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CRUNCHY SWEETS

1. Introduction

1.1 Purpose

This document outlines the software requirements for an online platform dedicated to selling homemade sweets. The aim of this system is to allow customers to explore, purchase, and receive homemade sweets via the internet while enabling the business to organize inventory, process orders, and maintain customer data.

1.2 Scope

This platform will concentrate on selling homemade sweets directly to consumers. Key features will include a product catalogue, order management, customer account administration, and an integrated payment processing system. What's more, customer information will be stored for future use and personalized marketing efforts.

1.3 Definitions, Acronyms, and Abbreviations

SRS: Software Requirements Specification

UI: User Interface

API: Application Programming Interface

1.4 Overview

The system will provide a front-end interface for customers and a back-end interface for the business owner. The platform will assist browsing for sweets, placing orders, handling payments, and storing customer information.

1.5 Revenue Model

A revenue model describes how your company will make money. This is a well-defined and organised income strategy that may be used for your online handmade confectionery business

1.5.1 Direct Sales

- Use an online marketplace to sell confections.
- Online shoppers peruse, choose, and buy candies.
- For instance, LKR 7,300 chocolate box.

1.5.2 Bulk Order for Events

- For events like festivals or weddings, offer personalised bulk ordering.
- For instance, ten wedding favour boxes cost LKR 18,250.

1.5.3 Seasonal Offers

- Offer unique festive packages for occasions like Valentine's Day and Christmas.
- For instance, a cheap LKR 10,950 Christmas Bundle.

1.5.4 Personalized Products

- Include opportunities for customisation (such as unique packaging or forms).
- For instance, custom packing costs LKR 1,825.

1.5.5 Business Collaboration

- Collaborate with cafes or stores to sell your candies again.
- For instance, sell 100 boxes at wholesale for LKR 182,500.

1.5.6 Deliver Charges

- For minor items, charge a fixed delivery price; for larger orders, shipping is free.
- For instance, orders under LKR 18,250 incur a LKR 1,825 fee.

1.5.7 Gift Card

- Give clients gift cards that can be redeemed.
- For instance, LKR 9,125, LKR 18,250, or LKR 36,500 gift cards.

2. General Description

2.1 Product Perspective

The online homemade sweets platform will function as an independent system, with possible integrations for payment gateways and customer communication methods (such as email and SMS).

2.2 Product Functions

Essential functions include:

Displaying a sweets catalogue managing customer accounts. Processing orders and payments.

Maintaining customer details for future interaction and order history.

2.3 User Characteristics

End-users: Customers interested in buying homemade sweets.

Administrator: The business owner overseeing orders, inventory, and customer information.

2.4 Constraints

Compliance with privacy and data protection laws (e.g., GDPR). The system must accommodate high traffic volumes, particularly during holiday seasons.

2.5 Assumptions and Dependencies

Stable internet access for users. Integration with a secure payment processing system.

3. Specific Requirements

3.1 Functional Requirements

3.1.1 Product Catalogue

The system shall present available sweets, including descriptions, ingredients, and pricing.

The system shall permit filtering and sorting of sweets based on user preferences (e.g., price, ingredients).

3.1.2 Customer Account Management

The system shall allow users to create and manage their accounts. The system shall enable users to view their purchase history and modify personal information.

3.1.3 Order Management

The system shall enable customers to add products to their shopping cart. The system shall calculate the total order cost, taking into account any applicable discounts or delivery charges. The system shall allow users to confirm their orders and process payments.

3.1.4 Customer Data Storage

The system shall keep customer contact details, preferences, and order history on record.

The system shall securely save payment details for future purchases (with the user's consent). The system shall support data retrieval for marketing purposes (e.g., sending promotional offers).

3.1.5 Payment Processing

The system shall connect with a payment gateway to ensure secure transactions. The system shall offer various payment options (e.g., credit card, mobile payment).

3.1.6 Notifications

The system shall inform customers of order status updates via email or SMS. The system shall send regular promotional offers to customers customized to their preferences.

3.2 Non-Functional Requirements

3.2.1 Performance Requirements

The system shall accommodate up to 1,000 simultaneous users. Page loading times shall not exceed 3 seconds.

3.2.2 Security Requirements

The system shall implement encryption to protect customer data. The system shall require user authentication for account access.

3.2.3 Usability Requirements

The UI shall be user-friendly and mobile-responsive. The system shall offer a simplified checkout experience.

3.2.4 Reliability Requirements

The system shall achieve 99.9% uptime. The system shall provide mechanisms to handle errors in case of transaction failures.

4. External Interface Requirements

4.1 User Interfaces

The UI shall feature a clear navigation bar, product presentation, and an easy-to-access account section. Views for mobile and desktop shall be optimized.

4.2 Hardware Interfaces

Compatible with standard web browsers and mobile devices.

4.3 Software Interfaces

Integration with an external payment gateway. Integration with an email or SMS service for notification purposes.

5. Other Requirements

5.1 Legal and Regulatory Requirements Adhere to data protection regulations.

Comply with tax and e-commerce laws.

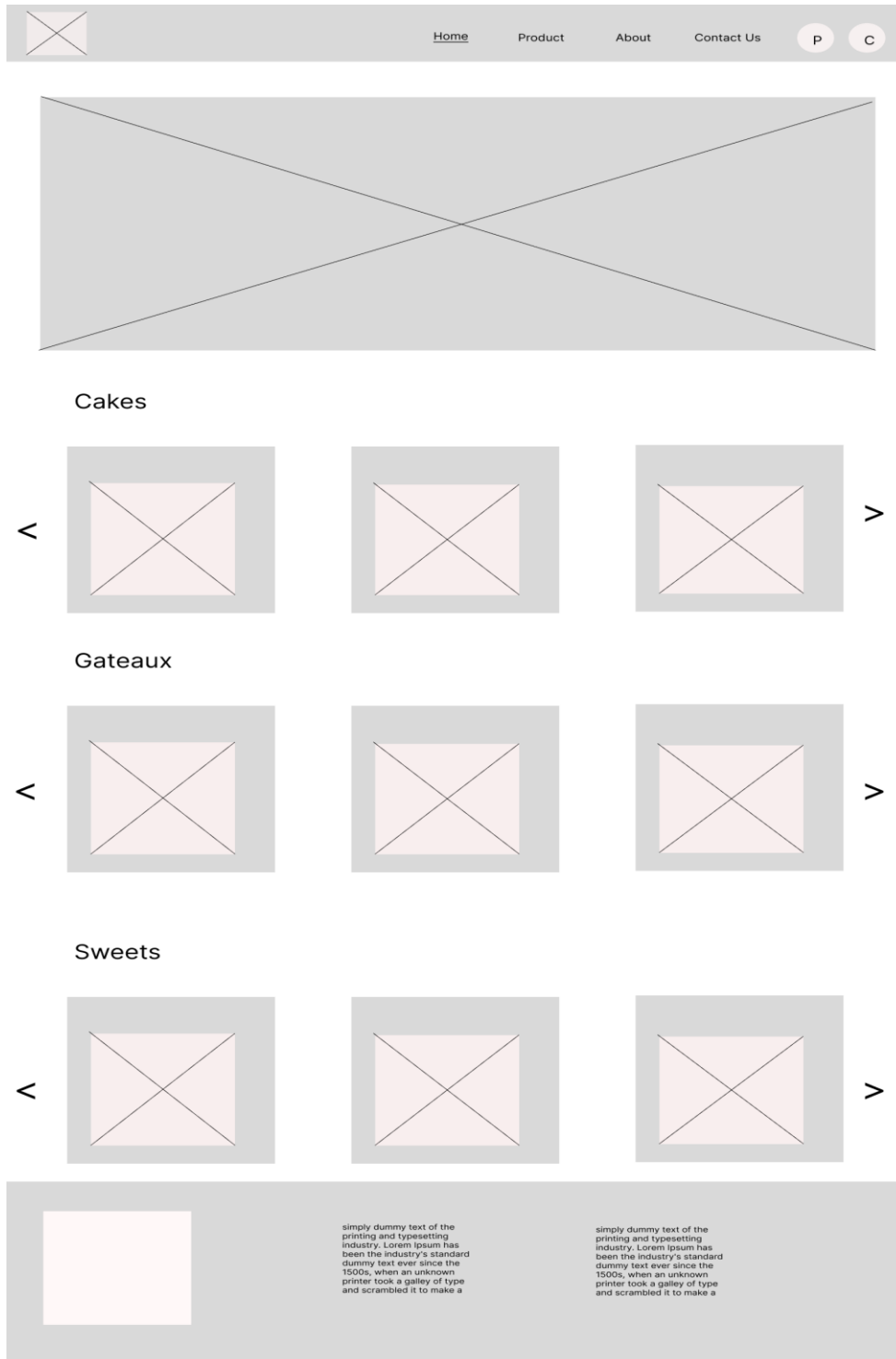
Appendix A: Glossary

Customer Profile: A digital record containing personal information and the order history of the customer.

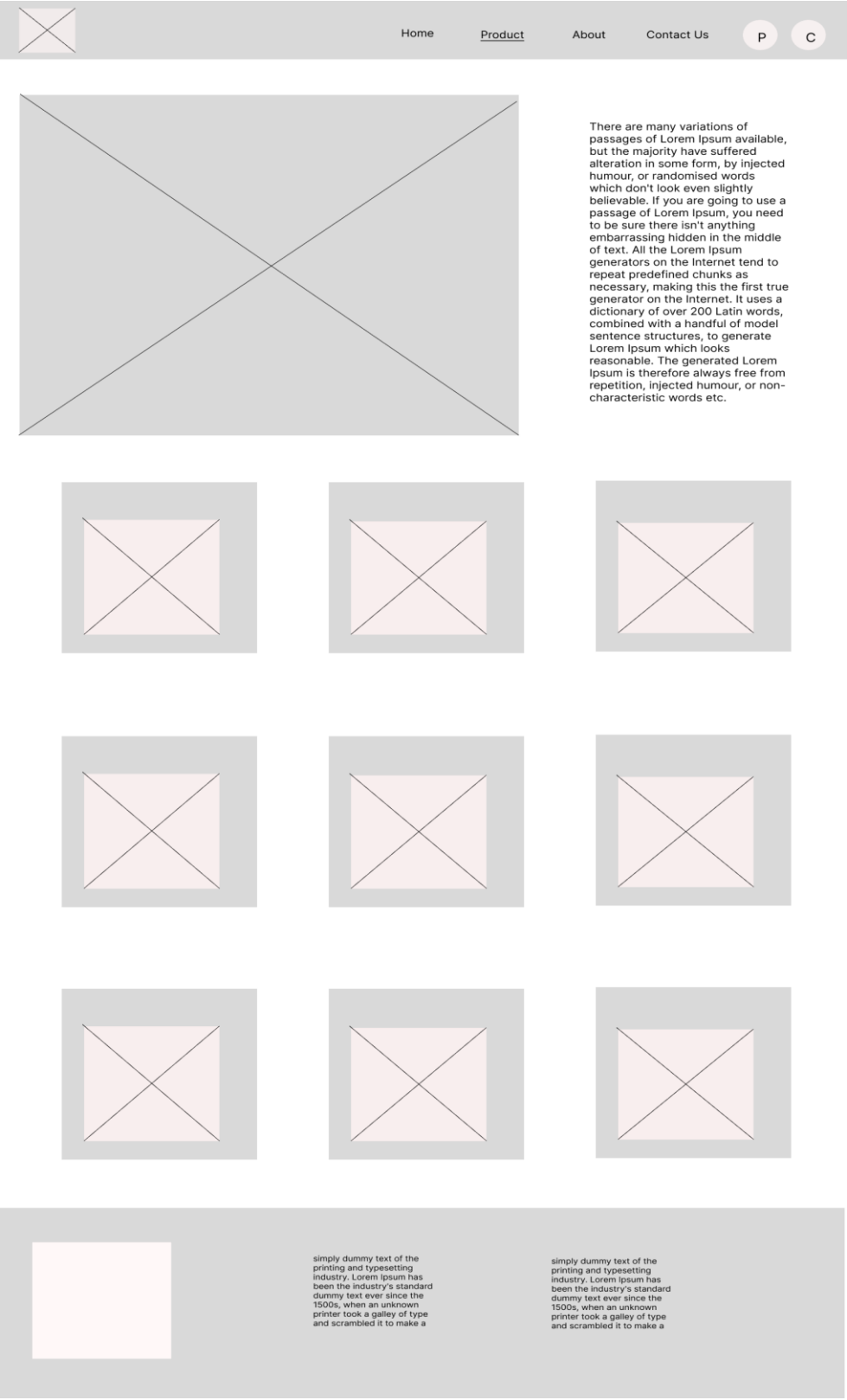
Order Management System (OMS): A module responsible for order creation, tracking, and fulfilment.

6. Wire Frames

6.1 Home Page



6.2 Product Page



6.3 Product Description Page

[Home](#) [Product](#) [About](#) [Contact Us](#)

P

C

Product Name

Product Price

Product Discription

Quantity

SubTotal

Add to cart

Buy Now|xxx

Cart Totals

SubTotal	XXXX
Shipping	XXXXXXXXX
Total	XXXX

Proceed to checkout

Coupon

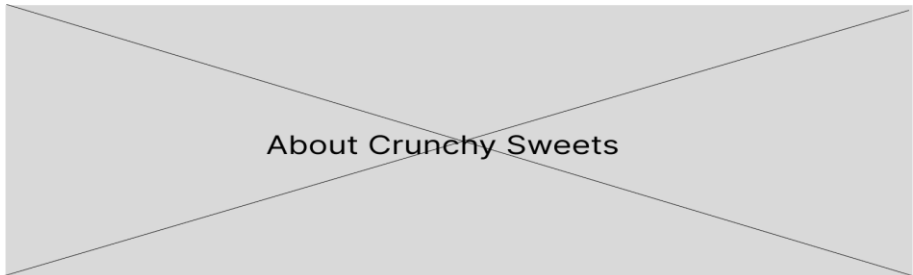
Coupon Code

Apply Coupon

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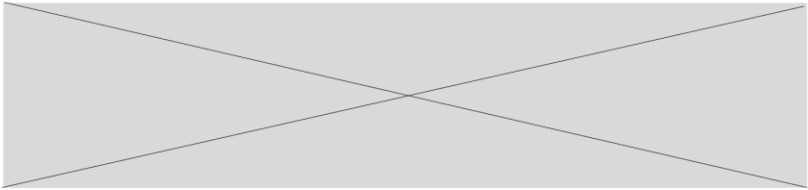
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6.4 About Page



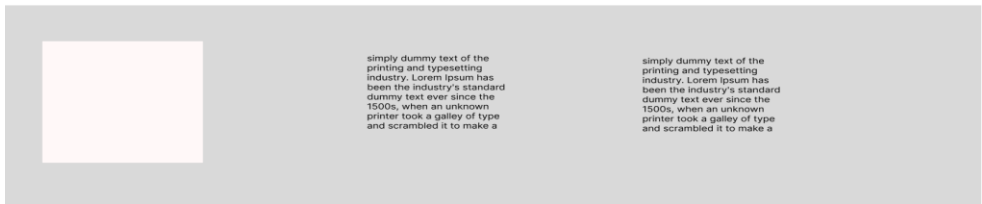
About Crunchy Sweets

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Food Safety Policy

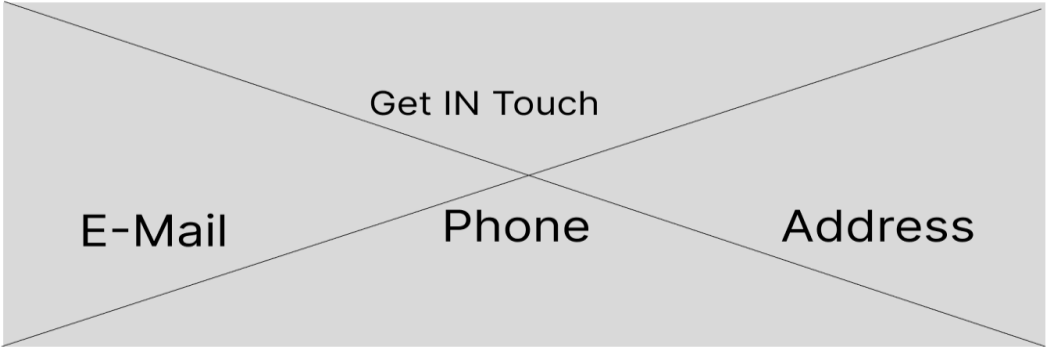
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6.5 Contact Us Page



**Get In Touch
right here**

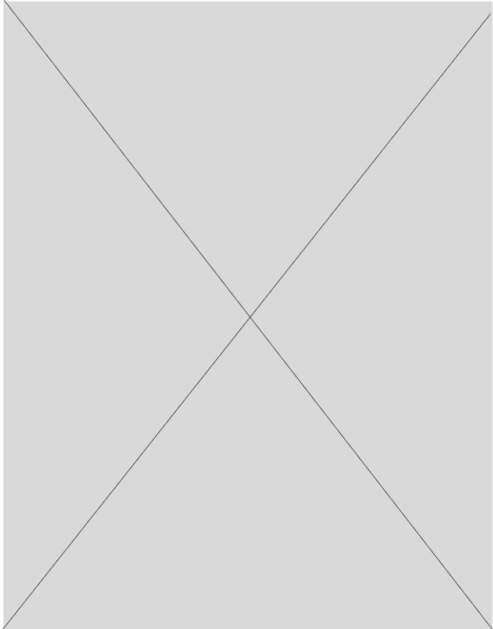
Your Name

E-Mail

Phone Number

Your Message...

Send Message



6.6 Login Page

[Home](#)[Product](#)[About](#)[Contact Us](#)[P](#)[C](#)

Welcome to CRUNCHY SWEETS

Email address

Password

Forgotten Your Password?

[Log in](#)


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6.7 Sign Up Page

[Home](#)[Product](#)[About](#)[Contact Us](#)[P](#)[C](#)

SIGN UP NOW

First Name

Last Name

Mobile Number

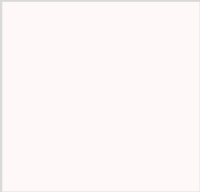
Email address

Password

Conform Password

☐ **i agree theme and conditions**

[Login unto your account](#)

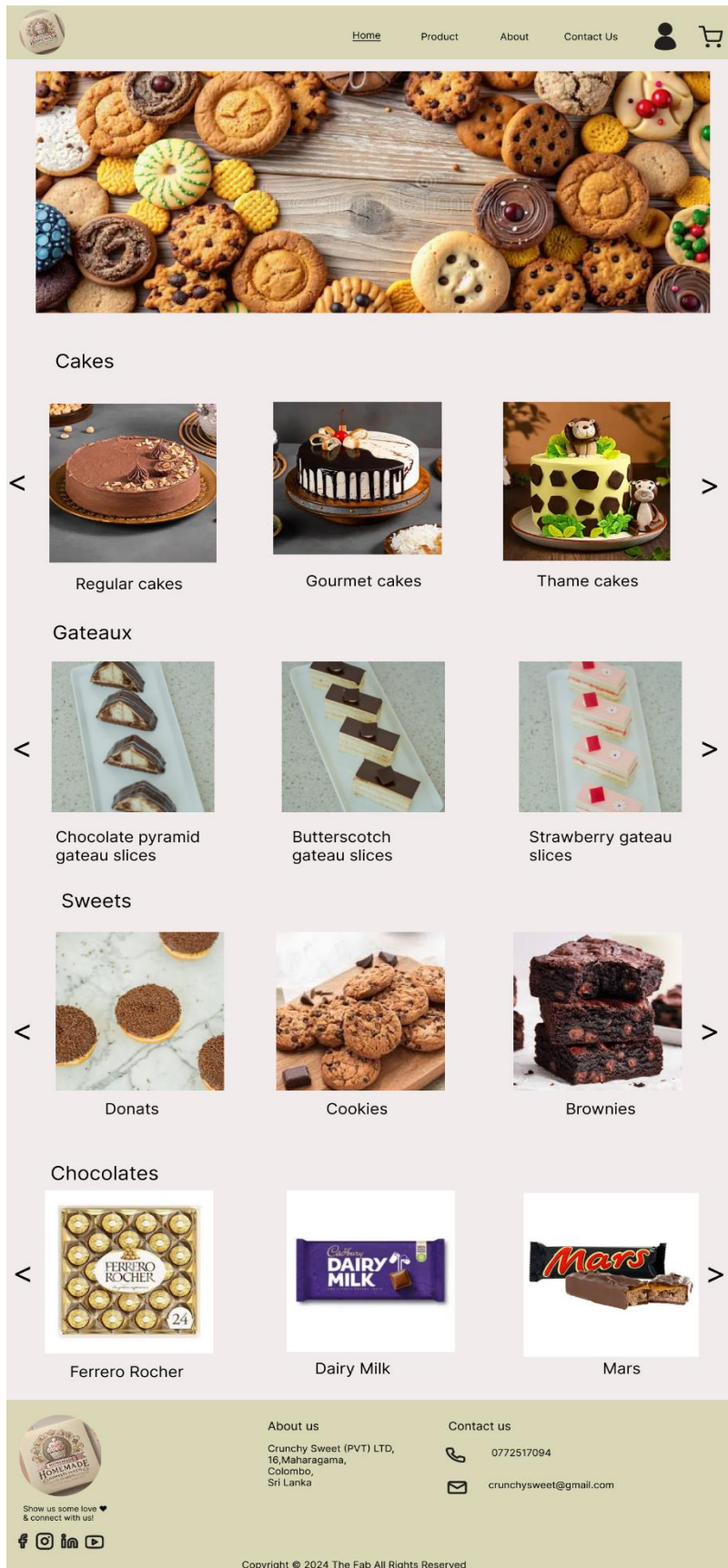


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7.UI Mock-ups



7.1 Home Page




7.2 Product Page



[Home](#) [Product](#) [About](#) [Contact Us](#)




Home>>Chocolate



Chocolate, a beloved treat enjoyed by people of all ages, has a rich and fascinating history. Its roots trace back to ancient Mesoamerican civilizations like the Maya and the Aztecs, who revered the cacao bean as a gift from the gods. They used it to create a bitter, frothy beverage that was consumed during ceremonies and as a source of energy.

The arrival of chocolate in Europe in the 16th century revolutionized its consumption. The addition of sugar, milk, and other flavorings transformed the bitter drink into a delectable treat. Over the centuries, chocolate has evolved into a diverse range of products, from bars and candies to beverages and baking ingredients.


Dairy milk chocolates



Cadbury Dairy Milk Fruit and Nut Chocolate Bar, 180g

LKR 2,250


Add to cart



Cadbury Dairy Milk Chocolate Bar, 360g

LKR 2,850

Add to cart




Cadbury Dairy Milk Mint Chocolate Bar 180g

LKR 2,205

Add to cart


KitKat chocolates



Nestle Kitkat Cereal 330G

LKR 3,750


Add to cart



Kitkat 12 Packs 204G

LKR 2,250

Add to cart




Kitkat 4F X 4Pack 166G

LKR 1,750

Add to cart


Mars chocolates



MARS Chocolate Bar 51g

LKR 390


Add to cart



MARS Chocolate Fun Size Bars Multipack 19x18g

LKR 110


Add to cart







MARS Protein Chocolate Bar 50g

LKR 1,200

Add to cart




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


About us

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Sri Lanka

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 0772517094



 crunchysweet@gmail.com

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16

7.3 Product Description Page





Cadbury fruit & nut 160g

LKR 2,250

Cadbury Dairy Milk Fruit & Nut block is a delicious combination of almonds and sultanas in dairy milk chocolate.

from Cadbury Malaysia

Quantity

- 1 +

SubTotal

LKR 2,250.00


Add to cart

Buy now|2,250

Cart Totals


SubTotal	2,250
Shipping	xxxxxxxx
Total	2,250

Proceed to checkout





 Coupon

Coupon Code

Apply Coupon




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7.4 About Page



HomeProductAboutContact Us






ABOUT

The realm of crunchy sweets is a delightful blend of sweet flavors and satisfying textures. This category encompasses a wide range of treats, from classic candies to innovative snacks. To thrive in this competitive market, entrepreneurs must prioritize product innovation, quality assurance, effective marketing, and strategic distribution. Experimenting with unique flavors, novel textures, and healthier alternatives can help differentiate products and attract a wider audience.

To ensure success, businesses must maintain strict hygiene standards, source high-quality ingredients, and implement rigorous quality control measures. Effective marketing strategies, including social media campaigns and influencer partnerships, can help build brand awareness and drive sales. Additionally, understanding consumer trends, embracing sustainable practices, and adapting to changing market conditions are crucial for long-term success in the crunchy sweets industry.




Food Safety Policy

We at Crunchy Sweets (Pvt) Ltd, strive to be recognized as a manufacturing best quality cakes, gateaux, pastries, bakery products, ready to eat meals, beverages & providing outdoor catering services.





We also strongly believe that food safety can be assured through the combined effort of all parties participating in the process. Strong management commitment is shown through the provision of required infrastructure facilities, equipment and human resources with proper training.

Food Safety Management System is implemented with the support of appropriate documentation and records. All identified hazard are controlled through the implementation of hygiene control operations and HACCP plans, conforming statutory and regulatory requirements, authentic product requirements with mutually agreed food safety requirements of customers and consumers. Food safety policy is communicated to internal & external interested parties.

Implementation of the ISO 22000:2018 Food Safety Management System is checked periodically through planned verification and management reviews with a view to improve the system. Food Safety Management System is periodically updated.




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
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7.5 Contact Us Page




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Get In Touch right here


Your Name


E-Mail

Phone Number





Your Message...

Send Message






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7.6 Login Page

[Home](#)[Product](#)[About](#)[Contact Us](#)



Welcome to CRUNCHY SWEETS


Email address

Password





[Forgotten Your Password?](#) [Sign up](#)

[Log in](#)

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7.7 Sign Up Page





Home

Product

About

Contact Us



SIGN UP NOW

First Name

Your Name

Last Name

Your Last Name

Mobile Number

Your Number

Email address

Email address

Password

Password


Conform Password

Conform Password

☐ i agree theme and conditions


Sign up


[Login unto your account](#)




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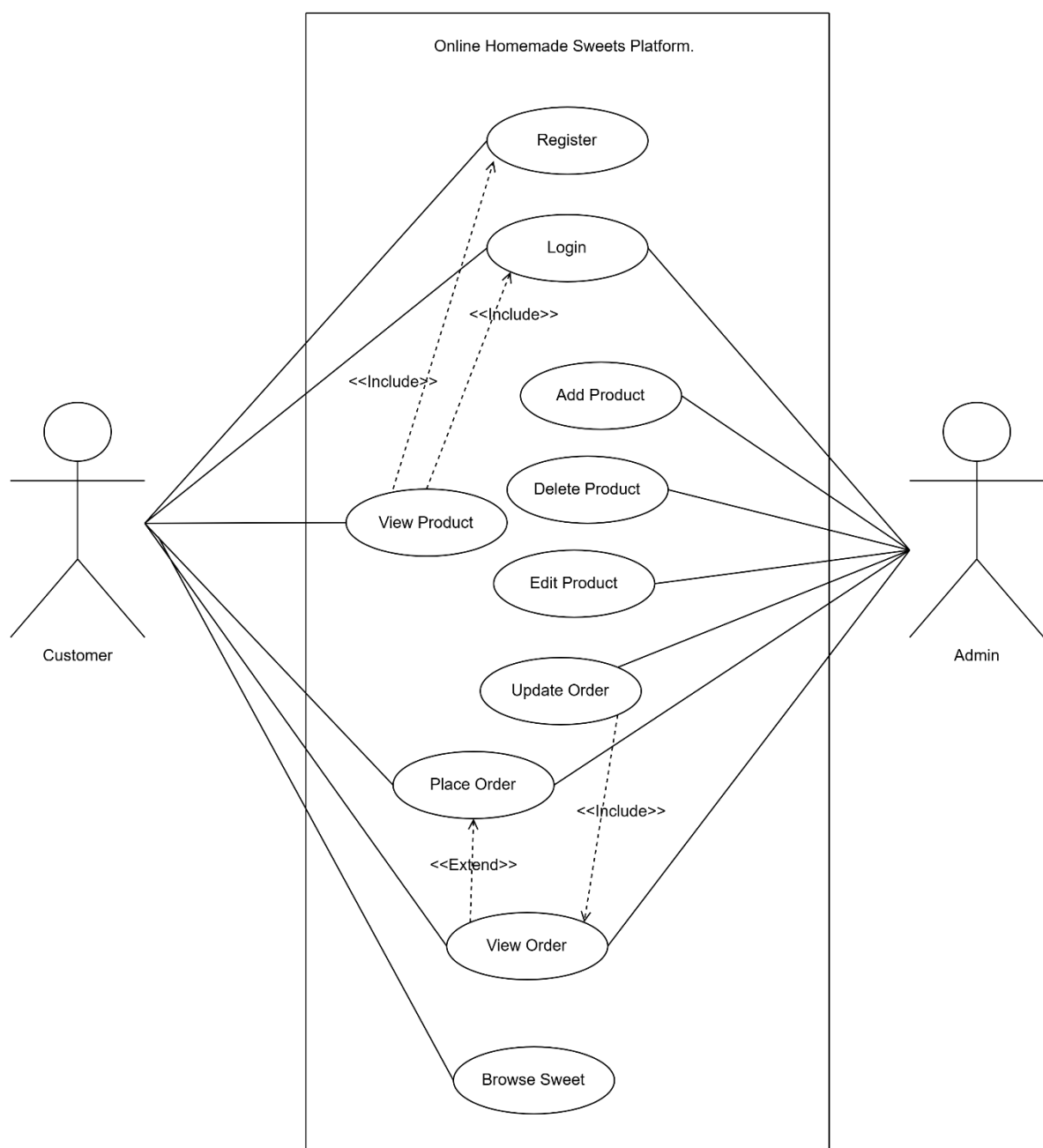
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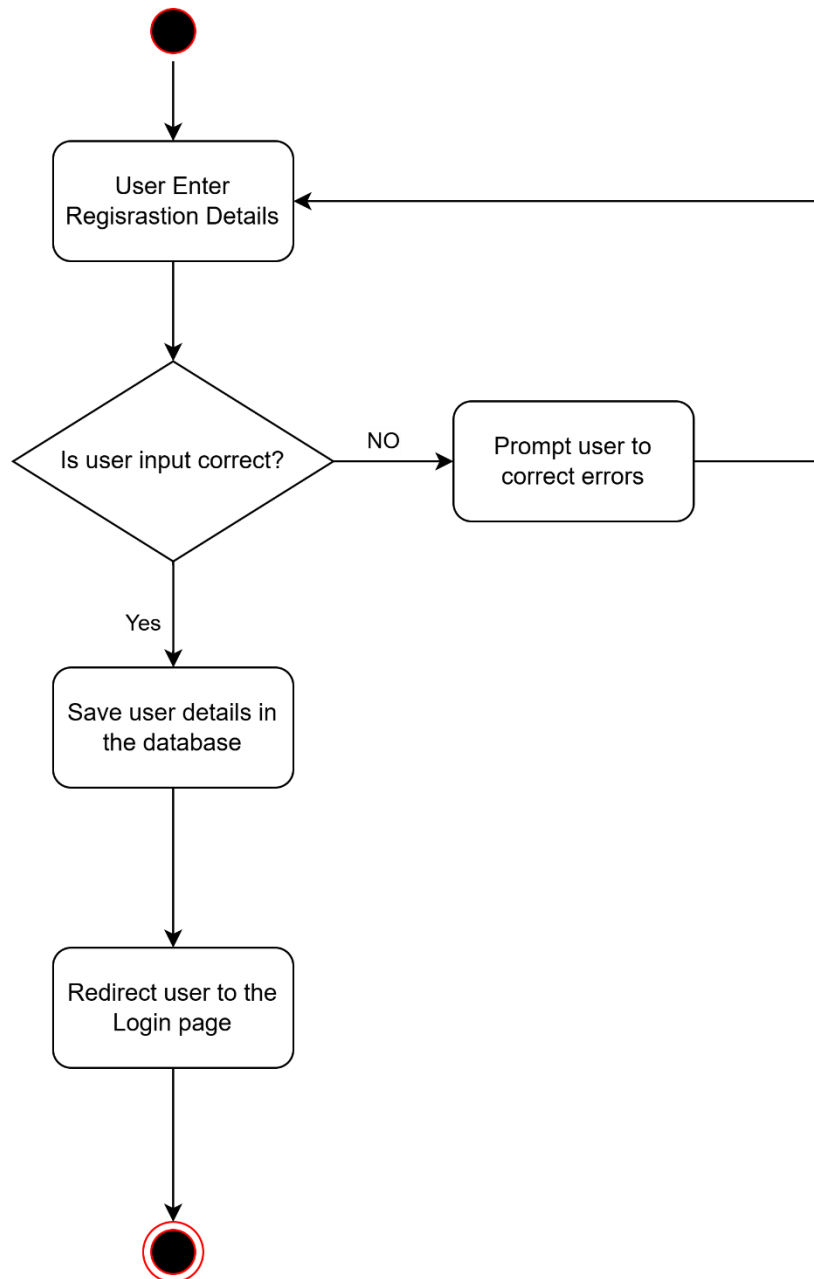
8.UML Diagram

8.1 User Case Diagram

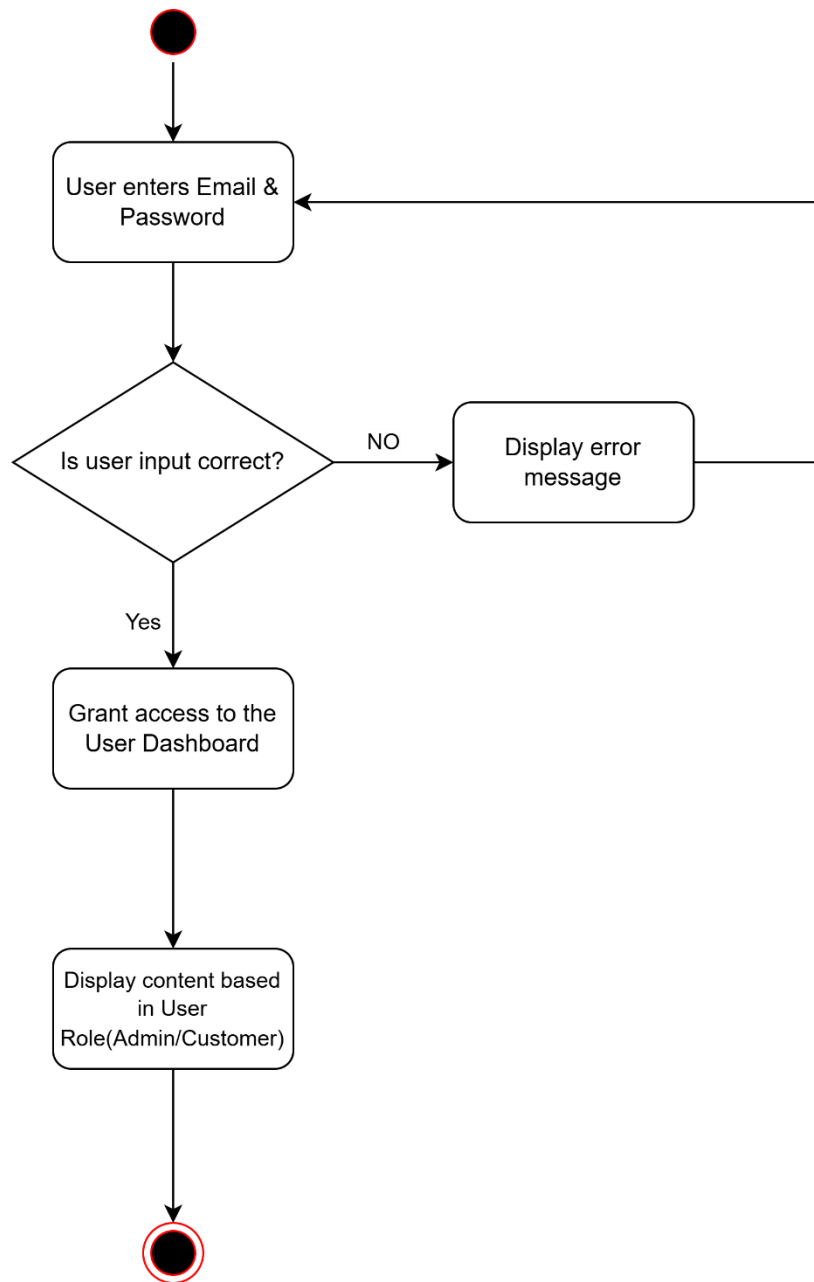


8.2 Activity Diagram

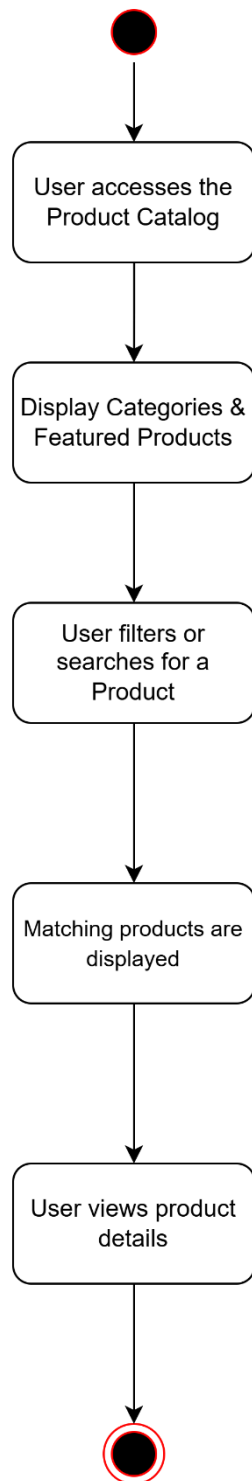
8.2.1 User Registration Activity Diagram



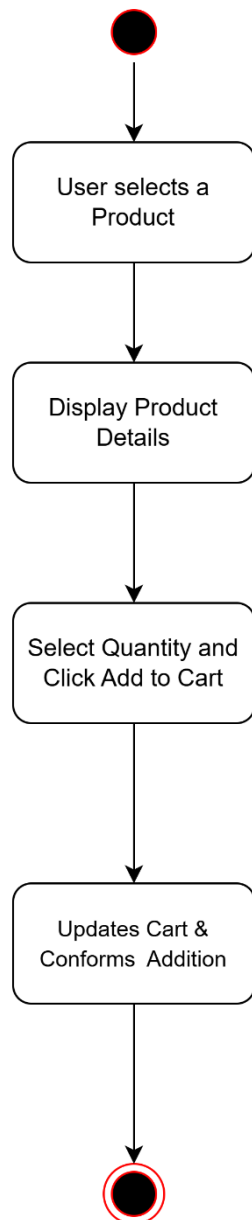
8.2.2 User Login Activity Diagram



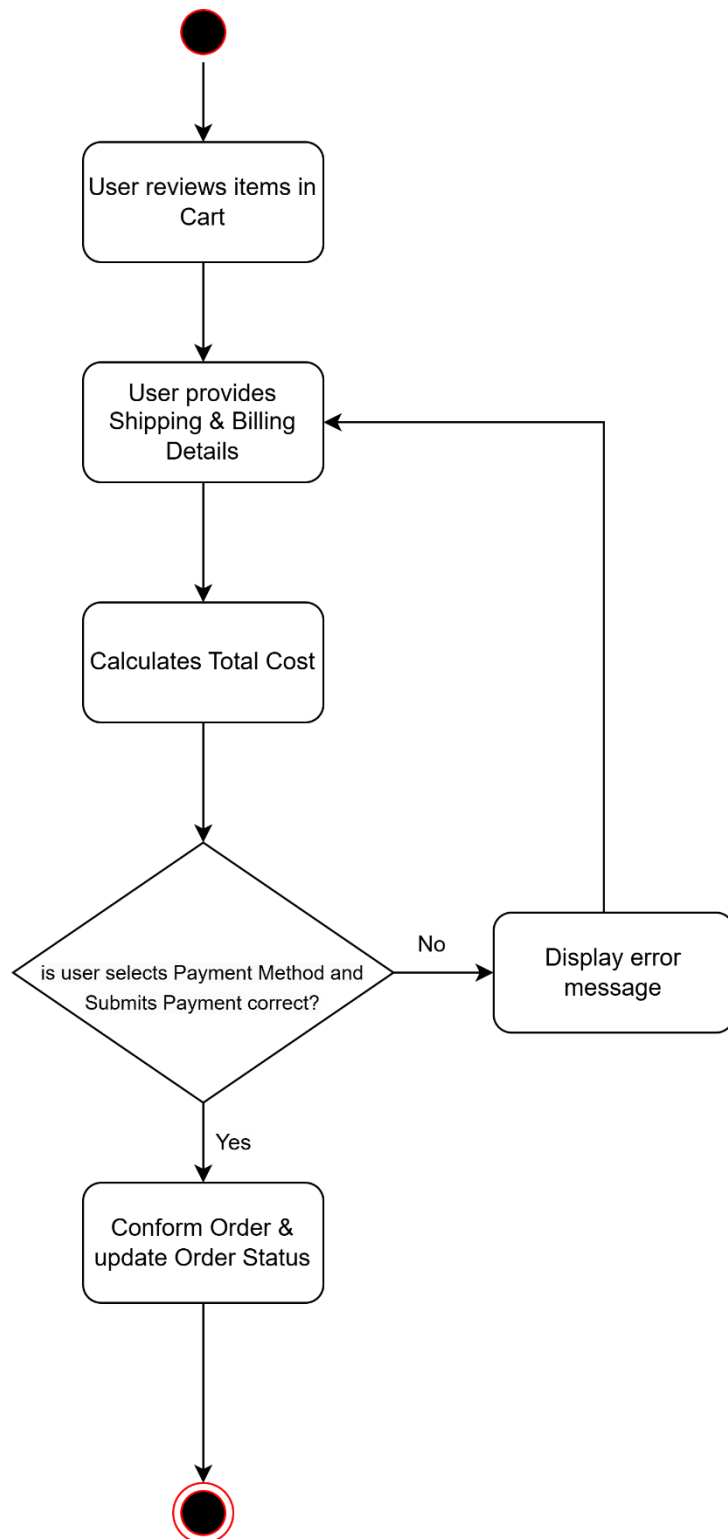
8.2.3 Browsing and Searching Product Activity Diagram



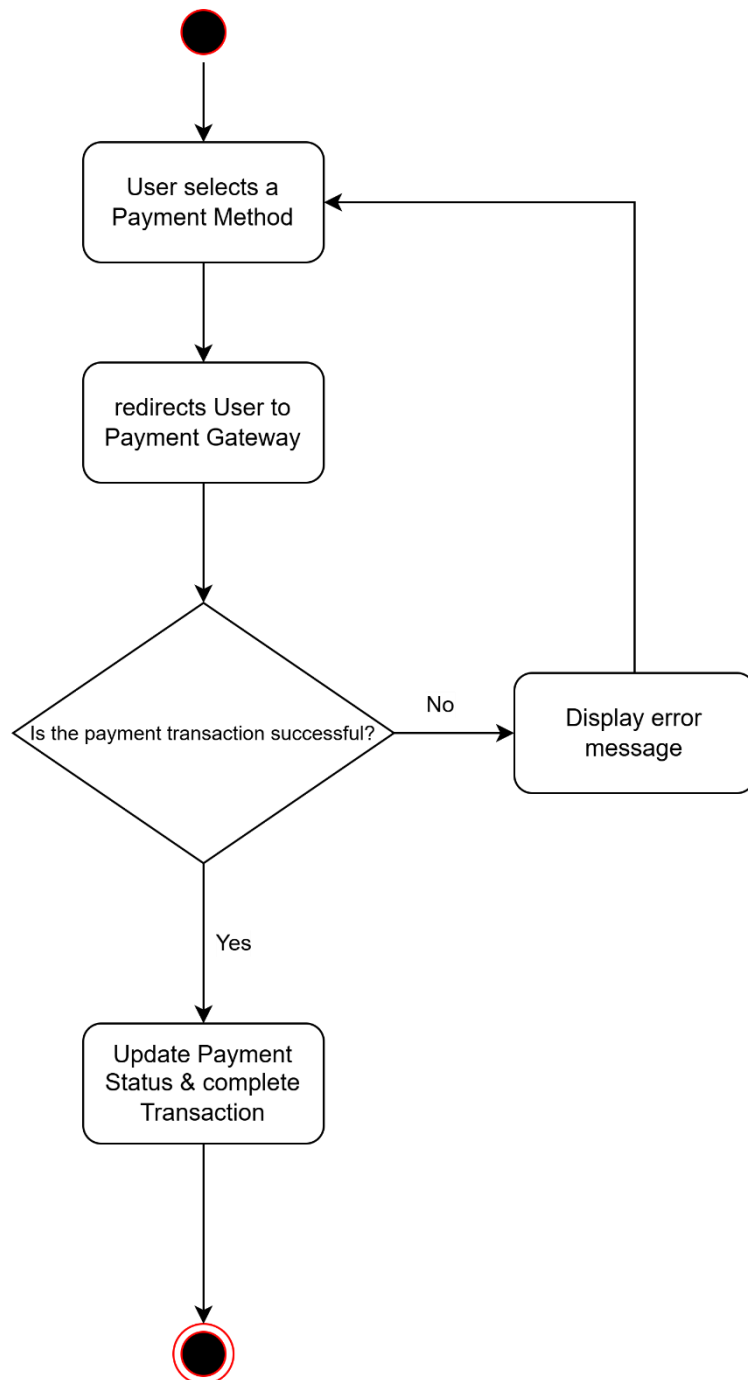
8.2.4 Adding Products to Cart Activity Diagram



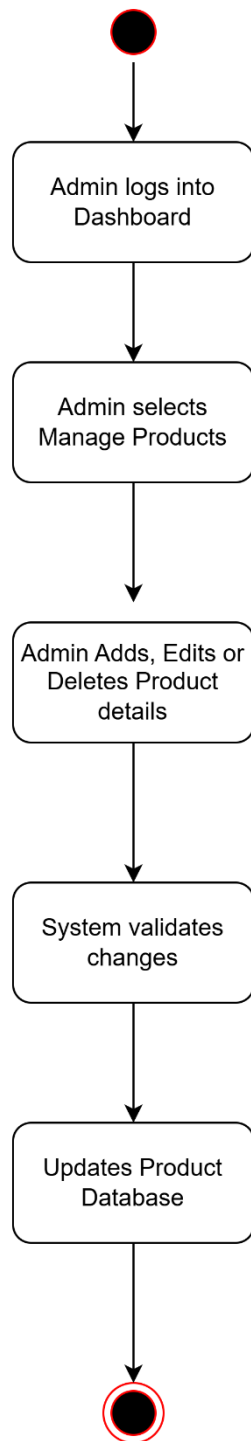
8.2.5 Placing and Order Activity Diagram



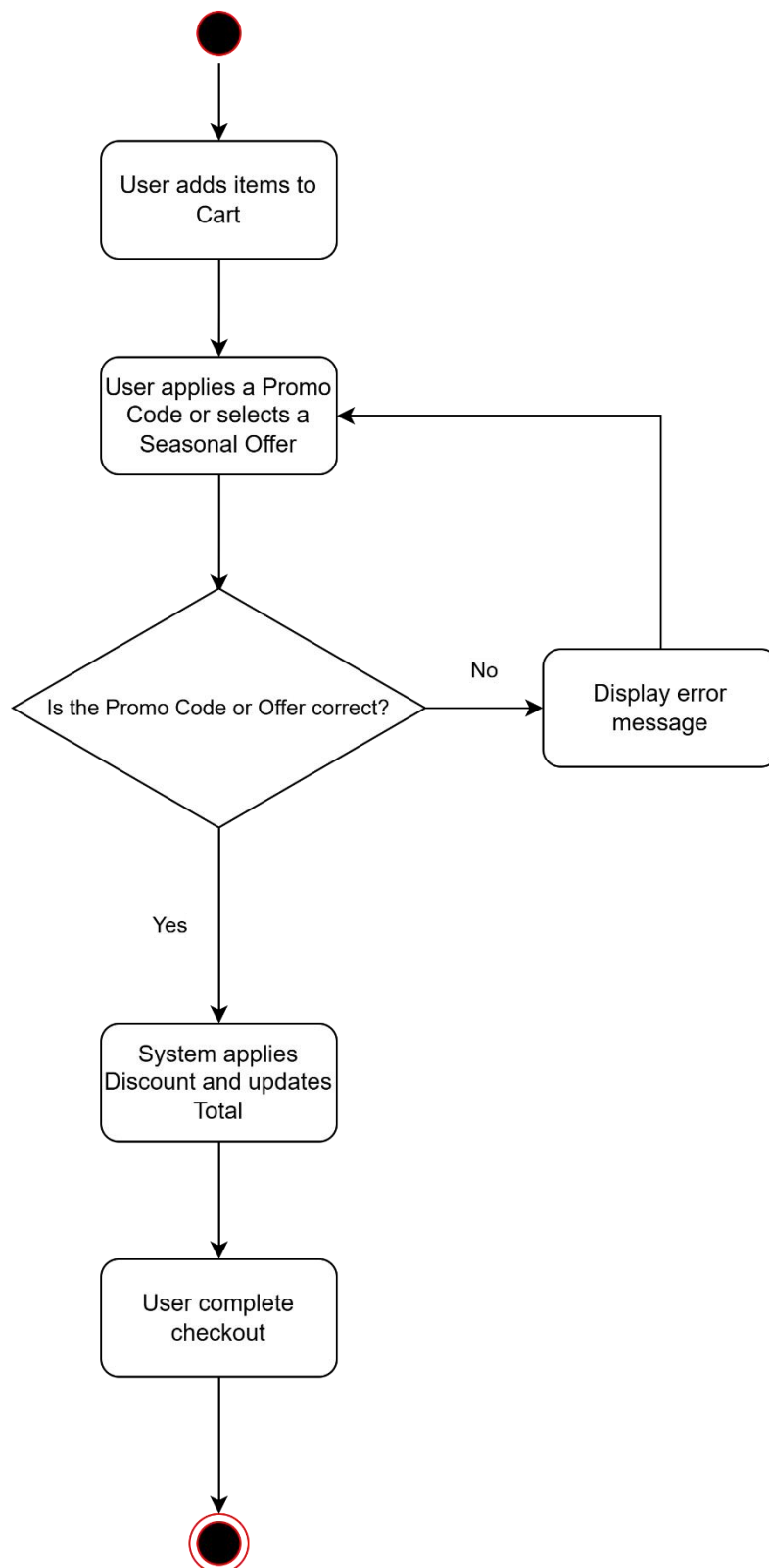
8.2.6 Payment Processing Activity Diagram



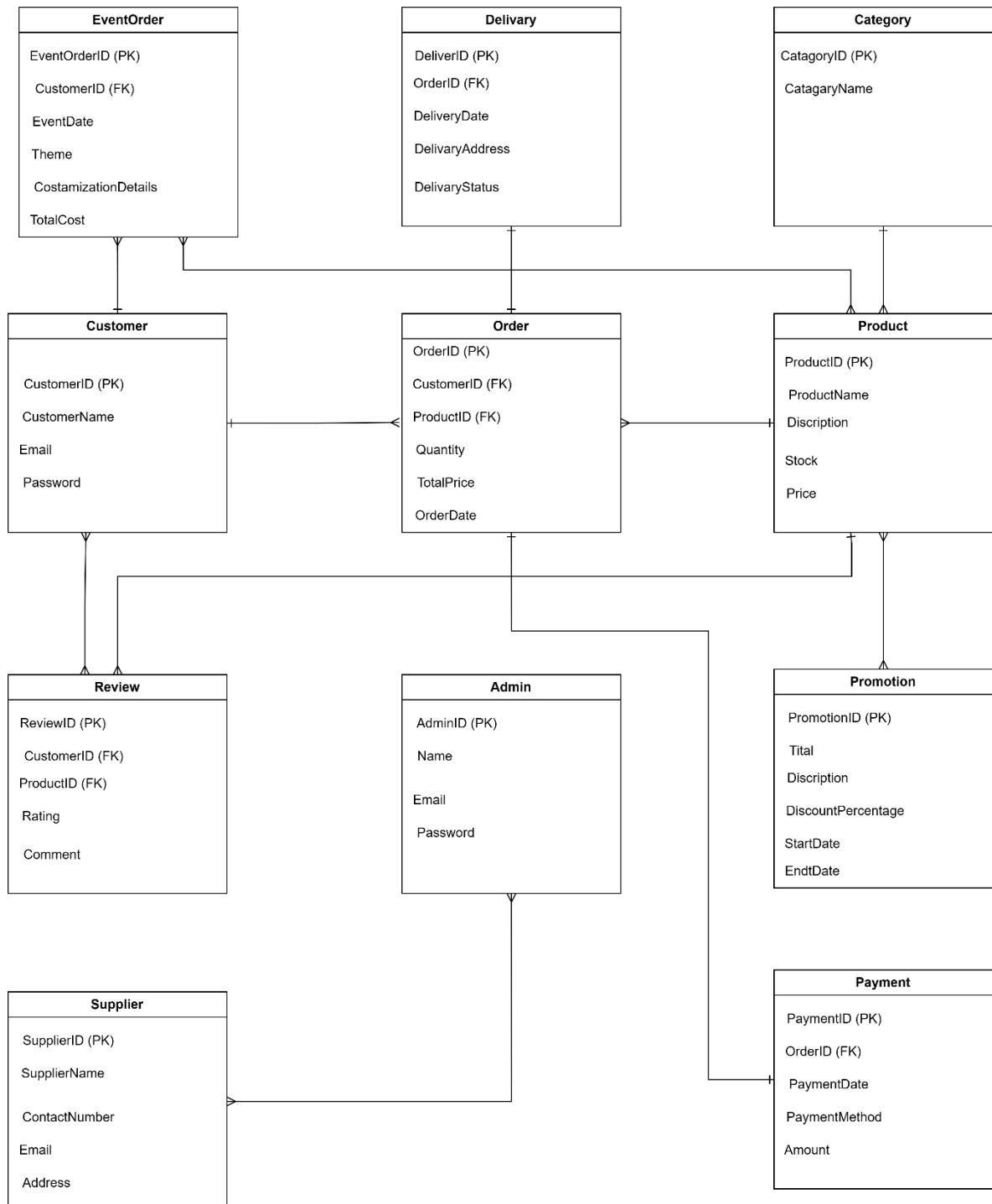
8.2.7 Admin Managing Product Activity Diagram



8.2.8 Seasonal Offer Redeeming Activity Diagram



9.ER Diagram



10. Test Cases

Test Case ID	Description	Prerequisites	Test Procedure	Input Data	Expected Result
TC01	Verify User Sign Up	Database and Sign up page are functional.	1.Navigate to Sign up the page. 2.Enter valid user details. 3.Click "Sign Up".	Name: "Senesh Manuka" Email: " sanu123@gmail.com " Password: sanu@123	User account is created, and a confirmation message is displayed.
TC02	Verify Login Functionality	At least one valid user account exists.	1.Go to the login page. 2.Enter valid credentials. Click "Login".	Email: " sanu123@gmail.com " Password: sanu@123	User is redirected to the Dashboard.
TC03	Add Sweets to Cart	Products are available the catalog.	1.Browse the product catalog. 2.Select a product. 3.Click "Add to Cart".	Product: "donut" Quantity: 2	Select item is added the cart, and the cart is updated.
TC04	Place Order	Payment gateway is functional, and cart is updated.	1.Proceed to checkout. 2.Enter shipping and payment details. 3.Click "Conform Order".	Payment: "Credit Card, Cash on delivery" Shipping Address: "27, Temple RD, Maharagama, Colombo"	Order is placed successfully, and the an order conformation message is shown.
TC05	Manage Inventory	Admin account exists, and inventory system is active.	1.Log in as admin. 2."Manage Inventory" Page. 3.Add update, or delete products.	Product: "Donuts Box" Action: "Update Prise to LKR 900"	Inventory is updated, and the changes are reflected in the product catalog.
TC06	Test Responsive Design	Tailwind CSS and responsive design implemented.	1.Open the website on a desktop browser. 2.Resize browser window. 3.Test on a mobile device.	None	Website layout adjusts seamlessly to different screen sizes.

TC07	Verify Secure Authenticated Routes	User and admin accounts exists.	1.Attempt to access a secure page without logging in. 2.Log in and reattempt access.	User Role: "Customer" Page: "Order History"	Unauthorized access is blocked; Authorized users can view secure pages.
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