the database. User will be required to insert a new username and email.		
T002	Customer Login	Correct Input Data				
		1. Insert username 2. Insert password 3. Click "Submit" button	1. username*: Night 2. password*: 1111	Successfully login to account	Login Successful	Successful
		Incorrect Input Data				
T003	Customer (Forgot Username)	Correct Input Data				
		1. Insert email 2. Insert new username 3. Insert password 4. Click "Submit" button	1. email*: ong@gmail.com 2. new username*: onglittsen 3. password*: 1234	New username successfully updated	New username updated	Successful
		Incorrect Input Data				
		1. Insert email 2. Insert new username 3. Insert password 4. Click "Submit" button	1. email*: test@gmail.com 2. new username*: onglittsen 3. password*: 1234	Incorrect email address, an alert message will be displayed that user is required to re-enter	New username update unsuccessful and alert message displayed	Successful

				the valid email address.		
T004	Customer (Forgot Password)	Correct Input Data				
		1. Insert email 2. Insert username 3. Insert new password 4. Insert new password again to confirm 5. Click "Submit" button	1. email*: ong@gmail.com 2. username*: onglittsen 3. new password*: 2002 4. new password to confirm*: 2002	New password successfully updated	New password updated	Successful
T005	Search coffee bean (Customer)	Incorrect Input Data				
		1. Insert email 2. Insert username 3. Insert new password 4. Insert new password again to confirm 5. Click "Submit" button	1. email*: ong@gmail.com 2. username*: test 3. new password*: 2002 4. new password to confirm*: 2002	Incorrect username, an alert message will be displayed that user is required to re-enter the valid username.	New password update unsuccessful and alert message displayed	Successful
T006		Correct Input Data				

	Search coffee bean (Admin)	1. Insert coffee bean name 2. Click "Find it"	1. coffee bean name*: Mocha Java Coffee	Coffee bean named "Mocha Java" will be displayed along with the bean's details	Coffee bean found along with bean's details	Successful
		Incorrect Input Data				
	Search coffeepedia (Customer)	1. Insert coffee bean name 2. Click "Find it"	1. coffee bean name*: test123	Coffee bean will not be displayed as no coffee bean named "test123" in our system	Coffee bean not found	Successful
		Correct Input Data				
T007	Search coffeepedia (Customer)	1. Insert article name 2. Click "Go"	1. article name*: What is Coffee Bean?	Article named "What is Coffee Bean?" will be displayed	Article found	Successful
		Incorrect Input Data				
	Search coffeepedia (Admin)	1. Insert article name 2. Click "Go"	1. article name*: test123	Article will not be displayed as no article named "test123" in our system	Article not found	Successful
		Correct Input Data				
T008	Search coffeepedia (Admin)	1. Insert article name 2. Click "Go"	1. article name*: Coffee Bean - GOOD or BAD?	Article named "Coffee Bean - GOOD or BAD?" will be displayed	Article found	Successful
		Incorrect Input Data				
	Search coffeepedia (Admin)	1. Insert article name 2. Click "Go"	1. article name*: test123	Article will not be displayed as no	Article not found	Successful

				article named "test123" in our system		
		Correct Input Data				
T009	Edit Contact Details (Customer)	1. Insert contact no (work) 2. Insert contact no (personal) 3. Click "Confirm Changes" button	1. contact no (work)* : 659789665 2. contact no (personal)* : 0195567899	Successfully updated contact details	Contact Details updated	Successful
		1. Insert contact no (work) 2. Insert contact no (personal) 3. Click "Confirm Changes" button	1. contact no (work)* : 659789665 2. contact no (personal)* : test	Update unsuccessful due to incorrect requested format	Contact Details update unsuccessful	Successful
		Incorrect Input Data				
T010	Change Subscription (Customer)	1. Click one tier 2. Insert credit card number 3. Insert credit card expiry date 4. Insert credit card CVV 5. Click "Confirm Subscription" button	1. Click "Gold" 2. credit card number* = 4655-8900-7899-6655 3. expiring date* = 02-24 4. credit card CVV: 000	New subscription will be confirmed and displayed	Subscription successfully updated	Successful
		1. Click one tier	1. Click "Platinum"			Successful
		Incorrect Input Data				

		2. Insert credit card number 3. Insert credit card expiry date 4. Insert credit card CVV 5. Click "Confirm Subscription" button	2. credit card number* = 4655890078996655 3. expiring date* = 02-24 4. credit card CVV*: 000	Subscription unsuccessful, an alert message will be displayed that user is required to re-enter the valid credit card number.	Subscription unsuccessful and alert message displayed	
T011	Submit Feedback (Customer)	Correct Input Data				
		1. Insert feedback 2. Click "Submit"	1. Insert Feedback* : I love the website design!	Feedback will be received anonymously	Feedback Received anonymously	Successful
		Incorrect Input Data				
		1. Insert feedback 2. Click "Submit"	1. Insert Feedback* :	Feedback will not be submitted since the form is blank, and alert message will be displayed to require user to fill up the form	Feedback not received, and alert message displayed	Successful
T012	Make Order (Customer)	Correct Input Data				
		1. Select one type of coffee bean 2. Insert preferred amount (kg) 3. Click "Completed Roasting" button	1. Select one type of coffee bean* : Hawaii Kona Coffee 2. Insert preferred amount (kg) * : 75kg	Coffee Bean order will be accepted, status of order is pending	Order accepted, status of order is pending	Successful
		Incorrect Input Data				
		1. Select one type of coffee bean	1. Select one type of coffee bean* : Hawaii Kona Coffee	Coffee Bean order will not be accepted	Order not accepted, alert message displayed	Successful

		2. Insert preferred amount (kg) 3. Click "Completed Roasting" button	2. Insert preferred amount (kg) * : since there are blank section, alert message will be displayed to inform customer to fill up blank section		
T013	View Order History (Customer)	Correct Input Data			
		1. Click "View Order History" 2. Click "View" to view invoice	1. Click "View Order History" : Guatemala Antigua Coffee 2. Click "View" to view invoice: Order invoice displayed	Customer order's history will be displayed along with view invoice button. Once view button is clicked, invoice will be generated	Order's history displayed , invoice generated as well
		Incorrect Input Data			
		N / A	N / A	N / A	N / A
T014	Add New Coffee Bean (Admin)	Correct Input Data			
		1. Insert new coffee bean name 2. Insert new coffee bean image 3. Insert coffee bean produced country 4. Insert coffee bean roast type 5. Insert coffee bean price per kg	1. Insert new coffee bean name*: Starbucks Coffee 2. Insert new coffee bean image*: starbucks.jpg 3. Insert coffee bean produced country*: Malaysia 4. Insert coffee bean roast type*: Light roast 5. Insert coffee bean price per kg*: 45	New coffee bean added into the page, bean's name, image, country, roast type, price and description are all displayed	New coffee bean added along with bean's details
					Successful

		6. Insert coffee bean description 7. Click "Beans Out !" button	6. Insert coffee bean description *: Delicious and favorable coffee bean			
Incorrect Input Data						
		1. Insert new coffee bean name 2. Insert new coffee bean image 3. Insert coffee bean produced country 4. Insert coffee bean roast type 5. Insert coffee bean price per kg 6. Insert coffee bean description 7. Click "Beans Out !" button	1. Insert new coffee bean name* : Test 2. Insert new coffee bean image*: test.jpg 3. Insert coffee bean produced country*: test 4. Insert coffee bean roast type*: test 5. Insert coffee bean price per kg*: test 6. Insert coffee bean description *: test	No coffee bean added into the page, bean's name, image, country, roast type, price and description are not displayed due to invalid format at price section	No new coffee bean added along with bean's details	Successful
Correct Input Data						
T015	Edit Coffee Bean (Admin)	1. Insert coffee bean name 2. Insert coffee bean image 3. Insert coffee bean produced country 4. Insert coffee bean roast type	1. Insert coffee bean name* :Kenya AA Coffee 2. Insert coffee bean image*: Kenya.jpg 3. Insert coffee bean produced country*: Malaysia 4. Insert coffee bean roast type*: Light roast	Coffee bean edited, produced country of the coffee bean updated	Coffee bean edited, produced country of the coffee bean updated from Kenya to Malaysia	Successful

		<p>5. Insert coffee bean price per kg</p> <p>6. Insert coffee bean description</p> <p>7. Click "Update" button</p>	<p>5. Insert coffee bean price per kg*: 45</p> <p>6. Insert coffee bean description *: Delicious and favourable coffee bean</p>		
Incorrect Input Data					
		<p>1. Insert coffee bean name</p> <p>2. Insert coffee bean image</p> <p>3. Insert coffee bean produced country</p> <p>4. Insert coffee bean roast type</p> <p>5. Insert coffee bean price per kg</p> <p>6. Insert coffee bean description</p> <p>7. Click "Update" button</p>	<p>1. Insert coffee bean name*: Kenya AA Coffee</p> <p>2. Insert coffee bean image*:</p> <p>3. Insert coffee bean produced country*: Malaysia</p> <p>4. Insert coffee bean roast type*: Light roast</p> <p>5. Insert coffee bean price per kg*: 45</p> <p>6. Insert coffee bean description *: Delicious and favourable coffee bean</p>	<p>Coffee bean not edited since no image file chosen to be updated, display alert message</p>	<p>Coffee bean does not edit, alert message displayed</p>
T016	Delete Coffee Bean (Admin)		Correct Input Data		
		<p>1.Select one coffee bean to delete</p> <p>2. Click "Ok"</p>	<p>1.Select one coffee bean to delete: Kenya AA Coffee</p>	<p>Coffee Bean deleted along with bean's name, image, country, roast type, price, and description</p>	<p>Coffee bean deleted along with bean's details</p>
					Successful

		Incorrect Input Data				
		N / A	N / A	N / A	N / A	N / A
		Correct Input Data				
T017	Add Coffeepedia (Admin)	1. Insert article title 2. Insert author 3. Insert written date 4. Insert content 5. Click "New Blog" button	1. Insert article title*: Test article 2. Insert author*: Wikipedia 3. Insert written date*: 2022-04-02 4. Insert content*: test	New article will be added and displayed along with article author, content and written date	New article added along with article details	Successful
		Incorrect Input Data				
		1. Insert article title 2. Insert author 3. Insert written date 4. Insert content 5. Click "New Blog" button	1. Insert article title*: Test article 2. Insert author*: Wikipedia 3. Insert written date*: 2022-04-02 4. Insert content*:	New article not added since one section is blank and alert message will be displayed to require admin to fill up the blank section	New article not added and alert message displayed	Successful
		Correct Input Data				
T018	Edit Coffeepedia (Admin)	1. Insert article title 2. Insert author 3. Insert written date 4. Insert content 5. Click "Update" button	1. Insert article title*: Types of Coffee Makers 2. Insert author*: Christina Hersbst 3. Insert written date*: 2022-01-11 4. Insert content*: test	Respective article content will be edited	Article content edited and updated	Successful
		Incorrect Input Data				

		<ol style="list-style-type: none"> 1. Insert article title 2. Insert author 3. Insert written date 4. Insert content 5. Click "Update" button 	<ol style="list-style-type: none"> 1. Insert article title*: Types of Coffee Makers 2. Insert author*: 3. Insert written date*: 2022-01-11 4. Insert content*: test 	<p>Respective article content will not be edited and updated since one section is blank and alert message will be displayed</p>	<p>Article update fail and alert message displayed</p>	Successful
T019	Delete Coffeepedia (Admin)	Correct Input Data				
		1.Select one coffeepedia to delete 2. Click "Ok"	1.Select one coffeepedia to delete: Test article	Coffeepedia deleted along with article's author, written date and article content	Coffeepedia deleted along with article's details	Successful
	Search Customer Details (Admin)	Incorrect Input Data				
		N / A	N / A	N / A	N / A	N / A
T020	Search Customer Details (Admin)	Correct Input Data				
		1. Search customer username 2. Click "Submit"	1.Search customer username*: Night	Find customer details and display	Customer details found and displayed	Successful
		Incorrect Input Data				
		1. Search customer username 2. Click "Submit"	1.Search customer username*:	Unable to find customer details since the required section is blank and alert message displayed for admin to enter the blank section	Customer details not found and alert message displayed	Successful

		Correct Input Data				
T021	Delete Customer (Admin)	1.Select one customer to delete 2. Click "Ok"	1.Select one coffeeepedia to delete: Ong	Customer deleted along with customer username, email, personal contact no, work contact no, password and subscription tier	Customer deleted along with customer details	Successful
		Incorrect Input Data				
		N / A	N / A	N / A	N / A	N / A
		Correct Input Data				
T022	Change customer order status (Admin)	1. Click "Change status" 2. Click "Ok"	1. Click "Change status"	Status changed once payment done face to face	Status successfully changed	Successful
		Incorrect Input Data				
		N / A	N / A	N / A	N / A	N / A
		Correct Input Data				
T023	Delete customer order (Admin)	1. Click "Delete Order" 2. Click "Ok"	1. Click "Delete Order"	Order Deleted and cannot be undone	Order successfully deleted and will be unable to undo that action	Successful
		Incorrect Input Data				
		N / A	N / A	N / A	N / A	N / A
T024		Correct Input Data				

		1. Insert date 2. Click "Submit"	1. Insert date : 2022-03-29	Feedback will be displayed for admin to read	Feedback found and displayed	Successful
Incorrect Input Data						
Read Customer Feedback (Admin)		1. Insert date 2. Click "Submit"	1. Insert date : 20220329	Feedback will not be shown, and alert message will be displayed for admin to follow the requested format	Feedback not shown, and alert message displayed	Successful

16.2 User Acceptance Testing

User acceptance testing is one of many types of testing method for software. User acceptance testing or UAT is performed and conducted with the end users, in this case for Bean Bros Wholesaler System, the end users are guest, customer, and admin. This testing method is to collect feedback about the system before launching the system to the production environment or to the market, thus final adjustment can be made to satisfy end users.

According to three end users' feedback, the feedback has been addressed and implemented to some parts which can be changed. One of the end-users requested for bigger font size which we have increased the font size of some pages by 2 pixels. The other two end-users have no problem regarding the user interface and usability of the system. All in all, Bean Bros Wholesaler system can satisfy the needs of end-users.

a. Guest

Tester's Profile	
Name of Tester	Lai Kai Yong
Position	Student
Email	Tp059040@mail.apu.edu.my
Date of Review	03/04/2022
Testing System Role	Guest / Customer / Admin

Please tick on the scale from the rate of 1 to 5 for the response:

- 1. Very Poor / Highly Disagree**
- 2. Poor / Disagree**
- 3. Neutral**
- 4. Satisfied / Agree**
- 5. Very Satisfied / Highly Agree**

Interface Design						
No	Questions	1	2	3	4	5
1	Interface design are simple and easy to understand.					*
2	Information is clear and factual.				*	

3	Colour palette are suitable for this system.				*	
4	The font style and sizes are comfortable to read.			*		
5	Button functions work as they are labelled.					*
6	Any menus in the interface are aligned appropriately.				*	

Admin-use Only

7	Add coffee bean and coffeepedia page is simple and direct.					
8	Edit coffee bean and coffeepedia page is simple and direct. Information of the existing data is displayed correctly.					
9	Check customer order details page is clear and specific.					
10	Check customer details page is accurate and presented well.					

Consistency						
No	Questions	1	2	3	4	5
1	The design of each page is more or less the same.				*	
2	Colour palette used for each page are consistent.				*	
3	Font style and sizes used for each page are consistent.				*	
4	Information provided in each page are the same with the others.				*	
5	Layout of the buttons and text fields are the same.				*	

Performance						
No	Questions	1	2	3	4	5
1	System executed without any error.			*		
2	Data are being saved to database without any error.					*
3	Data displayed from the database to the system without errors.				*	
4	Login and registration are time consuming.	*				
5	Battery drains faster than it should be while using the system,	*				
6	Network latency is more frequent while using the system.	*				

Confirmation and Information Messages						
No	Questions	1	2	3	4	5
1	Confirmation message appeared when order is placed.				*	

2	Error message appeared when there is an error in login and registration.					*
3	Error message appeared when the wrong format for payment is typed.				*	
4	Notification message appeared when subscription is changed.				*	
Admin-use Only						
5	Confirmation message appeared when deleting coffee bean and coffeepedia.					
6	Error message appeared when including the wrong format for coffee bean details and coffeepedia content.					
7	Notification message appeared when new coffee bean and coffeepedia are added.					
8	Confirmation message appeared when deleting customer data.					
9	Confirmation message appeared when deleting customer order.					
10	Confirmation message appeared when changing customer order status to Completed.					

Tester's Feedback
Font can be bigger.

Tester's Signature:

Lai Kai Yong

b. Customer

Tester's Profile	
Name of Tester	Khong Yan Ting
Position	Student
Email	Khongyanting2002@gmail.com
Date of Review	3/4/2022
Testing System Role	Guest / Customer / Admin

Please tick on the scale from the rate of 1 to 5 for the response:

1. Very Poor / Highly Disagree
2. Poor / Disagree
3. Neutral
4. Satisfied / Agree
5. Very Satisfied / Highly Agree

Interface Design						
No	Questions	1	2	3	4	5
1	Interface design are simple and easy to understand.				/	
2	Information is clear and factual.				/	
3	Colour palette are suitable for this system.				/	
4	The font style and sizes are comfortable to read.			/		
5	Button functions work as they are labelled.					/
6	Any menus in the interface are aligned appropriately.				/	
Admin-use Only						
7	Add coffee bean and coffeepedia page is simple and direct.					
8	Edit coffee bean and coffeepedia page is simple and direct. Information of the existing data is displayed correctly.					
9	Check customer order details page is clear and specific.					
10	Check customer details page is accurate and presented well.					

Consistency						
No	Questions	1	2	3	4	5

1	The design of each page is more or less the same.				/	
2	Colour palette used for each page are consistent.					/
3	Font style and sizes used for each page are consistent.				/	
4	Information provided in each page are the same with the others.				/	
5	Layout of the buttons and text fields are the same.				/	

Performance						
No	Questions	1	2	3	4	5
1	System executed without any error.				/	
2	Data are being saved to database without any error.					/
3	Data displayed from the database to the system without errors.					/
4	Login and registration are time consuming.		/			
5	Battery drains faster than it should be while using the system,		/			
6	Network latency is more frequent while using the system.		/			

Confirmation and Information Messages						
No	Questions	1	2	3	4	5
1	Confirmation message appeared when order is placed.				/	
2	Error message appeared when there is an error in login and registration.					/
3	Error message appeared when the wrong format for payment is typed.					/
4	Notification message appeared when subscription is changed.				/	
Admin-use Only						
5	Confirmation message appeared when deleting coffee bean and coffeepedia.					
6	Error message appeared when including the wrong format for coffee bean details and coffeepedia content.					
7	Notification message appeared when new coffee bean and coffeepedia are added.					
8	Confirmation message appeared when deleting customer data.					
9	Confirmation message appeared when deleting customer order.					

10	Confirmation message appeared when changing customer order status to Completed.							
----	---	--	--	--	--	--	--	--

Tester's Feedback

Overall system is functionable without error, the choice of colour is also appropriate with the theme.

Tester's Signature:

Khong Yan Ting

c. **Admin**

Tester's Profile	
Name of Tester	Ong Kah Wai
Position	Student
Email	ongkw118@gmail.com
Date of Review	3/4/2022
Testing System Role	Guest / Customer / Admin

Please tick on the scale from the rate of 1 to 5 for the response:

1. Very Poor / Highly Disagree
2. Poor / Disagree
3. Neutral
4. Satisfied / Agree
5. Very Satisfied / Highly Agree

Interface Design						
No	Questions	1	2	3	4	5
1	Interface design are simple and easy to understand.					/
2	Information is clear and factual.				/	
3	Colour palette are suitable for this system.				/	
4	The font style and sizes are comfortable to read.				/	
5	Button functions work as they are labelled.					/
6	Any menus in the interface are aligned appropriately.				/	
Admin-use Only						
7	Add coffee bean and coffeepedia page is simple and direct.					/
8	Edit coffee bean and coffeepedia page is simple and direct. Information of the existing data is displayed correctly.					/
9	Check customer order details page is clear and specific.				/	
10	Check customer details page is accurate and presented well.			/		

Consistency						
No	Questions	1	2	3	4	5

1	The design of each page is more or less the same.				/	
2	Colour palette used for each page are consistent.					/
3	Font style and sizes used for each page are consistent.					/
4	Information provided in each page are the same with the others.					/
5	Layout of the buttons and text fields are the same.				/	

Performance						
No	Questions	1	2	3	4	5
1	System executed without any error.				/	
2	Data are being saved to database without any error.					/
3	Data displayed from the database to the system without errors.					/
4	Login and registration are time consuming.		/			
5	Battery drains faster than it should be while using the system,	/				
6	Network latency is more frequent while using the system.		/			

Confirmation and Information Messages						
No	Questions	1	2	3	4	5
1	Confirmation message appeared when order is placed.					/
2	Error message appeared when there is an error in login and registration.					/
3	Error message appeared when the wrong format for payment is typed.					/
4	Notification message appeared when subscription is changed.					/
Admin-use Only						
5	Confirmation message appeared when deleting coffee bean and coffeepedia.					/
6	Error message appeared when including the wrong format for coffee bean details and coffeepedia content.					/
7	Notification message appeared when new coffee bean and coffeepedia are added.					/
8	Confirmation message appeared when deleting customer data.					/
9	Confirmation message appeared when deleting customer order.					/

10	Confirmation message appeared when changing customer order status to Completed.							/
----	---	--	--	--	--	--	--	---

Tester's Feedback

Gute Arbeit – Great Job.

Tester's Signature:A handwritten signature consisting of two stylized letters, possibly 'K' and 'W', written in black ink on a horizontal line.

17. Significant Source Codes

a. Registration

```
<?php
// Connect to database
include("conn.php");

// Customer Info and Validations
$username = mysqli_real_escape_string($con, $_POST['username']);
$email = mysqli_real_escape_string($con, $_POST['email']);
$password = mysqli_real_escape_string($con, $_POST['password']);
$check_password = mysqli_real_escape_string($con, $_POST['check_password']);
$contact_work = mysqli_real_escape_string($con, $_POST['contact_work']);
$contact_personal = mysqli_real_escape_string($con, $_POST['contact_personal']);

// MySQL Queries
$insert = "INSERT INTO customer (Username, Email, Password, Company_Contact, Personal_Contact) VALUES ('$_POST[username]', '$_POST[email]', '$_POST[password]', '$check_password', '$contact_work', '$contact_personal')";
$check_username = "SELECT * FROM customer WHERE Username = '$username'";
$check_email = "SELECT * FROM customer WHERE Email = '$email'";

$validate_username = mysqli_query($con, $check_username);
$validate_email = mysqli_query($con, $check_email);

// PHP
if($password == $check_password)
{
    if(mysqli_num_rows($validate_email) == 0)
    {
        if(mysqli_num_rows($validate_username) == 0)
        {
            if(mysqli_query($con, $insert))
            {
                echo
                '<script>
                    alert("Thank you for signing up with Bean Bros. Please proceed to login.");
                    window.location.href = "signuploginforgot.php";
                </script>';
            }
            else
            {
                echo
                '<script>
                    alert("Sign up failed. Please try again. Sorry for the inconvenience.");
                    window.location.href = "signuploginforgot.php";
                </script>';
            }
        }
        else
        {
            echo
            '<script>
                alert("Username is already taken. Please try a different username.");
                window.location.href = "signuploginforgot.php";
            </script>';
        }
    }
    else
    {
        echo
        '<script>
            alert("There is an existing email address similar to what you typed. Please login or try a different email address.");
            window.location.href = "signuploginforgot.php";
        </script>';
    }
} else
{
    echo
    '<script>
        alert("Passwords are not matching.");
        window.location.href = "signuploginforgot.php";
    </script>';
}
```

Here is the PHP backend code snippet for registration. The first few lines are used to declare the variables to use later in the logic for registration which the input is taken from the signuploginforgot.html file. After that, \$insert will be the SQL query to insert a new customer into the database. There will be logic to validate the username and email address before inserting a new customer into the database to check whether there is any similar username and email address in the database. If there is a similar username or email address, the system will prompt an error to notify the customer to change their username. If not, it will pass the \$insert and create a new column for new customer in the database table.

b. Login

```
<?php
// Connect to database
include("conn.php");

// Confirm server method POST
if($_SERVER["REQUEST_METHOD"] == "POST")
{
    // Customer Info
    $pending_username = mysqli_real_escape_string($con, $_POST['username']);
    $pending_password = mysqli_real_escape_string($con, $_POST['password']);

    // If Admin
    if($pending_username == 'Admin' && $pending_password == 'admin')
    {
        session_start();
        $_SESSION['Admin_ID'] = '1';

        echo
        '<script>
        alert("Login successful. Welcome to Bean Bros Admin!");
        window.location.href = "adminhome.php";
        </script>';
    }
    else
    {
        // MySQL Queries
        $getID = "SELECT Customer_ID FROM customer WHERE Username = '$pending_username' AND Password = '$pending_password';";
    }
}
```

```
// Get customer ID
$findID = mysqli_query($con, $getID);

if($findID)
{
    $rowCount = mysqli_num_rows($findID);

    if($rowCount == 1)
    {
        session_start();
        $fetchID = mysqli_fetch_assoc($findID);
        $_SESSION['Customer_ID'] = $fetchID['Customer_ID'];

        echo
        '<script>
        alert("Login successful. Welcome to Bean Bros!");
        window.location.href = "home.php";
        </script>';
    }
    else
    {
        echo
        '<script>
        alert("Either username or password is incorrect. Please try again.");
        window.location.href = "signuploginforgot.php";
        </script>';
    };
    --
}
else
{
    echo
    '<script>
    alert("SQL Localhost Error.");
    window.location.href = "signuploginforgot.php";
    </script>';
};

};

// Close connection to database
mysqli_close($con);
?>
```

Here is the PHP backend code snippet for login. The first statement is to determine whether the server method is “POST”. After that, it will declare two variables for username and password which the user has typed in the signuploginforgot.html file. Then, it will check whether the user is admin or a customer. If the user used the admin username and password, the user could access the admin version of the system. If not, the logic will search for each line in the database table to find the exact username and password. The user will login and redirect to the homepage if they typed their credentials correctly or they will get prompted by an error message.

c. Forget Username

```
<?php
// Connect to database
include("conn.php");

// Start a session
session_start();

// Customer Info and Validation
$email = mysqli_real_escape_string($con, $_POST['email']);
$new_username = mysqli_real_escape_string($con, $_POST['new_username']);
$password = mysqli_real_escape_string($con, $_POST['password']);

// MySQL Queries
$check_email = "SELECT * FROM customer WHERE Email = '$email'";
$check_username = "SELECT * FROM customer WHERE Username = '$new_username'";
$check_password = "SELECT * FROM customer WHERE Password = '$password'";

$validate_email = mysqli_query($con, $check_email);
$validate_username = mysqli_query($con, $check_username);
$validate_password = mysqli_query($con, $check_password);

$update_username = "UPDATE customer SET Username = '$new_username' WHERE Email = '$email' AND Password = '$password'";

if(mysqli_num_rows($validate_email) == 1)
{
    if(mysqli_num_rows($validate_username) == 0)
    {
        if(mysqli_num_rows($validate_password) == 1)
        {
            if(mysqli_query($con, $update_username))
            {
                echo
                '<script>
                alert("Username has changed. Please login again.");
                window.location.href = "signuploginforgot.php";
                </script>';
            }
            else
            {
                echo
                '<script>
                alert("Failed to change username. Please try again.");
                window.location.href = "signuploginforgot.php";
                </script>';
            }
        }
    }
}
```

```

    {
        echo
        '<script>
        alert("Password is incorrect. Please re-enter.");
        window.location.href = "signuploginforgot.php";
        </script>';
    }
}
else
{
    echo
    '<script>
    alert("Username is already taken. Please re-enter.");
    window.location.href = "signuploginforgot.php";
    </script>';
}
}
else
{
    echo
    '<script>
    alert("Email address is incorrect. Please re-enter.");
    window.location.href = "signuploginforgot.php";
    </script>';
}

// Close connection to database
mysqli_close($con);
?>

```

Here is the PHP backend code snippet for forget username. The system will need to validate if the user real or another user is using it by validating with email address. If the email address matches with the user, only then the system will change the username of the user. Similar to the sign-up code snippet, the system will prompt error if there is a same username in the database.

d. Forget Password

```
<?php
// Connect to database
include("conn.php");

// Start a session
session_start();

// Customer Info
$email = mysqli_real_escape_string($con, $_POST['email']);
$username = mysqli_real_escape_string($con, $_POST['username']);
$new_password = mysqli_real_escape_string($con, $_POST['new_password']);
$confirm_password = mysqli_real_escape_string($con, $_POST['confirm_password']);

// MySQL Queries
$check_email = "SELECT * FROM customer WHERE Email = '$email';";
$check_username = "SELECT * FROM customer WHERE Username = '$username';";

$validate_email = mysqli_query($con, $check_email);
$validate_username = mysqli_query($con, $check_username);

$update_password = "UPDATE customer SET Password = '$new_password' WHERE Username = '$username' AND Email = '$email';"

if($new_password !== $confirm_password)
{
    echo
    '<script>
    alert("Passwords are not matching. Please re-enter.");
    window.location.href = "signuploginforgot.php";
    </script>';
}
```

```
else
{
    if(mysqli_num_rows($validate_email) == 1)
    {
        if(mysqli_num_rows($validate_username) == 1)
        {
            if(mysqli_query($con, $update_password))
            {
                echo
                '<script>
                alert("Password has changed. Please login again.");
                window.location.href = "signuploginforgot.php";
                </script>';
            }
            else
            {
                echo
                '<script>
                alert("Failed to change password. Please try again.");
                window.location.href = "signuploginforgot.php";
                </script>';
            }
        }
        else
        {
            echo
            '<script>
            alert("Username is incorrect. Please login again.");
            window.location.href = "signuploginforgot.php";
            </script>';
        }
    }
    else
    {
        echo
        '<script>
        alert("Email address is incorrect. Please re-enter.");
        window.location.href = "signuploginforgot.php";
        </script>';
    }
}

// Close connection to database
mysqli_close($con);
?>
```

Here is the PHP backend code snippet for forget password. The logic is the same as forget username, but instead of using email to validate the user, the user's username will be used to validate the user in order to update the new password to the database.

e. Calculate Order Price with Subscription Discount

```
<?php
include("conn.php");
include("session.php");

$customerID = $_SESSION['Customer_ID'];

$beanID = mysqli_real_escape_string($con, $_POST['coffee-bean']);
$beanAmount = mysqli_real_escape_string($con, $_POST['amount']);

// MySQL Queries
$date = date('Y-m-d');

$getCustomerSub = mysqli_query($con, "SELECT * FROM customer WHERE Customer_ID = '$customerID'");

$sub = mysqli_fetch_assoc($getCustomerSub);

$getData = mysqli_query($con, "SELECT * FROM coffee_beans WHERE Bean_ID = '$beanID'");

$row = mysqli_fetch_assoc($getData);

$insertData = "";

if($sub['Subscription'] == "Silver")
{
    $insertData = "INSERT INTO customer_order (Customer_ID, Bean_ID, Coffee_Bean, Amount, Price_Per_Kg, Total, Status, Order_Date, Subscription_When_Order)
VALUES
('$customerID', '$beanID', '$row[Bean_ID]', '$beanAmount', '$row[Price_Per_Kg]', ('$beanAmount' * '$row[Price_Per_Kg]') * 0.85, 'Pending', '$date', '$sub[Subscription]')";
}
elseif($sub['Subscription'] == "Gold")
{
    $insertData = "INSERT INTO customer_order (Customer_ID, Bean_ID, Coffee_Bean, Amount, Price_Per_Kg, Total, Status, Order_Date, Subscription_When_Order)
VALUES
('$customerID', '$beanID', '$row[Bean_ID]', '$beanAmount', '$row[Price_Per_Kg]', ('$beanAmount' * '$row[Price_Per_Kg]') * 0.75, 'Pending', '$date', '$sub[Subscription]')";
}
elseif($sub['Subscription'] == "Platinum")
{
    $insertData = "INSERT INTO customer_order (Customer_ID, Bean_ID, Coffee_Bean, Amount, Price_Per_Kg, Total, Status, Order_Date, Subscription_When_Order)
VALUES
('$customerID', '$beanID', '$row[Bean_ID]', '$beanAmount', '$row[Price_Per_Kg]', ('$beanAmount' * '$row[Price_Per_Kg]') * 0.6, 'Pending', '$date', '$sub[Subscription]')";
}
else
{
    $insertData = "INSERT INTO customer_order (Customer_ID, Bean_ID, Coffee_Bean, Amount, Price_Per_Kg, Total, Status, Order_Date)
VALUES
('$customerID', '$beanID', '$row[Bean_ID]', '$beanAmount', '$row[Price_Per_Kg]', ('$beanAmount' * '$row[Price_Per_Kg]'), 'Pending', '$date')";
}

$insertQuery = mysqli_query($con, $insertData);

if($insertQuery)
{
    echo
    '<script>
    alert("Your order has been confirmed. You can view it in your order history.\nBean Bros invites you to come to our factory and inspect the coffee beans you ordered.\nPayment will be made
    window.location.href = "customerprofile.php";
    </script>';
}
else
{
    echo
    '<script>
    alert("Failed to make order. Please try again later.");
    window.location.href = "customerprofile.php";
    </script>';
}

mysqli_close($con);
```

Here is the PHP backend code snippet for ordering coffee bean used by customer. The system will check whether the user has logged in or not before allowing them to place an order. If customers are not logged in, they will be redirected to the login page. After that, the system will check the subscription of the customer to calculate the price after discount according to the benefit of subscription stated in the homepage. \$insertQuery is the SQL to insert a new order to the customer order history table in the database. \$getDate is to acquire the date when the customer placed the order in format of Year-Month-Day.

f. Add data to database

```
<?php
include("conn.php");

$uploadImage = $_FILES['image']['tmp_name'];

$img = file_get_contents($uploadImage);

$sql="INSERT INTO coffee.Bean (Coffee.Bean, Coffee.Bean.Image, Country, Roast, Price_Per_kg, Description)
VALUES
('$_POST[name]', ?, '$_POST[country]', '$_POST[roast]', '$_POST[price]', '$_POST[description]')";

$stmt = mysqli_prepare($con,$sql);

mysqli_stmt_bind_param($stmt,"s",$img);

mysqli_stmt_execute($stmt);

$check = mysqli_stmt_affected_rows($stmt);

if($check == 1) {
    echo '<script> alert ("New coffee beans in stock! Image uploaded.");
    window.location.href= "addbeanpage.php";
    </script>';
}

} else {
    echo '<script> alert ("Upload failed.");
    window.location.href= "addbeanpage.php";
    </script>';
}
```

Here is the PHP backend code snippet for adding data into database. Adding coffee bean and coffeepedia (articles) will implement the same code but coffeepedia will not have to upload the image of the article. \$uploadImage is to get the uploaded file from the addbeanpage.html file where admin has included a file to upload to database. \$img is to get the content of the image file where it is in bytes. \$sql is the SQL to insert a new data into the database. \$stmt is to get the image as a statement in order to be uploaded into the database a longblob data type. If there is change in the table of the database, a notification message will pop out and tell admin that the data is successfully uploaded.

g. Update data to database

```
<?php
include("conn.php");

$image = $_FILES['image']['tmp_name'];
$img = file_get_contents($image);

$updateQuery = "UPDATE coffee.Bean SET Coffee_Bean_Name='$_POST[name]', Coffee_Bean_Image='$img', Country='$_POST[country]', Roast='$_POST[roast]', Price_Per_Kg='$_POST[price]', Description='$_POST[description]' WHERE Bean_ID='$_POST[id]';";

$stmt = mysqli_prepare($con,$updateQuery);

mysqli_stmt_bind_param($stmt,"s",$img);

mysqli_stmt_execute($stmt);

$check = mysqli_stmt_affected_rows($stmt);

if ($check == 1) {
    echo '<script>
        alert ("Successfully updated coffee bean and image!");
        window.location.href= "bean_a.php";
    </script>';
} else {
    echo '<script>
        alert ("Failed to update relevant files.");
        window.location.href= "bean_a.php";
    </script>';
}

mysqli_close($con);
```

Here is the PHP backend code snippet for updating data. Updating coffee bean and coffeepedia (articles) will use the same structure but coffeepedia will not have the image file as mentioned before the add data section. The update structure is more or less the same with the add structure, just instead of using INSERT in SQL statement, UPDATE will be used to replace the existing data.

Aside from updating the data, changing the status of the customer order from “Pending” to “Completed” will be the same but there won’t be any variables to declare because it is hardcoded into the logic since it is more feasible to write the code in this way.

h. Delete data

```
<?php
include("conn.php");

$selectData = $_GET['Bean_ID'];

$deleteQuery = mysqli_query($con, "DELETE FROM coffee.Bean WHERE Bean_ID = '$selectData'");

if ($deleteQuery) {
    echo '<script>
        alert ("Successfully delete coffee bean!");
        window.location.href= "bean_a.php";
    </script>';
} else {
    echo '<script>
        alert ("Unable to delete coffee bean!");
        window.location.href= "bean_a.php";
    </script>';
};

mysqli_close($con);
?>
```

Here is the PHP backend code snippet for delete. Deleting coffee bean, coffeepedia (articles), customer data, and customer order will use the same delete structure. It is very straightforward and short because the system will get the ID of the selected delete data and a SQL query with DELETE will run. Before deleting, a confirmation message will prompt admin to continue or to cancel in case of a mis-click.

18. Conclusion

Limitation

As for the limitations, due to the absence of cooperation and implementation with the banks for online transaction, the website will stop functioning when the customers proceed to the payment page. Aside from that, the amount of coffee beans in stock will also not be included when customers are purchasing due to the calculation of huge quantities of our coffee beans.

Bean Bros Wholesaler system has not evolved to the point of becoming an e-commerce system, it is just a website to promote the coffee bean of our own brand, thus our website might be more informative than it should be compared to e-commerce website which only have brief descriptions.

Assumption

The Bean Bros Wholesaler website assumes that all customers are only for business means. Thus, there won't be any home customers who would only buy in small quantities of coffee beans. In addition, our coffee beans are assumed to be restocked when a customer made purchases on our coffee beans.

Not just that, the Bean Bros Website is also to be officiated to sell in bulks of our coffee beans to all coffee shops and retailers, and also be able to produce our own beans within our land. The Bean Bros Wholesaler will also import coffee beans from around the world and sell it to our local customers.

Lastly, Bean Bros Wholesaler website will not charge customers' order directly instead customers will place an order of their coffee bean and the payment will be made face-to-face. The coffee bean will be assumed that have been delivered together when the customer made their payment.

Expected Issues

As for the expected issues, database management might not be as smooth as a genuine wholesaler due to the use of local network such as WAMP. Changes to the designs of the Bean Bros Wholesaler website might be possible in the future and may vary due to the different screen sizes of laptops and computers. The Bean Bros Website's source code will remain in GitHub as a reference and the website will not be published online.

19. References

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20. Appendix

20.1 Minutes of Meeting

Task Name	Start Date	End Date	Priority	Assigned To (Full Name)	Completion Status	Lecturer Comments	Group Leader Comments
System Planning							
Discuss system industry	Mon 10/1/22	Thu 13/1/22	High	Everyone	Done	28/2/22. Completed and shown	Agricultural Industry was chosen instead of Food Industry because we predicted that this industry is a rare among other groups and will let us to think differently.
Assign roles	Thu 13/1/22	Fri 14/1/22	Medium	Everyone	Done	28/2/22. Completed and shown	Yip Zi Xian was assigned as project manager, Kishanraj a/l K.Alagayah was assigned as system analyst, Ong Lit Tsen and Marcus Ong Jin Rong was assigned as programmer.

Delegate tasks	Thu 13/1/22	Fri 14/1/22	Medium	Everyone	Done	28/2/22. Completed and shown	Each tasks needed to complete the proposal documentation have assigned to each group member according to their roles.
Prepare proposal	Fri 14/1/22	Fri 21/1/22	High	Everyone	Done	28/2/22. Completed and shown	Everyone did their tasks as expected. We managed to complete the proposal two days before proposal submission. Additional website draft design created using Figma is included in the appendix as well.
System Analysis							
Analyse system development methodology	Mon 24/1/22	Wed 26/1/22	Medium	Kishanraj a/l K.Alagayah	Done	28/2/22. Completed and shown	Waterfall Methodology is being researched and analysed according to our system. Detailed and with references.
Outline system navigational structure	Wed 26/1/22	Fri 28/1/22	Medium	Ong Lit Tsen	Done	28/2/22. Completed and shown	Complex yet easy-to-understand navigational structure. Completed with three users: admin, guest, and customer

Identify project background	Fri 28/1/22	Sat 29/1/22	Medium	Marcus Ong Jin Rong	Done	28/2/22. Completed and shown	A brief description of the system creation and function. Well concluded.
Determine current problems and brainstorm solutions		Sat 29/1/22	Mon 31/1/22	Medium	Marcus Ong Jin Rong	Done	28/2/22. Completed and shown Compared with current pandemic situation and provided new radical solutions to overcome it
Determine system objectives and scope		Sat 29/1/22	Mon 31/1/22	Medium	Yip Zi Xian	Done	28/2/22. Completed and shown Objectives are determined and extra objectives of the project are stated. Scope is well defined and neat.
System Design							
Discuss system data flow diagrams for Context Diagram and Level 0	Tue 1/2/22	Fri 11/2/22	High	Ong Lit Tsen	Done	28/2/22. Not yet 4/4: Done	Context diagram and Level 0 diagram are very complex and detailed. Every process in the system is included in the diagram.

Discuss system data flow diagrams for Level 1 and define data dictionary	Tue 1/2/22	Fri 11/2/22	High	Everyone	In Progress	28/2/22. Not yet 4/4: Done	Level 1 diagram for each individual is very well designed. The complexity of the diagram depends on and varies based the function available for the process. Data dictionary for each element, external variables, processes, structure, and data.
Create Entity Relationship Diagram	Tue 1/2/22	Fri 11/2/22	High	Everyone	Done	28/2/22. Completed and shown	Entity relationship diagram is clear and easy to understand. All relationship is true and no errors.
Design UI using Figma	Fri 11/2/22	Wed 16/2/22	Low	Yip Zi Xian	Done	28/2/22. In progress and shown	Website design is clean and neat, easy to understand. Customer and guest view are simple while admin view is more technical and complex.

Create actual website using HTML, CSS, and JavaScript	Wed 16/2/22	Sun 27/2/22	High	Marcus Ong Jin Rong & Ong Lit Tsen	Done	28/2/22. In progress and shown 4/4: Done	Website created and compiled using GitHub repository. Interface has minor changes compared to proposed interface, but there are no major changes. Website only can be presented in maximized window.
Connecting website to database using PHP and SQL	Sun 27/2/22	Sat 12/3/22	Very High	Marcus Ong Jin Rong & Ong Lit Tsen	Done	4/4: Shown and Completed	All html files are converted to php file in order to connect to the database to display all the data available in the database. Some files that do not need php will remain the html file.
Discuss system flowchart	Fri 11/2/22	Sun 13/3/22	Medium	Everyone	Done	4/4: Shown and Completed	Flowcharts are assigned to all members. Since we discuss that our system will have sixteen functions, thus we split four flowcharts for each member as individual part. Flowcharts will be in drawio file format.

System Implementation							
Write user manual with screen design and report design	Wed 16/3/22	Mon 21/3/22	Medium	Marcus Ong Jin Rong & Ong Lit Tsen	In Progress	4/4: In progress	Screen design and report design are very well explained and detailed. User manual is still under progress.
Include source code to documentation	Wed 16/3/22	Mon 21/3/22	Medium	Yip Zi Xian	Done	4/4: In progress	Source code are implemented for php backend functions like add, edit, delete, login, signup, and etc as these are the most important compared to HTML, CSS and JavaScript.
Run alpha testing	Mon 21/3/22	Thu 24/3/22	Very High	Everyone	Done	4/4: Shown and Completed	Code works smoothly for some part and some issues regarding session appears in some php file due to accidental variable changes.
Debug errors	Thu 24/3/22	Sun 27/3/22	Very High	Marcus Ong Jin Rong & Ong Lit Tsen	Done	4/4: Shown and Completed	Debug the variable changes for session and included session php file in each php file to avoid session variable get overridden.

Run beta and final testing	Sun 27/3/22	Wed 30/3/22	Very High	Everyone	Done	4/4: Shown and Completed	Code works smoothly for all part and no errors. Database can be connected through localhost and updated data are saved to database.
Debug errors and finalise system	Wed 30/3/22	Sat 2/4/22	Very High	Marcus Ong Jin Rong & Ong Lit Tsen	Done	4/4: Shown and Completed	No debug is required. However, the system is run a few times to check are there any leaks or bugs left out.
System Check-up	Sat 2/4/22	Thu 7/4/22	Low	Kishanraj a/l K.Alagayah	Done	4/4: Shown and Completed	The final checking of the whole system including the correct information of the coffee bean and article are taken from real coffee website with author cited.

System Security, Support & Maintenance

Present and introduce system						4/4: Done	
Observe system performance						4/4: Done	

Update system design and database						4/4: Done	
Improve system usability and simplicity						4/4: Done	

20.2 Installation Guide for Bean Bros Wholesaler System

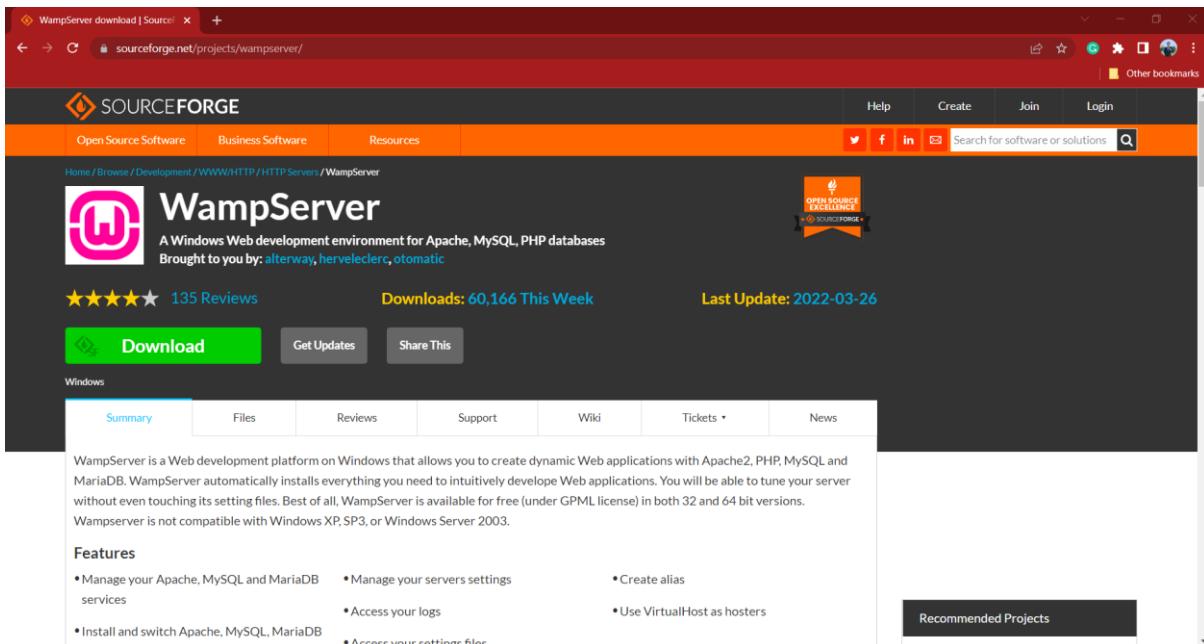
This installation guide will only cover on how to install Bean-Bros Wholesaler System from GitHub and run it as localhost using WAMP server.

Prerequisite

Visual Studio Code is installed. Knowledge on PhpMyAdmin interface.

WAMP Server Installation

1. Go to this website via this link provided: <https://sourceforge.net/projects/wampserver/>



The screenshot shows the SourceForge project page for WampServer. The page has a dark theme with orange highlights. At the top, there's a navigation bar with links for Help, Create, Join, and Login. Below the header, there's a search bar and social media links for Twitter, Facebook, LinkedIn, and YouTube. The main content area features the WampServer logo (a stylized 'W' icon) and the text "WampServer - A Windows Web development environment for Apache, MySQL, PHP databases". It mentions that it's brought to you by alterway, herveclerc, otomatic, and has 135 reviews. The "Downloads: 60,166 This Week" and "Last Update: 2022-03-26" are also displayed. A large green "Download" button is prominent. Below the download section, there's a summary tab and other tabs for Files, Reviews, Support, Wiki, Tickets, and News. A detailed description of WampServer follows, mentioning it's a Web development platform for Windows that supports Apache2, PHP, MySQL, and MariaDB. It automatically installs everything needed for web development. The "Features" section lists several bullet points related to managing servers, databases, and creating aliases. A "Recommended Projects" sidebar is visible on the right.

2. Find a suitable download file, either 32-bits or 64-bits, to be installed into your device.
3. After the file has downloaded successfully, double-click on the file, and run it with default settings.
4. Now, you should have WAMP server installed in your device.
5. Start the WAMP server in your device and wait for a few minutes. When you see a green icon in your sidebar, WAMP server is already running in the background on localhost.



6. Go to any browser and type localhost:8080 or 127.0.0.1:8080 to access PhpMyAdmin.

The screenshot shows the Wampserver homepage at 127.0.0.1:8080. It displays the following information:

- Wampserver** logo
- Apache Version: 2.4.51 - Documentation Apache
- Server Software: Apache/2.4.51 (Win64) PHP/7.4.26 - Port defined for Apache: 8080
- PHP Version: 7.4.26 - Documentation PHP
- Loaded Extensions:

 - apache2handler, bz2, calendar, com_dotnet, Core, ctype, curl, date
 - dom, bzmath, filter, gd, gettext, gmp, hash, iconv
 - imap, exif, fileinfo, json, ldap, libxml, mbstring, mysqli, openssl
 - pcre, intl, PDO, pdo_mysql, pdo_sqlite, Phar, readline, reflection, session, SimpleXML
 - soap, sockets, SPL, sqlite3, standard, tokenizer, xdebug, xml, xmlreader
 - xmlrpc, xmlwriter, xsl, Zend OPCache, zip, zlib

- MySQL Version: 5.7.36 - Port defined for MySQL: 3306 - default DBMS - Documentation MySQL
- MariaDB Version: 10.6.5 - Port defined for MariaDB: 3307 - Documentation MariaDB - MySQL - MariaDB
- Tools**: phpinfo(), xdebug_info(), PhpSysInfo, Add a Virtual Host
- Your Projects**: Code Works
- Your Aliases**: adminer, PhpMyAdmin 5.1.1, PhpMyAdmin 4.9.7
- Your VirtualHost**: localhost:8080
- Wampserver Forum

7. Locate Your Aliases and click on PhpMyAdmin 5.1.1 or the latest version.

8. The default username and password of PhpMyAdmin is root and there is no password required.

The screenshot shows the phpMyAdmin login page at 127.0.0.1:8080/phpmyadmin/. It features:

- phpMyAdmin logo
- Welcome to phpMyAdmin
- Language dropdown set to English
- Log In button
- Username: root
- Password: (empty)
- Server choice: MySQL
- Go button

9. Click go to access your list of databases.

Source Code Installation

1. Go to this website to download Git into your device: <https://git-scm.com/downloads>
2. Find a suitable file to be downloaded.

The screenshot shows the 'Downloads' section of the Git website. It features a sidebar with links for About, Documentation, Downloads (selected), GUI Clients, Logos, and Community. The main content area has sections for 'Downloads' (with links for macOS, Windows, and Linux/Unix), 'GUI Clients' (with a note about built-in tools and third-party options), 'Logos' (with a link to view logos), and 'Git via Git' (with instructions for cloning the repository). A large monitor icon in the center displays the 'Latest source Release' version 2.35.1 and a 'Download for Windows' button.

3. After downloading the file, double-click the file and run it on default settings.
4. Open Visual Studio Code and also terminal tab.
5. Type in “git clone <https://github.com/NightfuryEquinn/Bean-Bros-Wholesaler.git>”
6. After a few minutes, all the files required to run Bean Bros Wholesaler System will be installed.
7. If there is an error, please refer to <https://github.com/NightfuryEquinn/Bean-Bros-Wholesaler.git> to extract all the files directly from GitHub.

The screenshot shows the GitHub repository page for 'Bean-Bros-Wholesaler'. The repository is marked as 'Private'. It has 1 star and was updated 3 hours ago. The description reads: 'Diploma Final Year Project Assignment with Kishanraj a/ K.Alagayah, Marcus Ong Jin Rong, and Ong Lit Tsen'. The page includes standard GitHub navigation and repository information.