

CONTENTS

1	PROJECT TEAM INTRODUCTION.....	3
2	PROBLEM DEFINITION OF MILK TEA SHOP.....	4
3	CUSTOMER REQUIREMENT SPECIFICATION	5
3.1	List of input to the system	5
3.2	List of output expected from the system.....	7
3.3	Overview of processes involved in the system.....	8
3.4	Hardware and software required for implementing the project.....	9
4	CUSTOMER ACCEPTANCE CRITERIA.....	10
5	PROJECT PLAN	11
5.1	Project details.....	11
5.2	Project initiation/Requirement Documents	12
5.3	Deliverable	12
5.4	Project dependencies.....	12
5.5	Major project prototype	13
5.6	Quality plan.....	13
6	GUI STANDARDS DOCUMENTATION	14
6.1	Project documentation	14
6.2	User interface	14
7	INTERFACE DESIGN DOCUMENT.....	16
7.1	Watch information account form.....	16
7.2	Change password form	17
7.3	Login form.....	18
7.4	Choose table form.....	19
7.5	Enter discount code form.....	20
7.6	Order food form.....	21
7.7	Pay bill form.....	22
7.8	Register form.....	24
7.9	Welcome customer form.....	25
7.10	Manage order form.....	26
7.11	Manage shop form for employee.....	28
7.12	Manage table form.....	29

7.13	Manage bill form.....	30
7.14	Manage discount code form	31
7.15	Manage menu form.....	32
7.16	Manage category form	33
7.17	Manage food form	34
7.18	Manage customer account form.....	35
7.19	Manage employee account form.....	36
7.20	Manage manager account form.....	37
7.21	Manage income form.....	38
8	TABLE DESIGN DOCUMENTATION	40
9	PROCESS DESIGN DOCUMENTATION	42
9.1	Context level.....	42
9.2	Level 0.....	43
9.3	Level 1.....	44
9.4	Level 2.....	47
9.5	Level 3 for Order food process	50
9.6	Flow chart diagram.....	51
10	CODING STANDARD DOCUMENTATION	68
10.1	Programming Standards.....	68
10.2	Standards for code writing style	68
11	TASK SHEET	70
12	TESTING DOCUMENTATION	73
13	PROJECT REVIEW	74
14	FINAL CHECK LIST	75
15	INSTALLATION GUIDE.....	77
16	USER GUIDE.....	82
16.1	For manager.....	82
16.2	For employee.....	94
16.3	For customer.....	96

1 PROJECT TEAM INTRODUCTION

Project manager

- Teacher. Luong The Anh
- Email: ltanh@ctu.edu.vn

Team Leader/Analyst/Designer/Tester

- Student. Dao Minh Trung Thuan
- Student ID: Student1153187
- Email: dmtthuana18088@cusc.ctu.edu.vn

Team Member/Coder

- Student. Ha Thi Hong Tham
- Student ID: Student1138919
- Email: hththama18124@cusc.ctu.edu.vn

Team Member/Coder

- Student. Tan Tan Lap
- Student ID: Student1146966
- Email: ttlapa18081@cusc.ctu.edu.vn

Design Plan: Milk Tea Shop	Document name: Problem Definition	SWD/Form No. 1
Effective Date: 15-10-2019	Version: 1.0	Page 1 of 1

2 PROBLEM DEFINITION OF MILK TEA SHOP

Milk Tea Shop is a milk tea shop specializing in selling milk tea and fast food. The main customers that it serves are students. When customers come to the shop, they order food and choose their own seat that they like then pay for bill at cashier.

But recently, the number of customers is increasing. The shop manager feels difficult to record and manage not only the invoice but also revenue of the shop. In addition, employees cannot write lots of order bill every day. So, they want to have a system can help them to manage their shop that customers can order bill simpler and employees don't work too much.

The system will provide functions:

- Customers can order food, choose their table that they like then pay at cashier
- Customers can register and log into system or enter discount code to receive the offer from shop
- Employees and manager must log in to use system.
- Employees can manage order bills in food tables, status of food tables, and food
- Manager can manage bills, employees, accounts and income of shop.
- Manager's actions include view, insert, update, delete. But employee cannot delete or update anything. The order bill can be canceled when in the order process but not delete when customer has paid.

Beside that:

- The system must run smoothly, without errors from the system side.
- Fast execution speed, serving the crowded customer flow.

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Ha Thi Hong Tham	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Customer Requirement Specification	SWD/Form No. 2A
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3 CUSTOMER REQUIREMENT SPECIFICATION

3.1 List of input to the system

Account: User account in the system

- Id: id account.
- Account: account name.
- Password: password.
- Roll: roll of account (1: customer, 2: employee, 3: manager).
- Name: name of account owner.
- Gender: gender of account owner.
- Birthday: the date of birth of account owner.
- Address: address of account owner.
- Phone: phone number of account owner.
- Email: email of account owner.
- Status: status of account (1: enable, 0: disable).

Table Food: Information of table

- Id: id table.
- X: coordinates X of table.
- Y: coordinates Y of table.
- Status: status of account (2: busy, 1: enable, 0: disable).

Category: Category of food

- Id: id category.
- Name: type name.
- Status: status of account (1: enable, 0: disable).

Food: Information of food

- Id: id food.
- Name: name of food.
- Id Category: classify on food (foreign key of Category).

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Effective Date: 15-10-2019	Version: 1.0	Page 2 of 5

- Price: price of food
- Status: status of account (1: enable, 0: disable).

Discount: Information of discount

- Id: id discount.
- Name: code value.
- Sale: discount values (example: 15%).
- Status: status of account (2: giving out, 1: enable, 0: disable).

Bill: Information of bill

- Id: id of bill.
- Id Table Food: id number of table (foreign key of Table Food).
- Id Customer: id number of Customer (foreign key of Account).
- Id Employee: id number of Employee (foreign key of Account).
- Id Discount: id number of Discount (foreign key of Discount).
- Sale: total sale of bill
- Check In: the time that customer paid bill.
- Check Out: the time that customer left the shop.

Bill Detail: Information of bill detail

- Id: id bill detail.
- Id Bill: id number of table Bill (foreign key of Bill).
- Id Food: id number of table Food.
- Name Food: name ordered food.
- Id Category: id number category of food.
- Name Category: name category of ordered food.
- Quantity: quantity of food.
- Price: price of ordered food.

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3.2 List of output expected from the system

For Customer

- Display food list.
- Display food category.
- Display bill details and total price when ordering.
- Display information of account when logged in.
- Display food table list when paid bill.

For Employee

- Display food table list.
- Display bill list of each table in that day
- Display bill details of each bill.
- Display bill details that customers are ordering.
- Display information of account when logged in.
- Display food list.
- Display food category.

For Manager

- Display table list.
- Display employee list and account of each employee.
- Display customer list and account of each customer.
- Display discount code list.
- Display bill list and bill details of each bill.
- Display food list.
- Display food category.
- Display income.
- Export income report.

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Effective Date: 15-10-2019	Version: 1.0	Page 4 of 5

3.3 Overview of processes involved in the system

For Customer

- Watch category food and food list, choose food.
- Watch bill details that ordered.
- Customers can cancel order if they have not paid.
- Pay bill and watch table list, choose table.
- Login account to discount bill.
- Enter discount code.
- Watch information of account.
- Register account.

For Employees

- Watch category food and food list.
- Watch bill details that customer is ordering.
- Watch table list.
- Watch bill list and bill details of each table in that day.
- Watch information of account.
- Check out the bill of table.

For Manager

- Manage category food: watch, insert, update, delete categories food.
- Manage food: watch, insert, update, delete food.
- Manage bill: watch bills and bill details.
- Manage employee: watch, insert, update, delete information and account of employees.
- Manage customer: watch, insert, update, delete information and account of customers.
- Manage discount code: watch, insert, update, delete discount code.
- Manage income of shop, export report.

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Effective Date: 15-10-2019	Version: 1.0	Page 5 of 5

3.4 Hardware and software required for implementing the project**Hardware**

CPU	1.8 GHz or faster processor. Quad-core or better recommended.
Ram	4 GB of RAM. 8 GB of RAM recommended.
Hard disk space	Minimum of 800MB up to 256 GB or more of available space depending on increasing database.
Hard disk speed	To improve performance, install Operating System and Project run on SSD drive.
Display screen size	Supports a minimum display 1600 x 900

Environment

Operating system	Project will install and run on the following operating systems (Windows 10 64 bit recommended)
Environment	Java 8 (version 1.8.0_231)
Database server	Microsoft SQL Server (SQL Server 2016 recommended) Microsoft SQL Server Management Studio 18 for managing database

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Design Plan: Milk Tea Shop	Document name: Customer Acceptance Criteria	SWD/Form No. 2B
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4 CUSTOMER ACCEPTANCE CRITERIA

For Customer

- Customers can watch food and price in food list.
- Customers can order food and pay bill.
- Customers can cancel ordering when they had not pay.
- Customers can choose table food after paying bill.
- Customers can login or enter discount code in order to discount bill.
- Customers can register, account will create automatically with information that customer registered.
- Customers can watch information of their account.

For Employee

- Employees must login to use system.
- Employees can watch bill and table that customer is ordering.
- Employees can watch list of food.
- Employees can watch status of tables and bills in that day of each table.
- Employees can watch information of their account.

For Manager

- Managers can watch, insert, update, delete all accounts.
- Managers can watch, edit their account.
- Managers can watch, insert, update, delete information of food.
- Managers can watch, insert, update, delete food table.
- Managers can watch, insert, update, delete discount code.
- Managers can watch bill details.
- Managers can watch income of shop and export file report.

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Design Plan: Milk Tea Shop	Document name: Project Plan	SWD/Form No. 3
Effective Date: 15-10-2019	Version: 1.0	Page 1 of 3

5 PROJECT PLAN

5.1 Project details

5.1.1 Name Project

Milk Tea Shop - Milk Tea Shop Management System

5.1.2 Date of Project Plan:

- Starting: 15-10-2019
- Ending: 26-11-2019

5.1.3 Project Vision/Objectives

Develop a management system application which stores information of bills, categories food, food, tables food, employees, customers and manages them, also has enough necessary functions for the shop's owner to work effectively, such as statistic bill, calculate revenue, export report. This application supports customer can order food, pay bill and choose table at cashier easily. It helps employees can manage tables and bills of each table in that day effectively.

5.1.4 Scope

Basic manage milk tea shop, statistic bill, calculate revenue, export report bill, order food, pay bill.

5.1.5 Our understanding about the Client organization

Milk Tea Shop is a milk tea shop specializing in selling milk tea and fast food. The main customers that it serves is students. When customers come to the shop, they order food and pay bill. The shop's owner need application which supports managing bill, calculate revenue, export report.

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Effective Date: 15-10-2019	Version: 1.0	Page 2 of 3

5.1.6 Project with Organization with Responsibilities and Authorities

- Dao Minh Trung Thuan – Leader: System, database analysis and design, design, coding, testing.
- Ha Thi Hong Tham – Member: design, coding, testing.
- Tan Tan Lap – Member: design, coding.

5.2 Project initiation/Requirement Documents

- **Java SE JDK 11:** <https://docs.oracle.com/en/java/javase/11/>
- **IntelliJ IDEA:** <https://www.jetbrains.com/idea/documentation/>
- **JavaFX 2:** <https://docs.oracle.com/javafx/2/>
- **JMetro:** <https://www.pixelduke.com/java-javafx-theme-jmetro/>
- **SQL Server:** <https://docs.microsoft.com/en-us/sql/sql-server/sql-server-technical-documentation?view=sql-server-ver15>
- **JDBC Driver for SQL Server:** <https://docs.microsoft.com/en-us/sql/connect/jdbc/microsoft-jdbc-driver-for-sql-server?view=sql-server-ver15>
- **IText Java:** <https://www.tutorialspoint.com/itext/index.htm>
- **BCrypt:** <https://docs.spring.io/spring-security/site/docs/current/api/org/springframework/security/crypto/bcrypt/BCrypt.html>

5.3 Deliverable

- Application.
- User guide.
- Project document.

5.4 Project dependencies

- Lacking of time.
- Illness or family busy.
- Members slow process or out of the project.

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Effective Date: 15-10-2019	Version: 1.0	Page 3 of 3

5.5 Major project prototype

Milk Tea Shop - Milk Tea Shop Management System

5.6 Quality plan

- Review activities:** At least 3 times a week, each meeting there is a check for each member in group to review processing, help to solve hard trouble.
- Testing activities:** Ask for some help from a real shop and test the project with their customers, employees and shop's owner.
- Backup and recovery strategies:** One copy is stored in Github and each member store one copy in their own computer.

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Design Plan: Milk Tea Shop	Document name: GUI Standards	SWD/Form No. 4
Effective Date: 15-10-2019	Version: 1.0	Page 1 of 2

6 GUI STANDARDS DOCUMENTATION

6.1 Project documentation

- Document theme and Color scheme: Slide - Basic (Elegant)
- Background color: White
- Font size: 13
- Font color: Black
- Font style: Times New Roman
- Text alignment: Justify
- Heading 1: font size 18, font style bold, capitalize letter
- Heading 2: font size 16, font style bold
- Heading 3: font size 14, font style bold

6.2 User interface

Use CSS Stylesheet for design with main theme is JMetro

Root

- Font family: "Segoe UI Semibold"
- Font size: 16
- Text fill: #181818

Pane, Anchor Pane, V-Box, H-Box, Grid Pane, Scroll Pane, Flow Pane

- Padding: 5
- Spacing: 10
- Alignment: center
- H-gap: 10
- V-gap: 10

Button

- Text fill: #F2F8FD
- Background color: #0078D7

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Design Plan: Milk Tea Shop	Document name: GUI Standards	SWD/Form No. 4
Effective Date: 15-10-2019	Version: 1.0	Page 2 of 2

- Border color: #0078D7
- Text alignment: center
- Row v-alignment: middle
- Border style: solid
- Border width: 1
- Padding: top-bottom: 5, left-right: 20
- Content display: top
- Alignment: center
- Effect: drop shadow with "three-pass-box, #00233F, 15, 0, 5, 5"

Field, Date Picker, Radio Button, Combo Box

- Font-family: "Segoe UI"
- Width: 300

Wrapper

- Background image: use image with link "/asset/brand/Background.png"
- Background repeat: no-repeat
- Background size: cover
- Background position: center

Container

- Background color: #F2F8FDDD
- Border color: #00508F
- Padding: 15

Title

- Font size: 24
- Text fill: #00508F

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Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 1 of 24

7 INTERFACE DESIGN DOCUMENT

Using FXML for design view form of application

7.1 Watch information account form

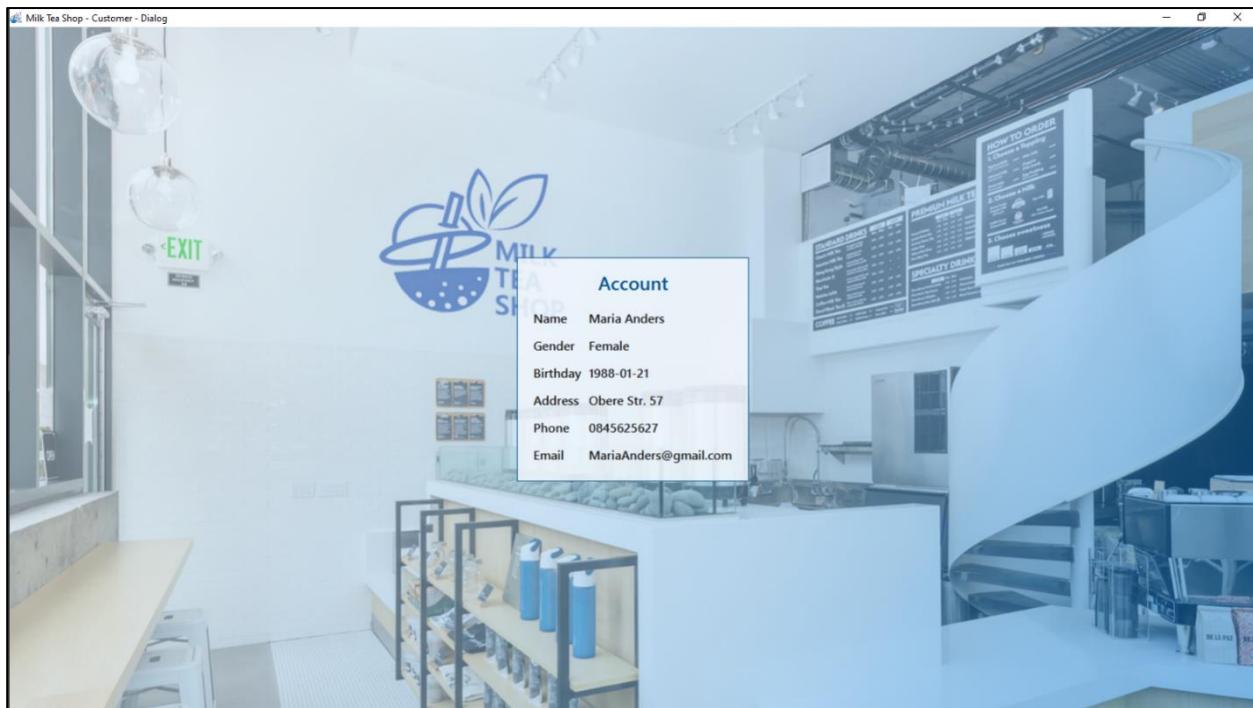


Figure 1: Watch information account form

Name control	Description
Name label	Display name
Gender label	Display gender
Birthday label	Display birthday

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Effective Date: 15-10-2019	Version: 1.0	Page 2 of 24

Address label	Display address
Phone label	Display phone
Email label	Display email

7.2 Change password form

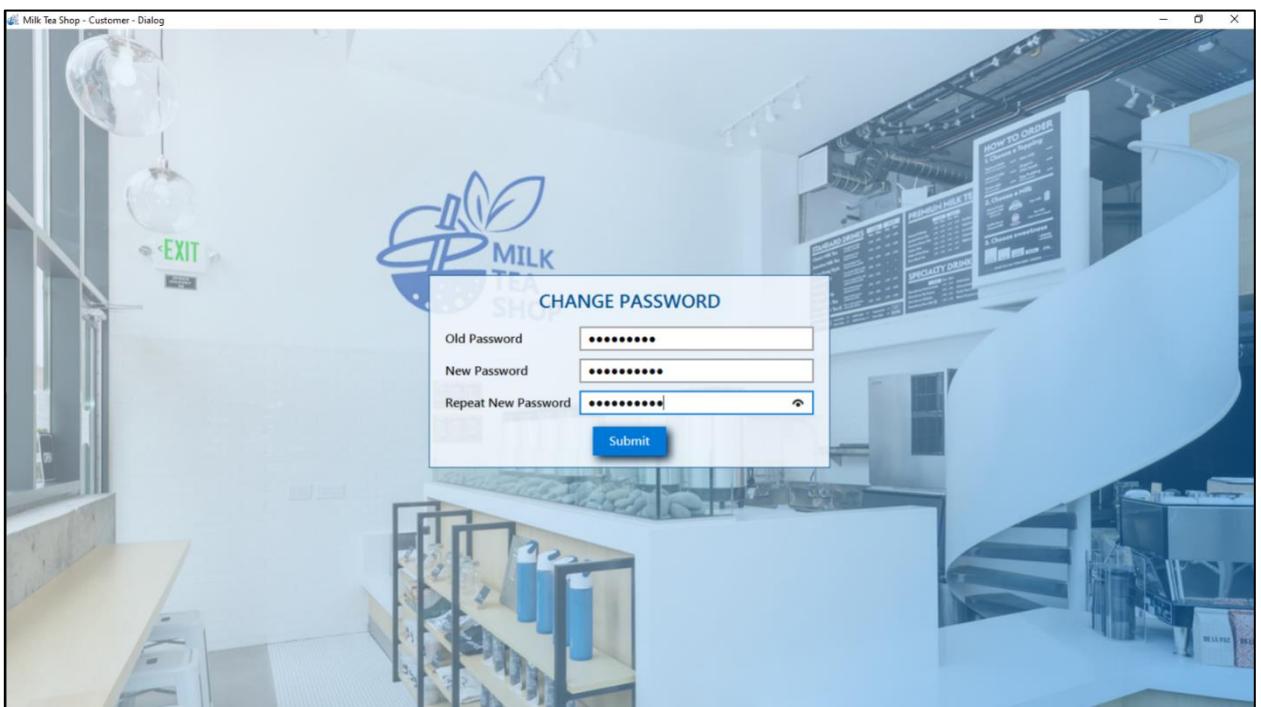


Figure 2: Change password form

Name control	Description
Old password field	Enter old password
New password field	Enter new password

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Effective Date: 15-10-2019	Version: 1.0	Page 3 of 24

Repeat password field	Re-enter new password
Submit button	Submit for changing password

7.3 Login form

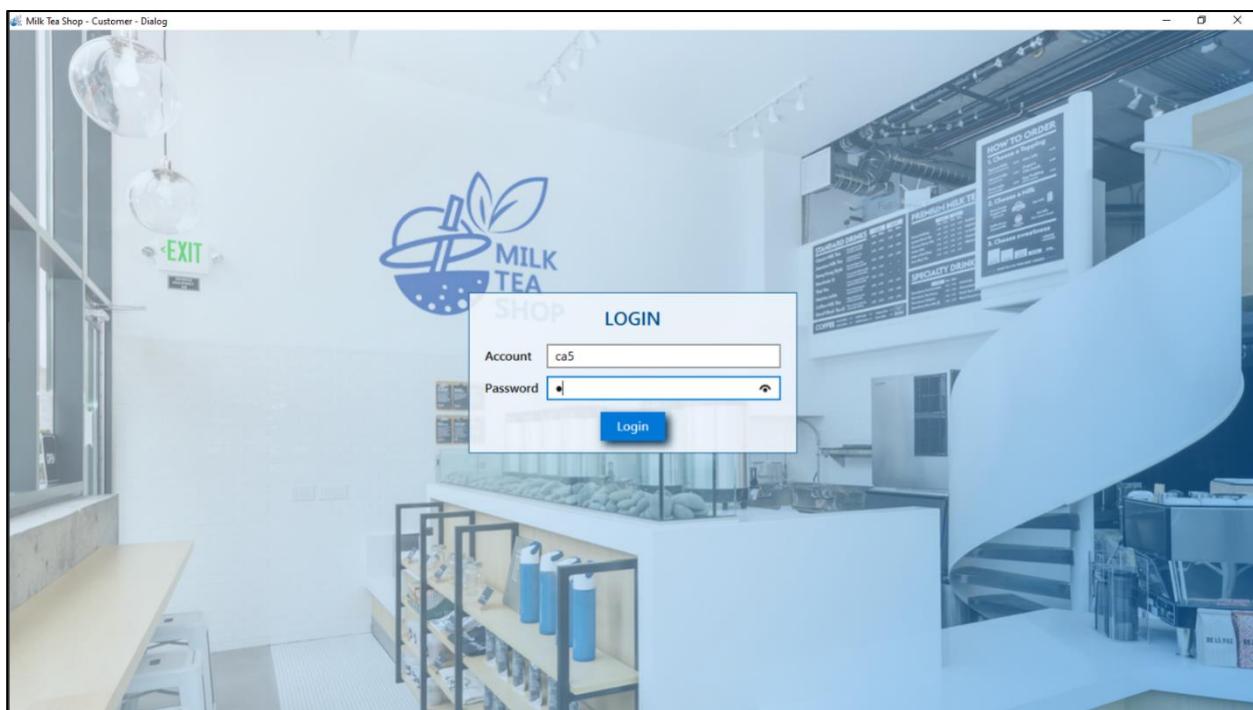


Figure 3: Login form

Name control	Description
Account text field	Enter name account
Password field	Enter password
Login button	Login system

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7.4 Choose table form

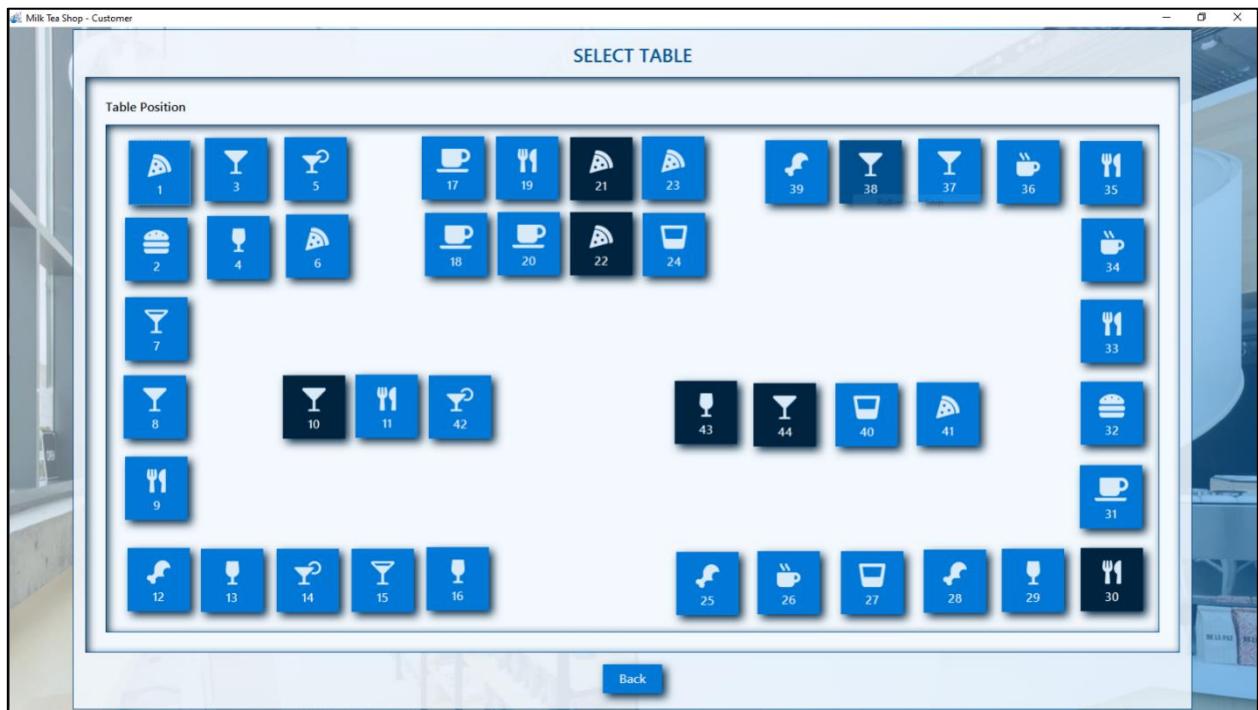


Figure 4: Choose table form

Name control	Description
Table buttons	Choose table to pay bill
Back button	Back to order food form

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Effective Date: 15-10-2019	Version: 1.0	Page 5 of 24

7.5 Enter discount code form

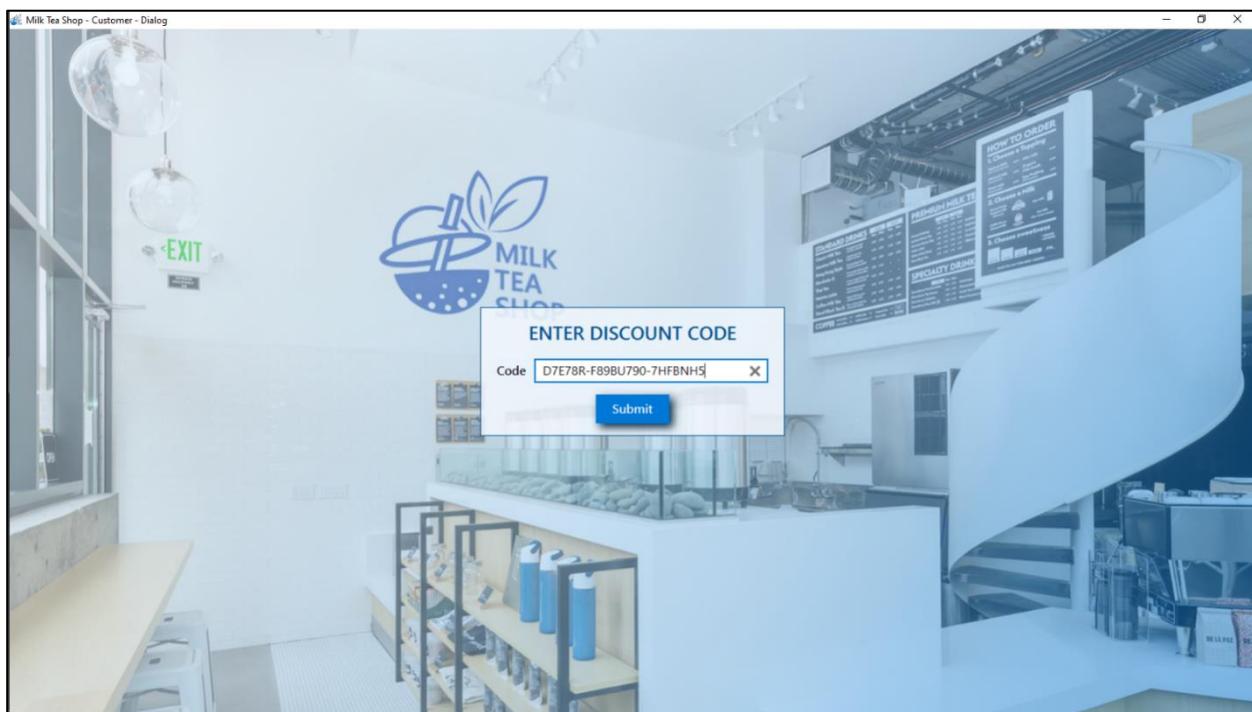


Figure 5: Enter discount code form

Name control	Description
Discount code text field	Enter discount code
Submit button	Submit for entering discount code

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Effective Date: 15-10-2019	Version: 1.0	Page 6 of 24

7.6 Order food form

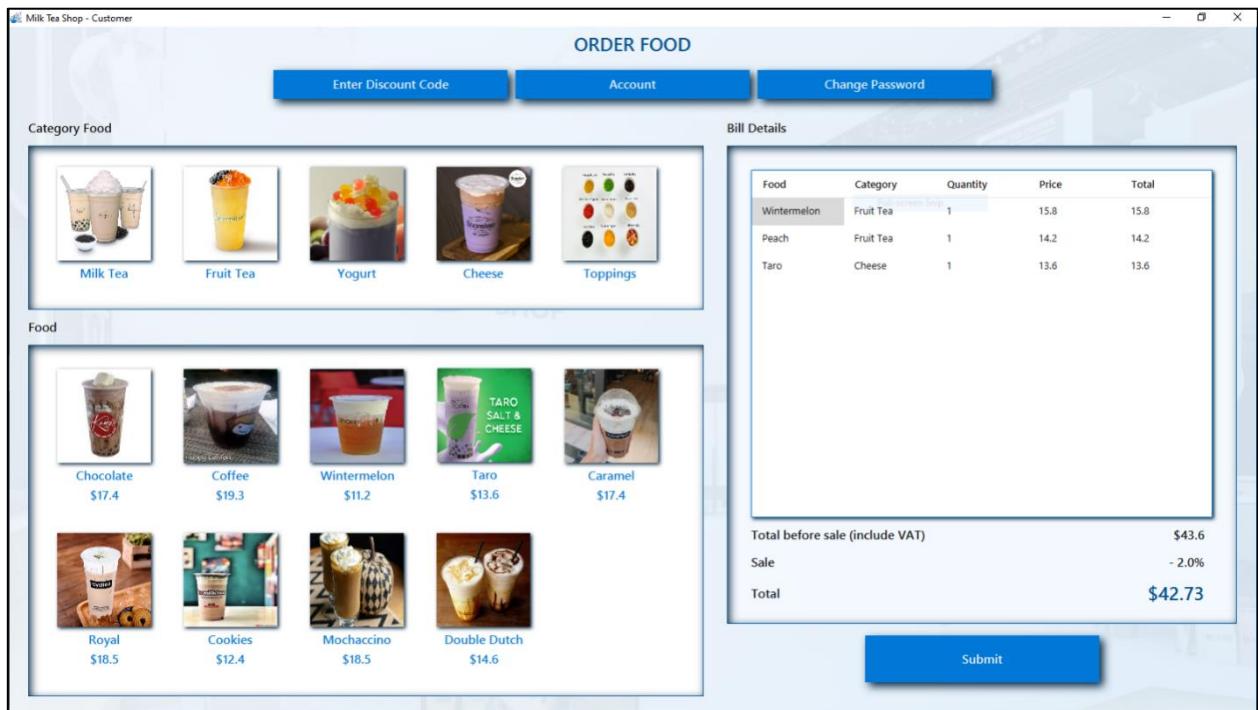


Figure 6: Order food form

Name control	Description
Enter discount code button	Call enter discount code form
Account button	Call watch information account form
Change password button	Call change password form
Category buttons	Load food list by choosing category buttons

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Effective Date: 15-10-2019	Version: 1.0	Page 7 of 24

Food buttons	Order food by choosing food buttons
Total before sale label	Display total price before sale
Sale label	Display total sale
Total label	Display total price after sale
Bill view table	Display bill details
Submit button	Submit for ordering food

7.7 Pay bill form

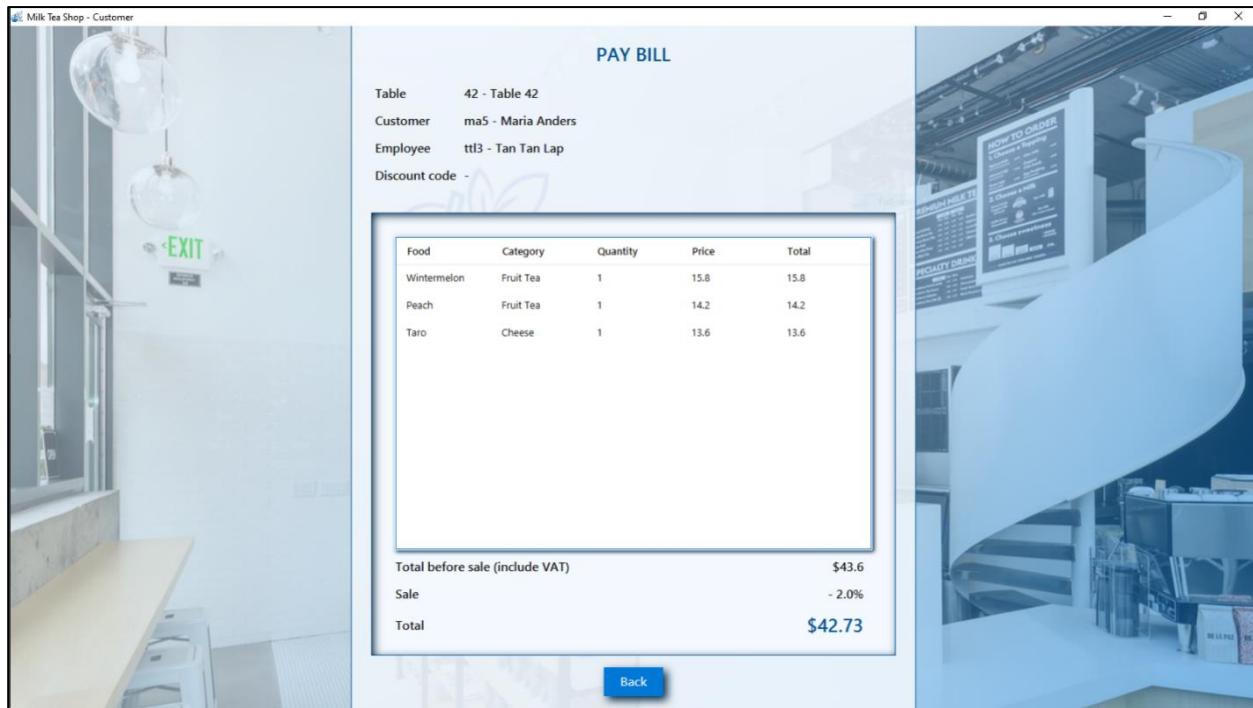


Figure 7: Pay bill form

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Effective Date: 15-10-2019	Version: 1.0	Page 8 of 24

Name control	Description
Table label	Display chosen table
Customer label	Display customer account
Employee label	Display employee account
Discount code label	Display entered discount code
Bill view table	Display bill details
Total before sale label	Display total price before sale
Sale label	Display total sale
Total label	Display total price after sale
Back button	Back to form choose table

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Effective Date: 15-10-2019	Version: 1.0	Page 9 of 24

7.8 Register form

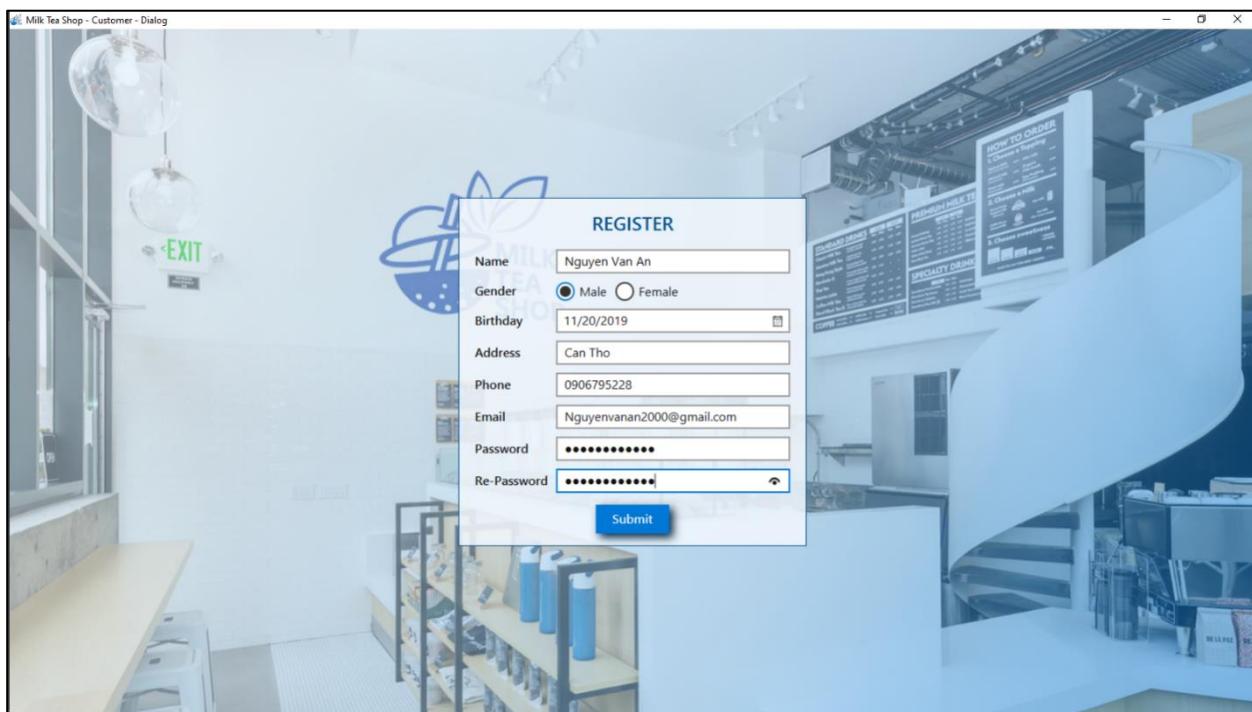


Figure 8: Register form

Name control	Description
Name text field	Enter name
Male radio button	Select male gender
Female radio button	Select female gender
Birthday date picker	Select birthday
Address text field	Enter address

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Effective Date: 15-10-2019	Version: 1.0	Page 10 of 24

Phone text field	Enter phone
Email text field	Enter email
Password field	Enter password
Re password field	Re-enter password
Submit button	Submit for registering

7.9 Welcome customer form

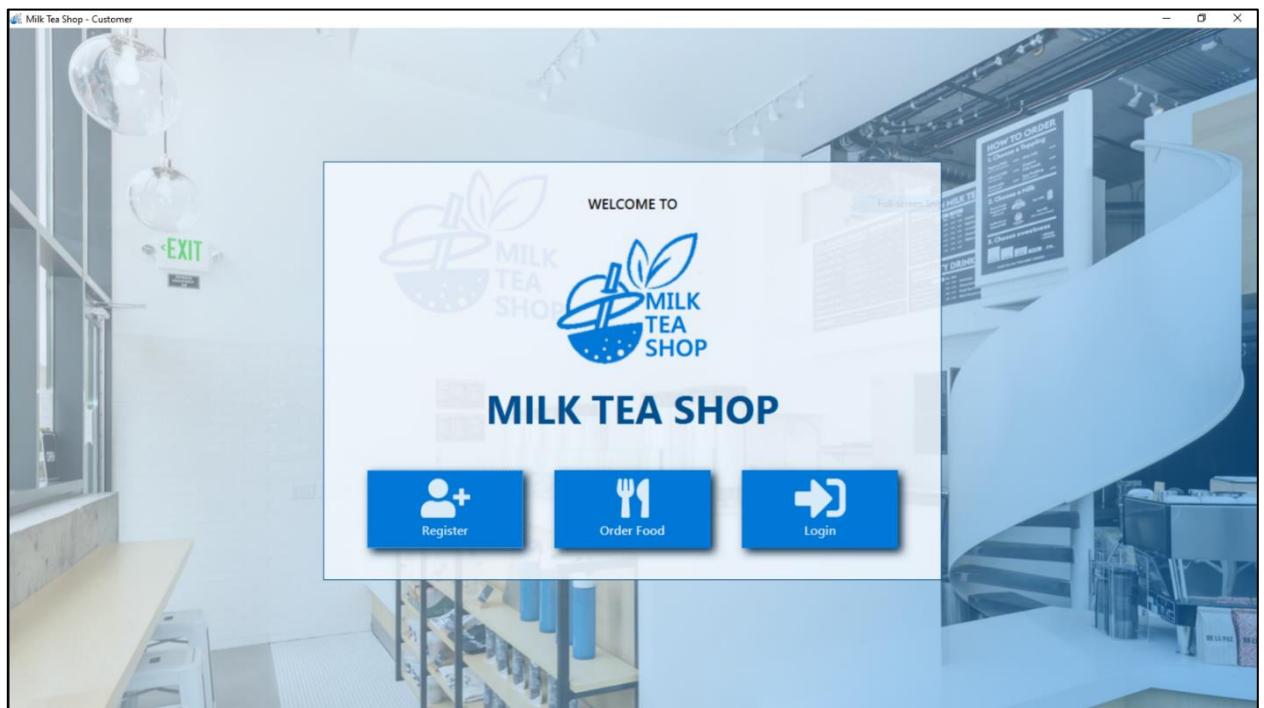


Figure 9: Welcome customer form

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Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 11 of 24

Name control	Description
Register button	Call register form
Order food button	Call order food form
Login button	Call login form

7.10 Manage order form

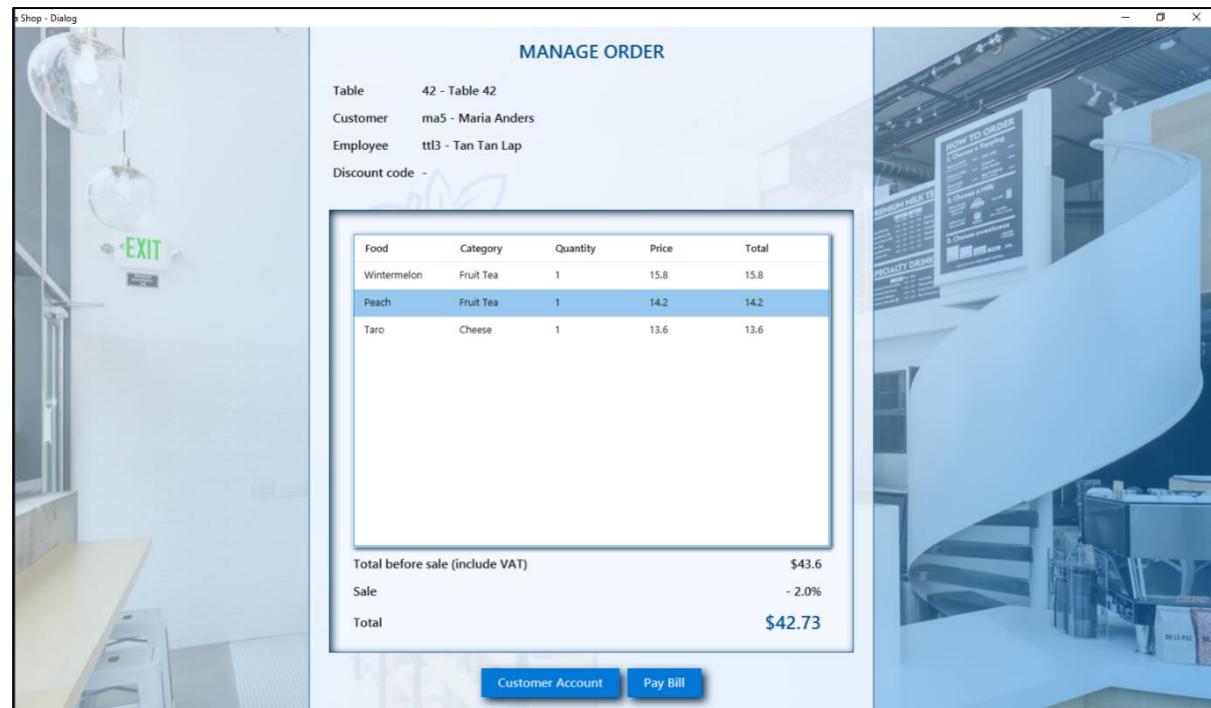


Figure 10: Manage order form

Date:	Prepared by (Student)	Approved by (Teacher)
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Effective Date: 15-10-2019	Version: 1.0	Page 12 of 24

Name control	Description
Table label	Display chosen table
Customer label	Display customer account
Employee label	Display employee account
Discount code label	Display entered discount code
Bill view table	Display bill details
Total before sale label	Display total price before sale
Sale label	Display total sale
Total label	Display total price after sale
Customer account button	Call watch customer account form
Pay bill	Check in bill

Date:	Prepared by (Student)	Approved by (Teacher)
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Effective Date: 15-10-2019	Version: 1.0	Page 13 of 24

7.11 Manage shop form for employee



Figure 11: Employee form

Name control	Description
Manage Shop	Call manage shop form
Manage menu	Call manage menu form
Customer account button	Call manage customer form
Employee account button	Call watch information account form
Change password button	Call change password form

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Effective Date: 15-10-2019	Version: 1.0	Page 14 of 24

Open shop button	Setup position customer form
Manage position table button	Call manage position table form
Manage table button	Call manage table form
Manage bill button	Call manage bill form
Discount code button	Call manage discount code button
Table buttons	Display table in shop

7.12 Manage table form

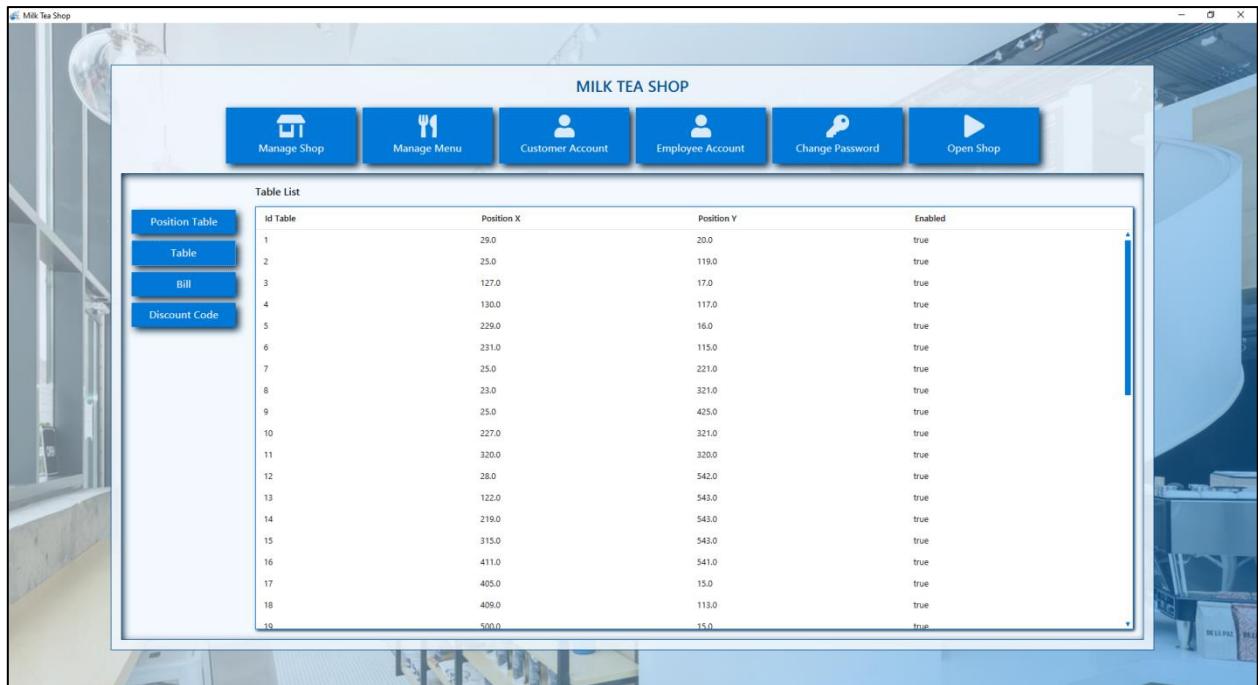


Figure 12 Manage table form

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 15 of 24

Name control	Description
Table list view table	Display table list

7.13 Manage bill form

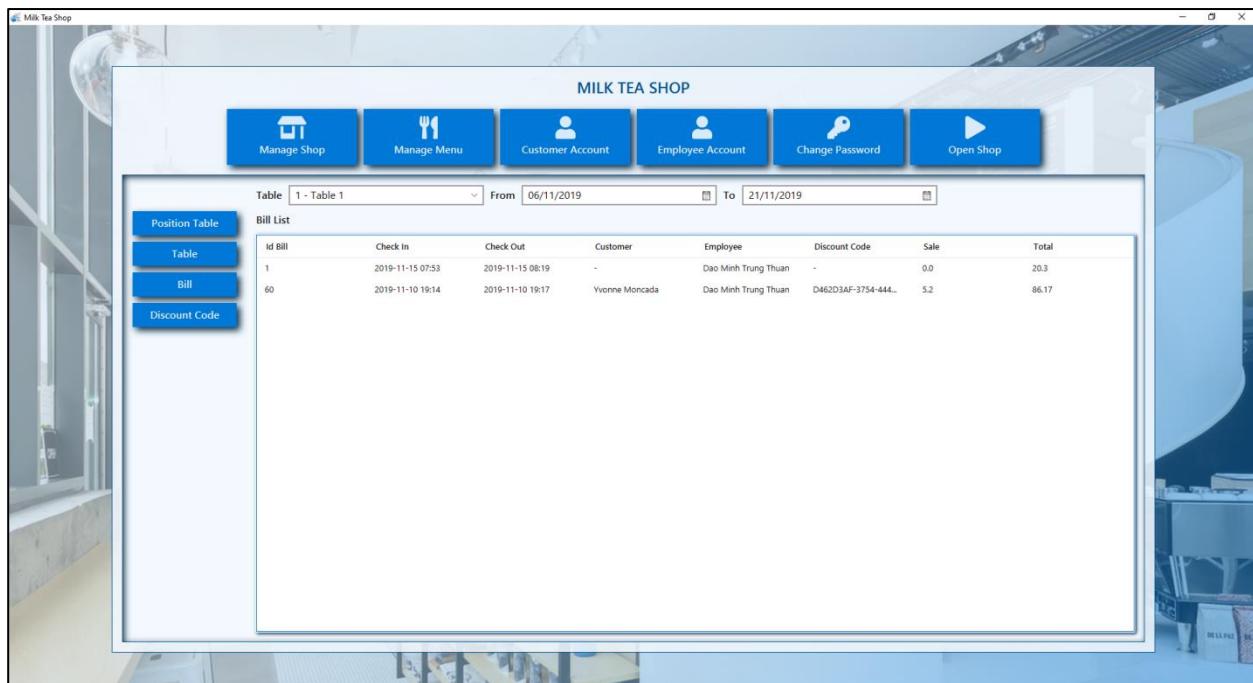


Figure 13 Manage bill form

Name control	Description
Bill list view table	Display bill list
Table combo box	Select table for showing bill list

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 16 of 24

From date picker	Select date starting
To date picker	Select date ending

7.14 Manage discount code form

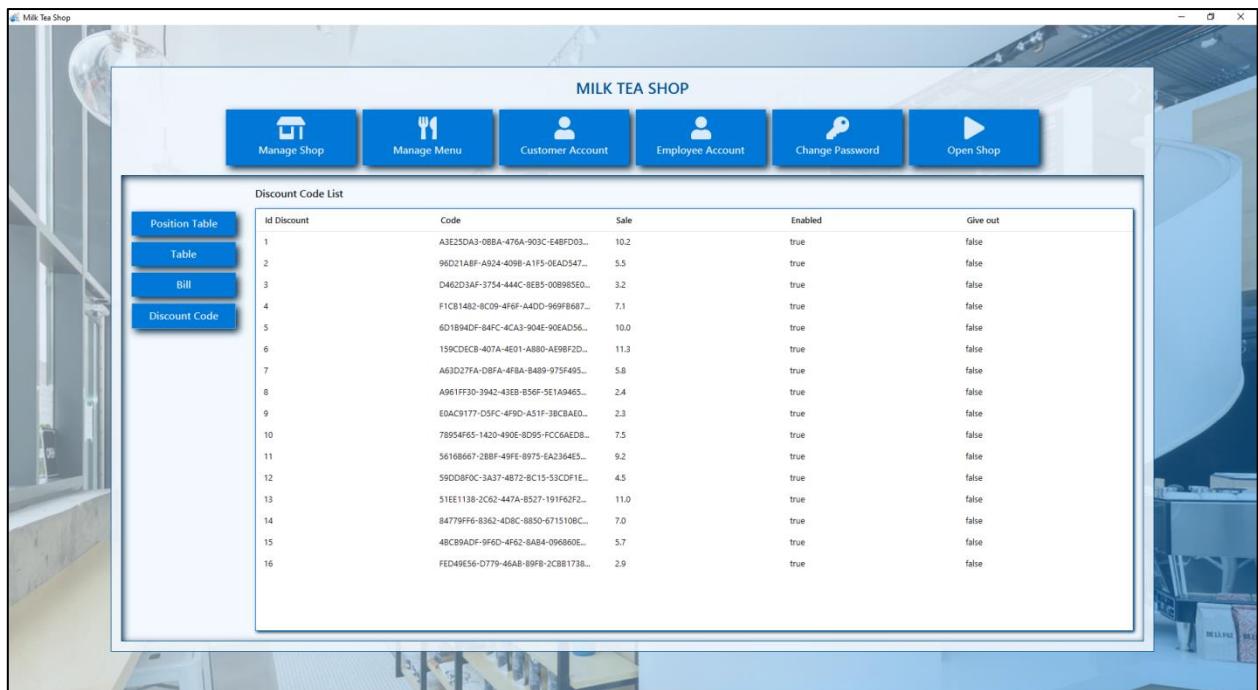


Figure 14: Manage discount code form

Name control	Description
Discount code list view table	Display discount code list

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 17 of 24

7.15 Manage menu form

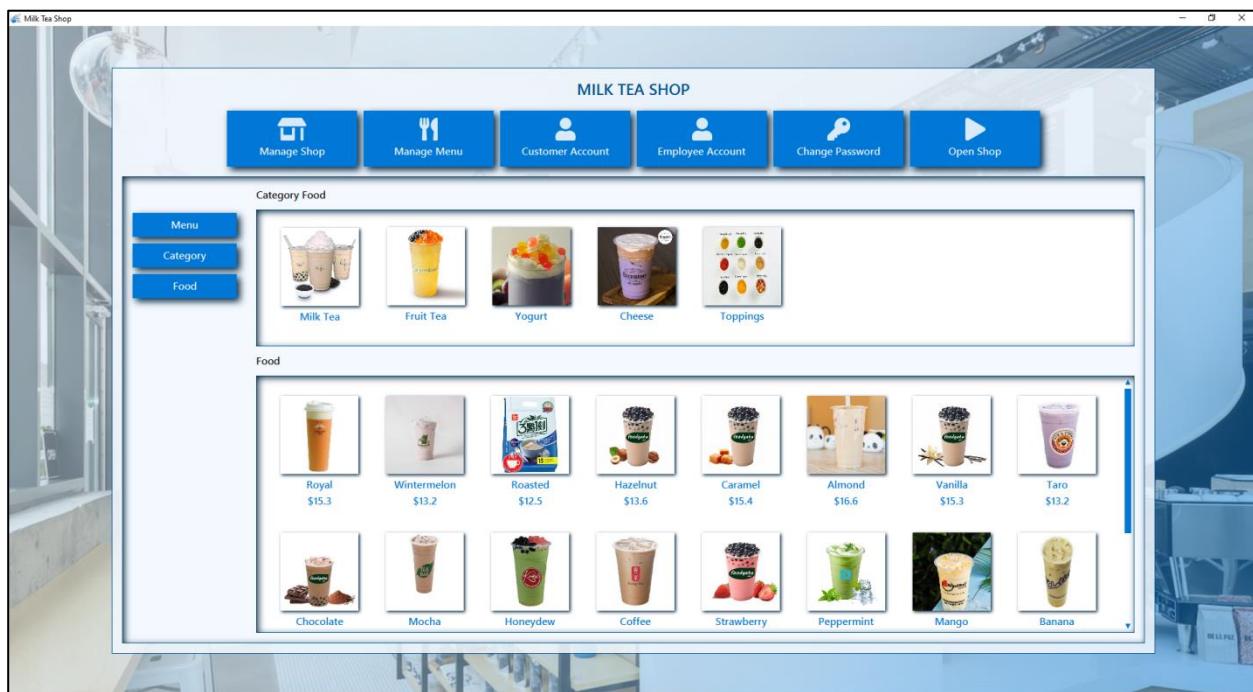


Figure 15: Manage menu form

Name control	Description
Manage menu button	Call manage menu form
Manage category button	Call manage category form
Manage food button	Call manage food form

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 18 of 24

Category buttons	Display category list
Food buttons	Display food list

7.16 Manage category form

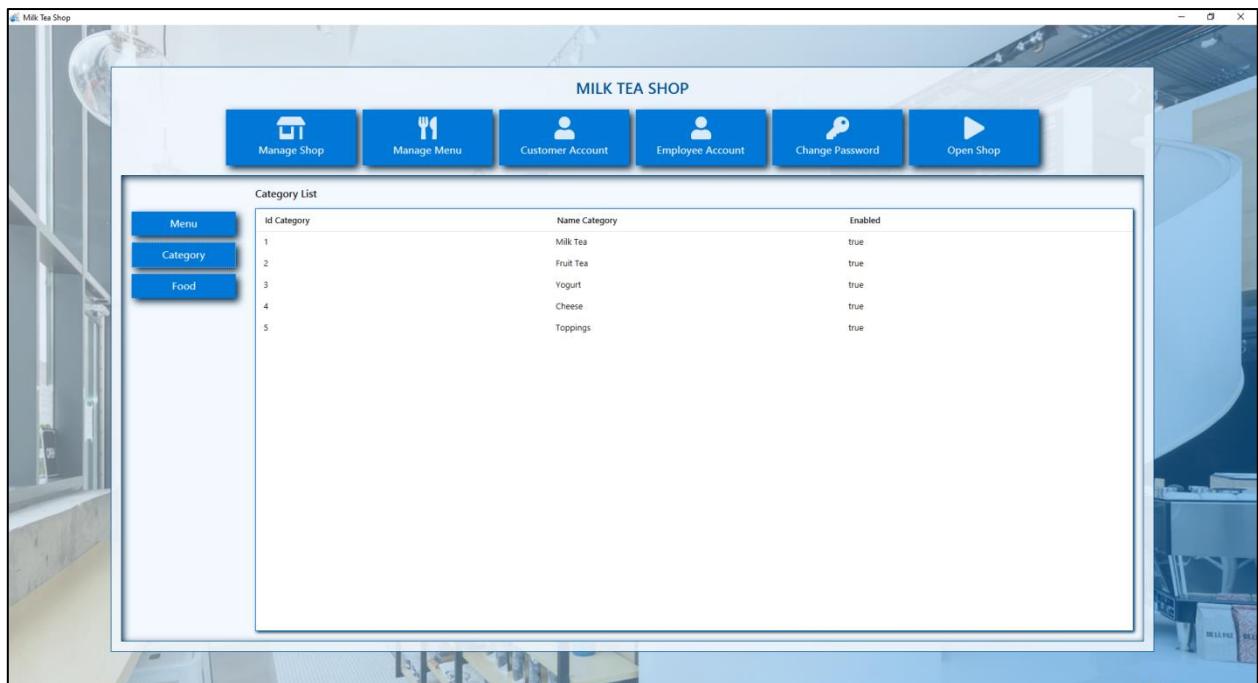


Figure 16: Manage category form

Name control	Description
Category list view table	Display category list

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 19 of 24

7.17 Manage food form

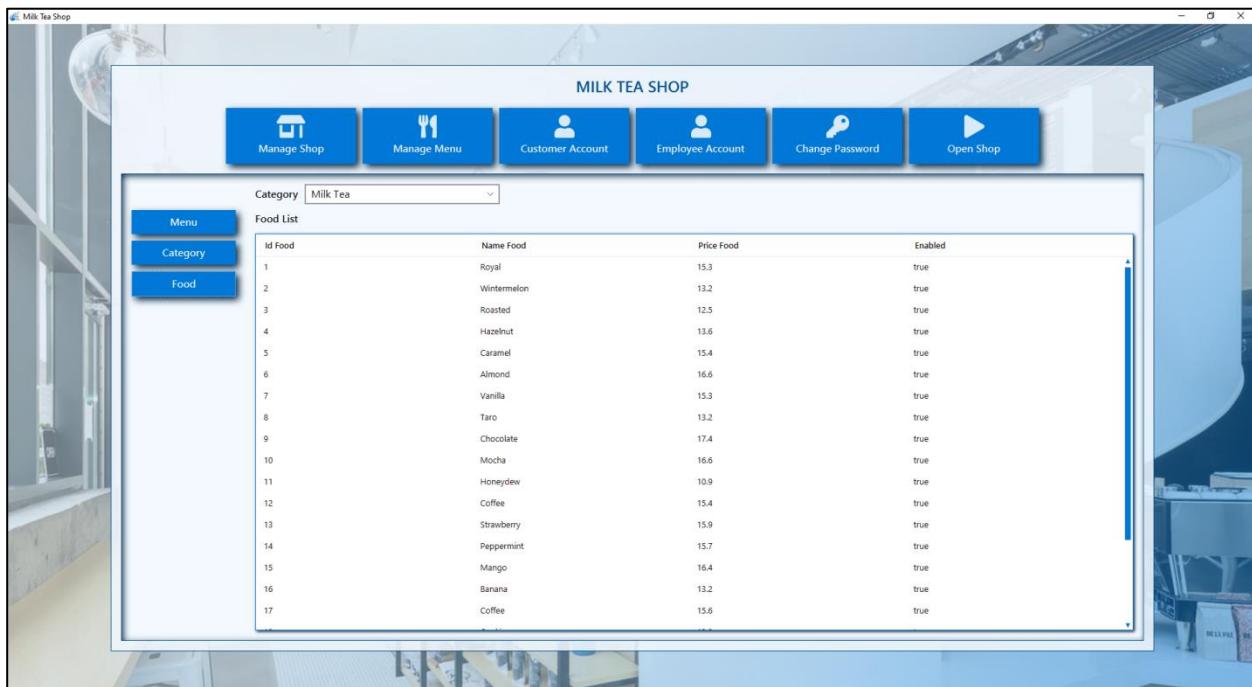


Figure 17: Manage food form

Name control	Description
Food list view table	Display food list
Category combo box	Select category for showing food

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 20 of 24

7.18 Manage customer account form

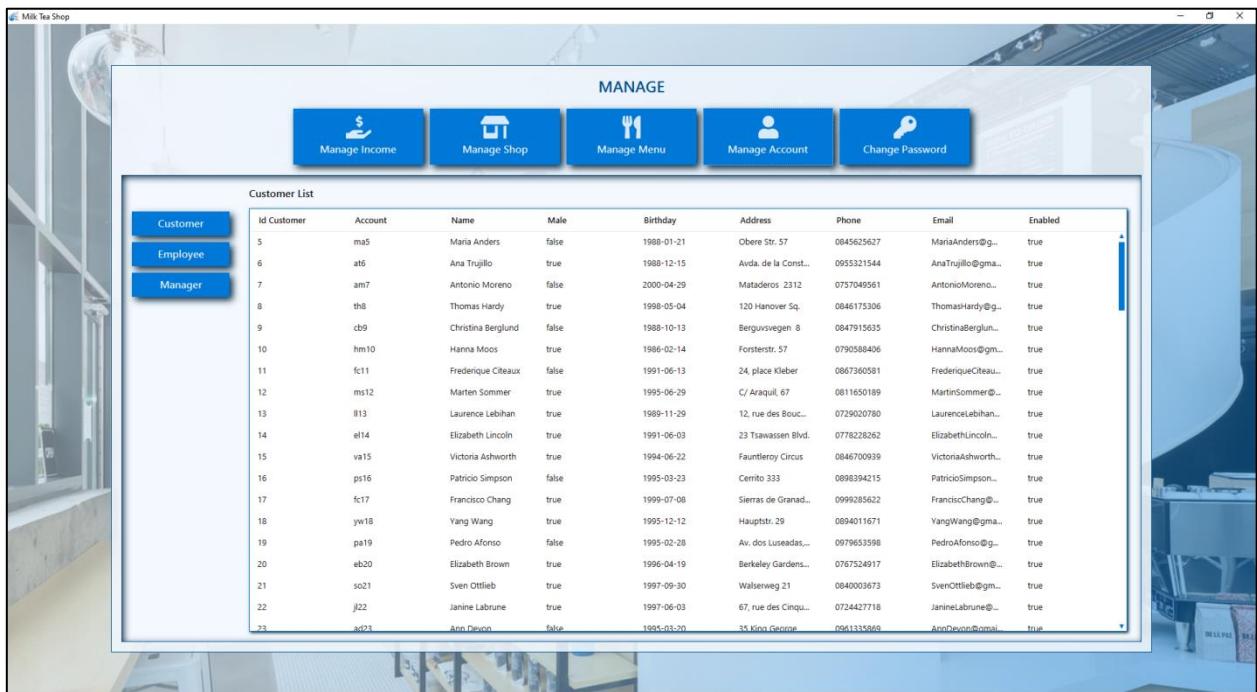


Figure 18: Manage customer account form

Name control	Description
Customer list view table	Display customer account list
Manage customer account button	Call customer account form
Manage employee account button	Call employee account form
Manage manager account button	Call manager account form

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 21 of 24

7.19 Manage employee account form

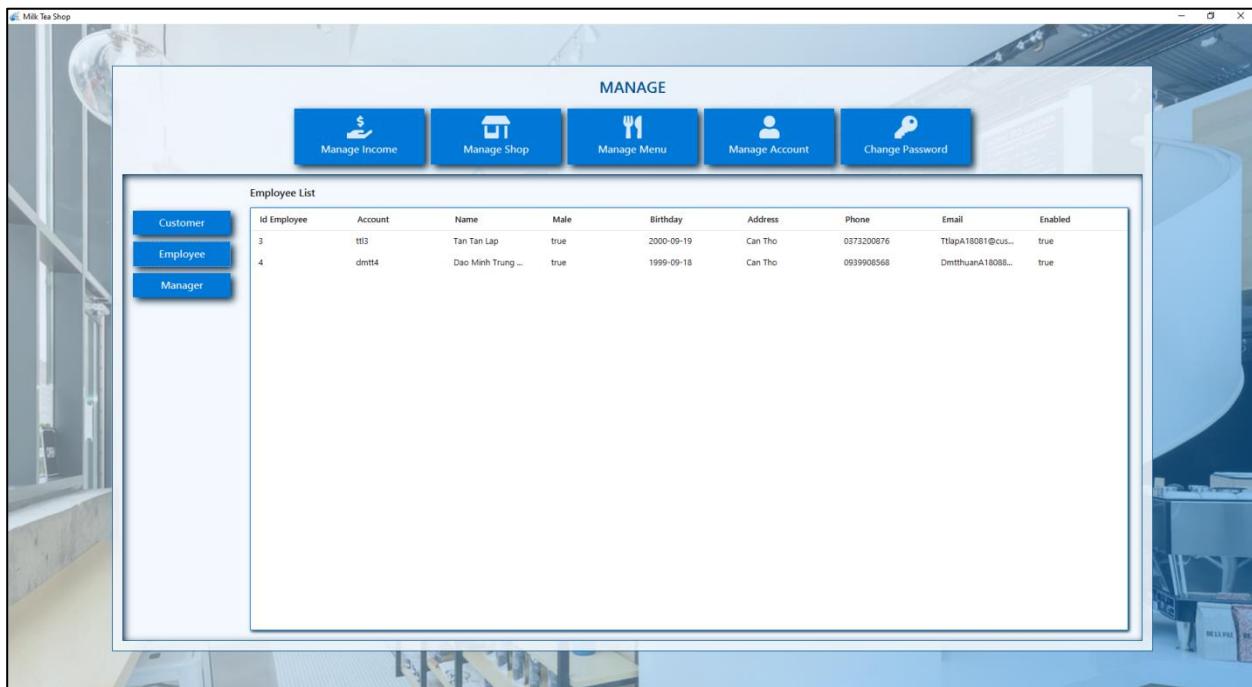


Figure 19: Manage employee account form

Name control	Description
Employee list view table	Display employee account list

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 22 of 24

7.20 Manage manager account form

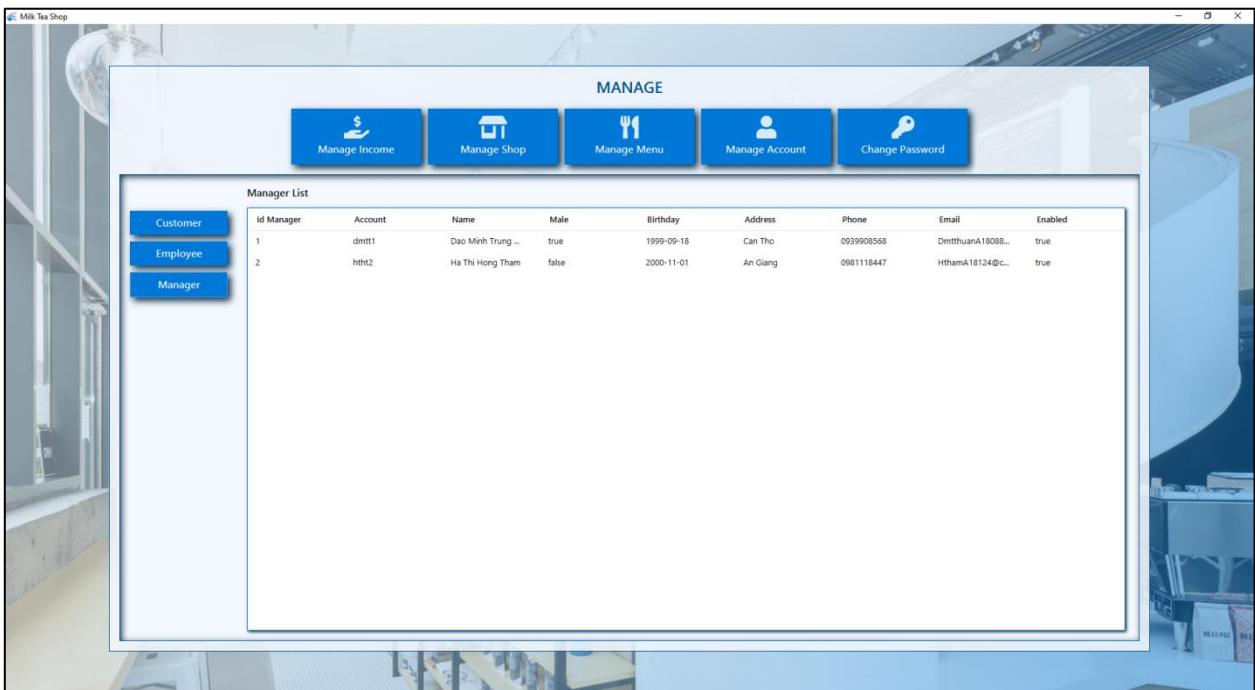


Figure 20: Manage manager account form

Name control	Description
Manager list view table	Display manager account list

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 23 of 24

7.21 Manage income form

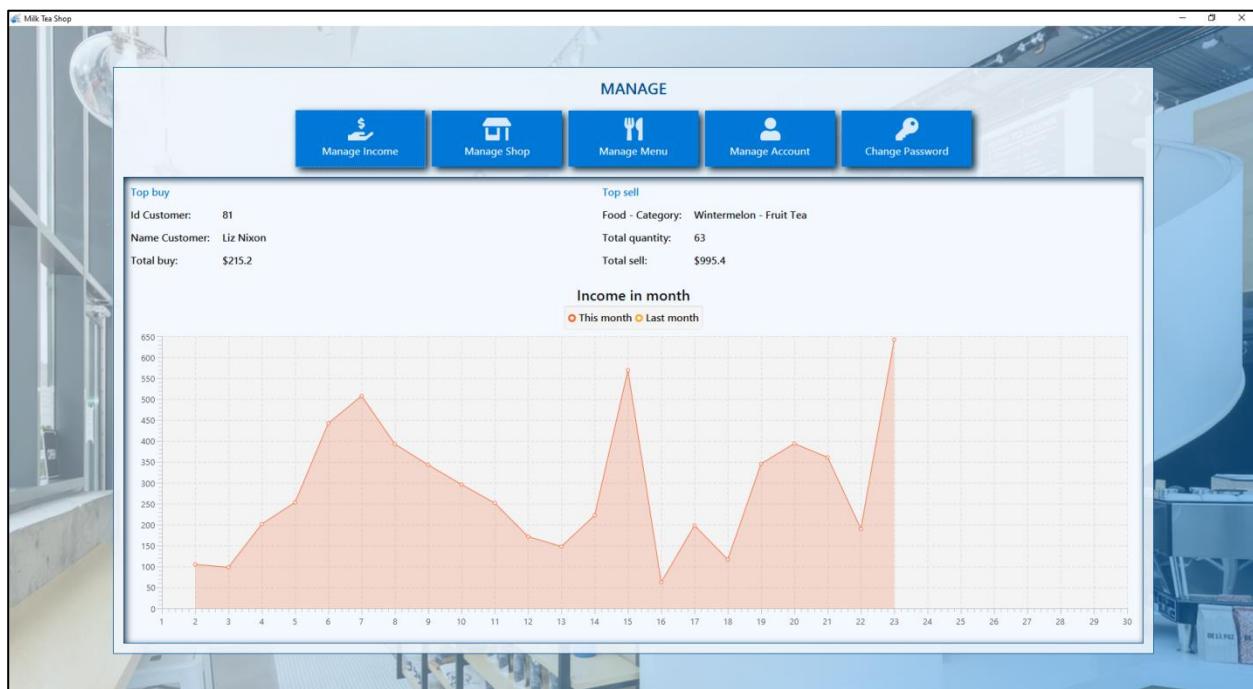


Figure 21 Manage income form

Name control	Description
Id customer label	Display id of top customer
Nam customer label	Display name of top customer
Total buy label	Display total buy of top customer
Food label	Display name food and category of top food
Total quantity label	Display total quantity of top food

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Interface Design	SWD/Form No. 5
Effective Date: 15-10-2019	Version: 1.0	Page 24 of 24

Total sale label	Display total sale of top food
Income area chart	Display income this month and last month

Date:	Prepared by (Student)	Approved by (Teacher)
15-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Table Design	SWD/Form No. 6
Effective Date: 21-10-2019	Version: 1.0	Page 1 of 2

8 TABLE DESIGN DOCUMENTATION

Name of the Table	Table Description	Number of Fields	Primary Key	Related Tables	Foreign Key
Account	User account in the system.	11	id		
Table	Information of table.	4	id		
Category	Category of food.	3	id		
Food	Information of food.	5	id	1. Category	idCategory
Discount	Information of discount.	4	id		
Bill	Information of bill.	8	id	1. Table 2. Account 3. Discount	idTable idCustomer idEmployee idDiscount
BillDetail	Information of bill detail.	8	id	Bill	idBill

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Ha Thi Hong Tham	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Table Design	SWD/Form No. 6
Effective Date: 21-10-2019	Version: 1.0	Page 2 of 2

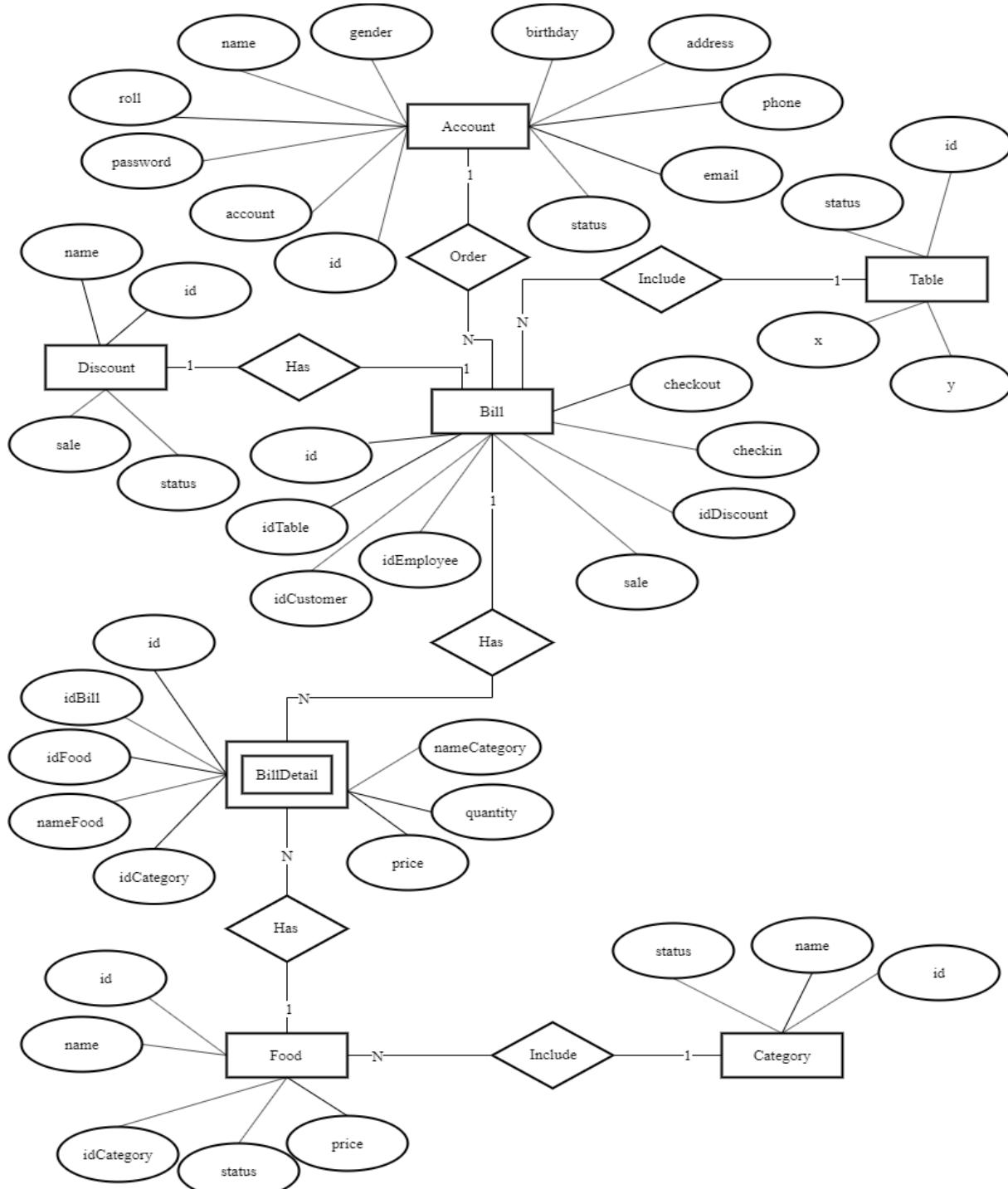


Figure 22: Entity relationship diagram

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Ha Thi Hong Tham	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 1 of 26

9 PROCESS DESIGN DOCUMENTATION

9.1 Context level

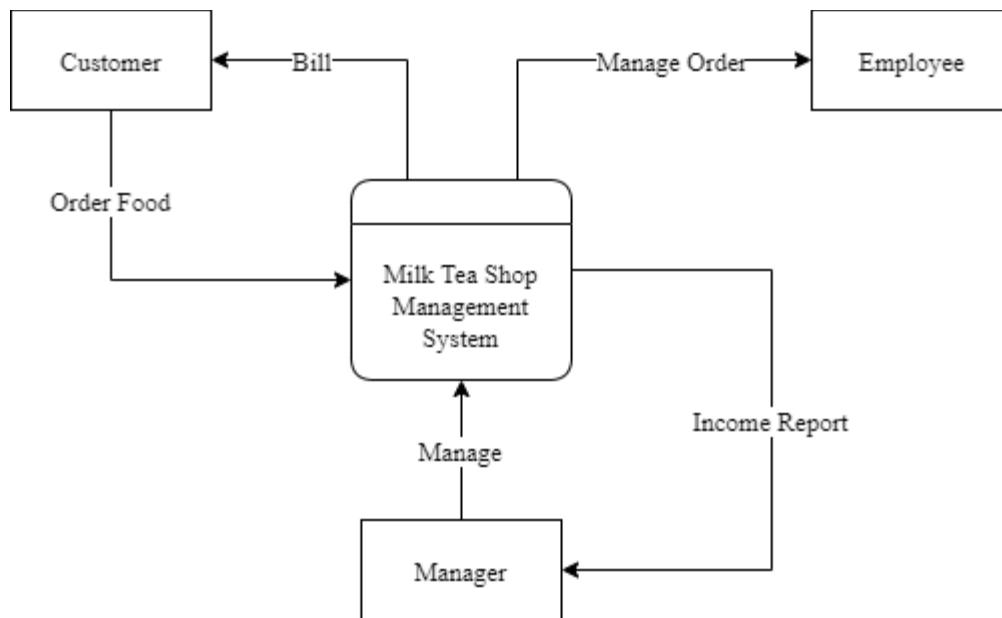


Figure 23: Context level data flow diagram

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 2 of 26

9.2 Level 0

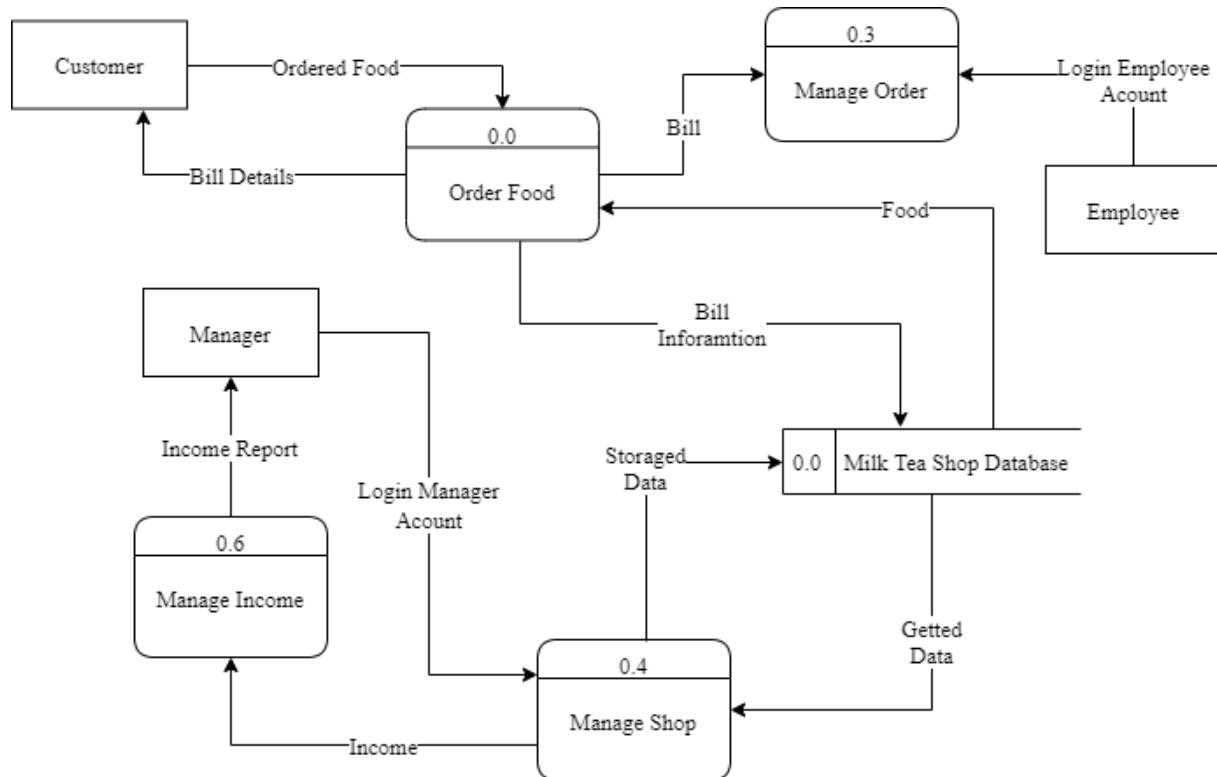


Figure 24: Level 0 data flow diagram

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 3 of 26

9.3 Level 1

9.3.1 Customer

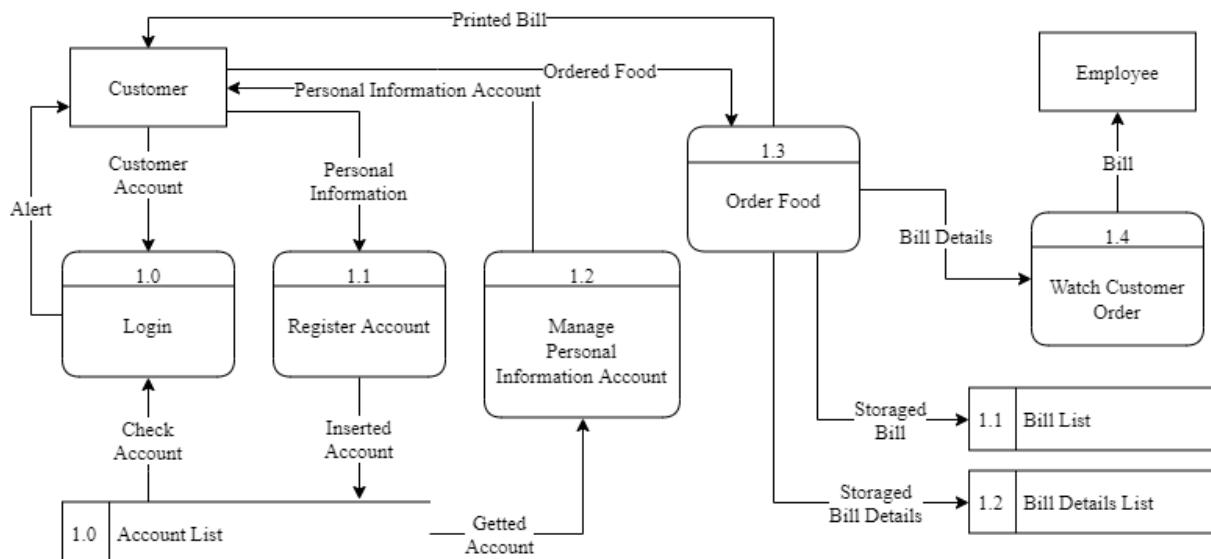


Figure 25: Level 1 dataflow diagram for customer

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 4 of 26

9.3.2 Employee

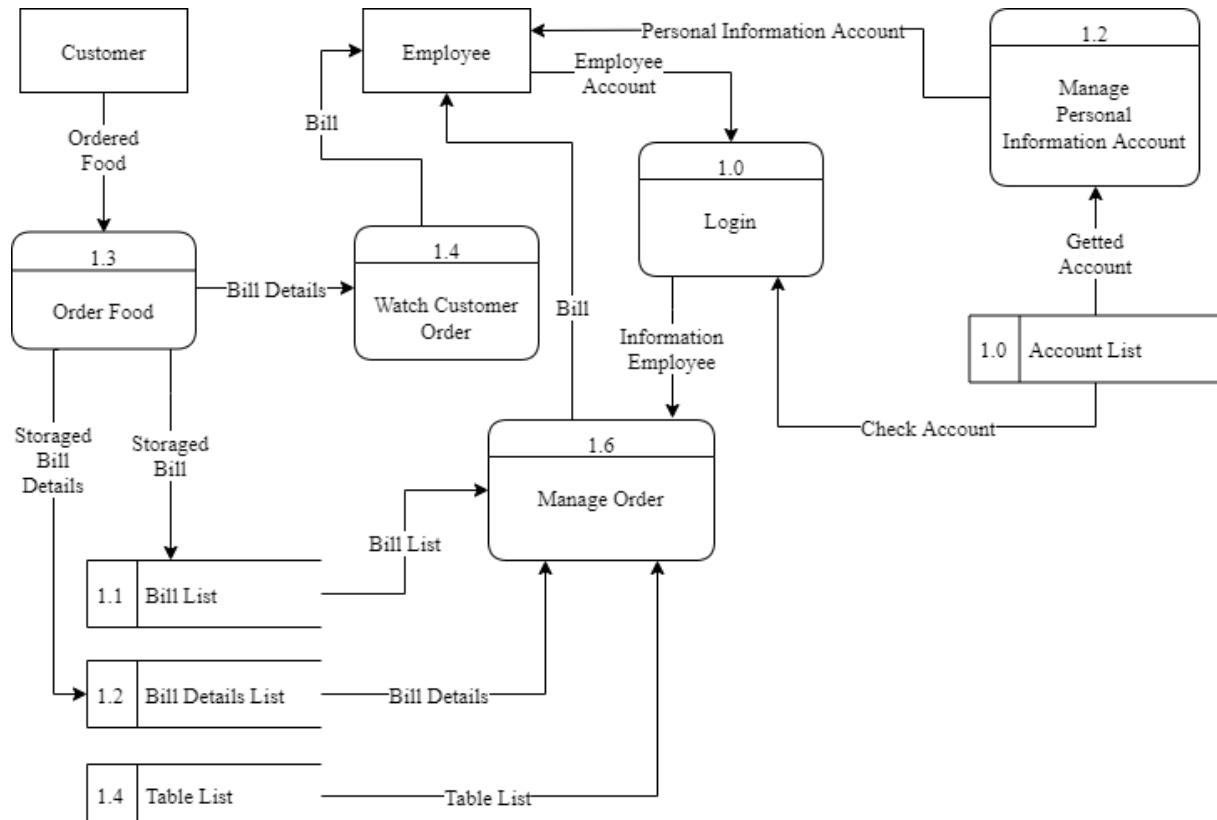


Figure 26: Level 1 data flow diagram for employee

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 5 of 26

9.3.3 Manager

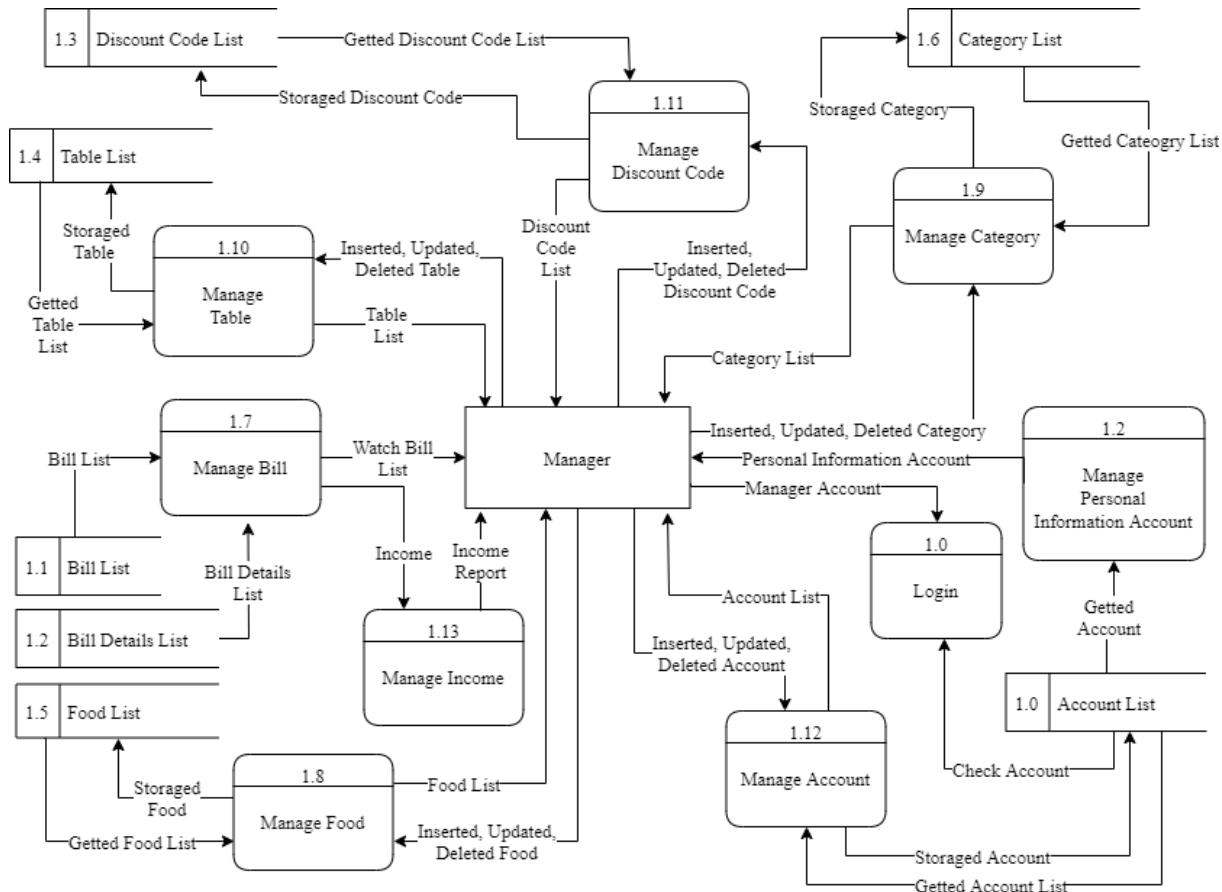


Figure 27: Level 1 data flow diagram for manager

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 6 of 26

9.4 Level 2

9.4.1 Customer

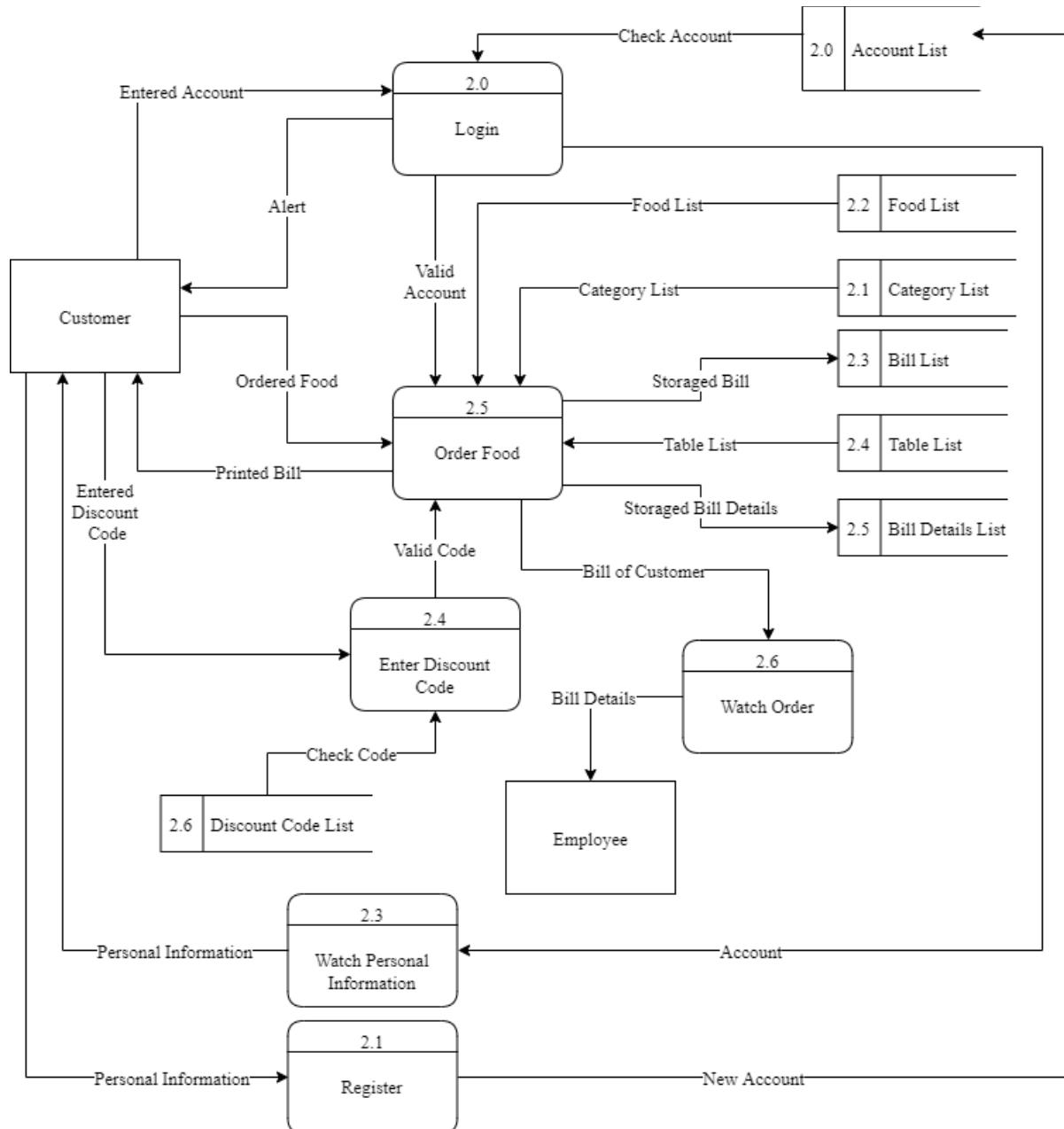


Figure 28: Level 2 data flow diagram for customer

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 7 of 26

9.4.2 Employee

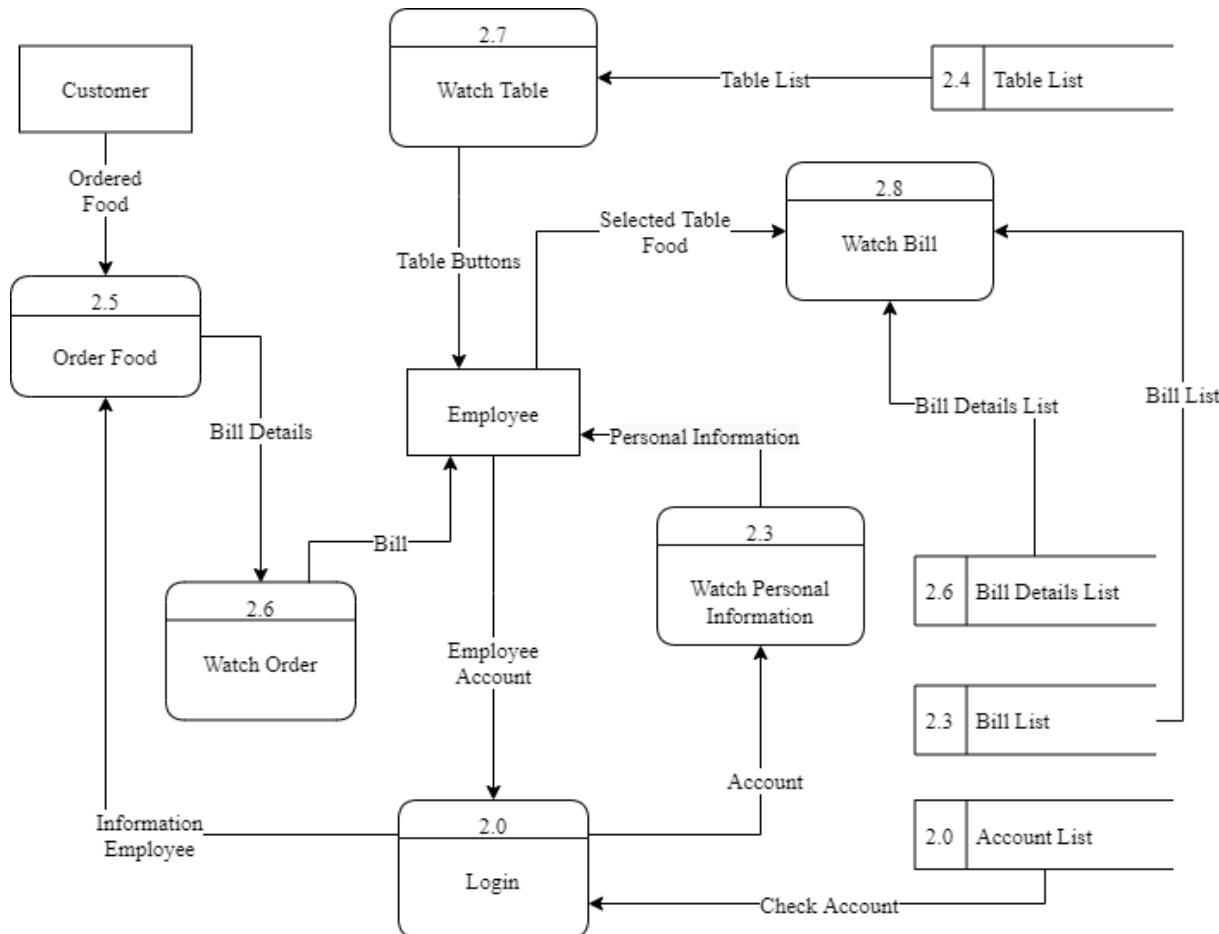


Figure 29: Level 2 data flow diagram for employee

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 8 of 26

9.4.3 Manager

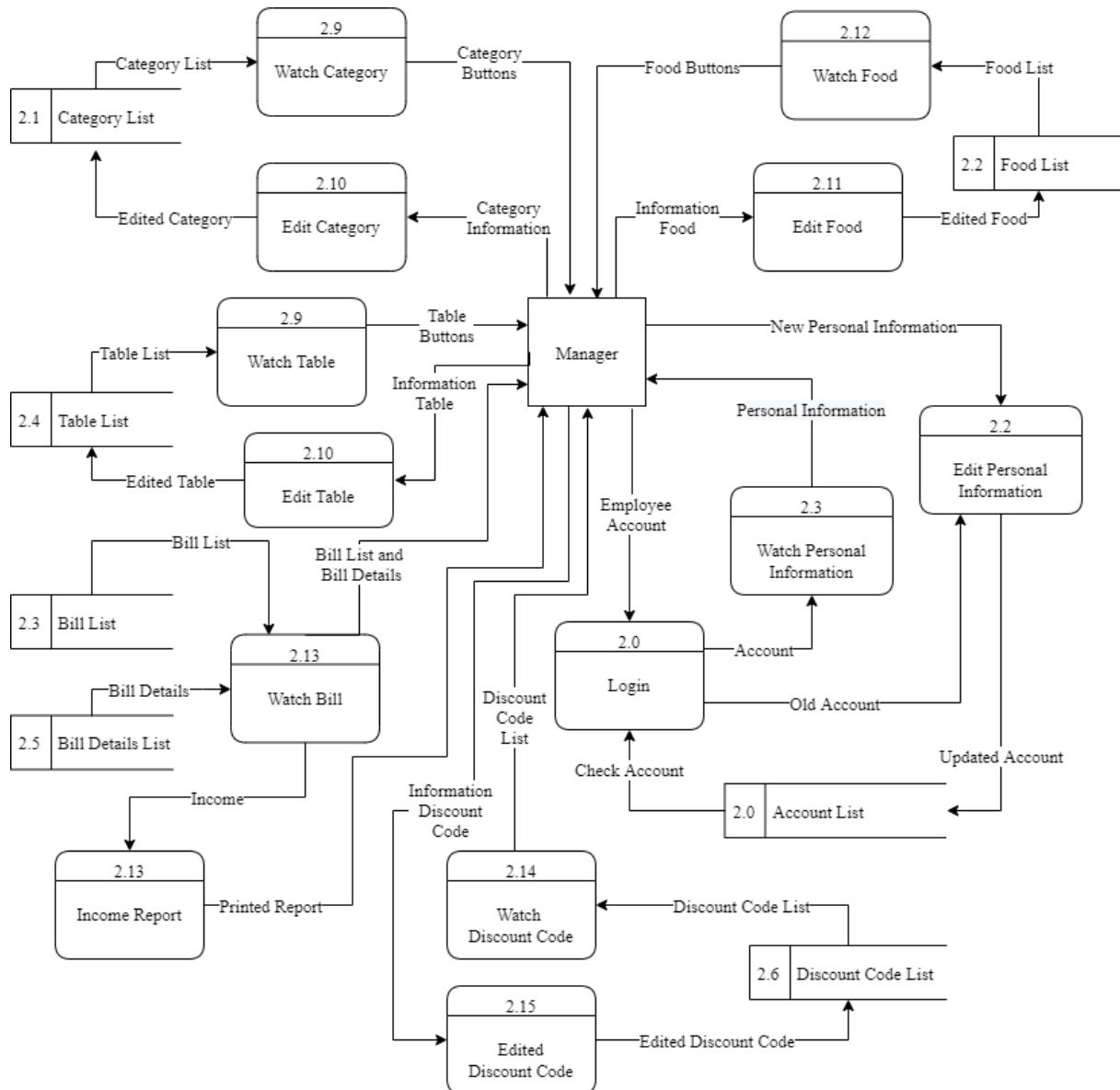


Figure 30: Level 2 dataflow diagram for manager

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 9 of 26

9.5 Level 3 for Order food process

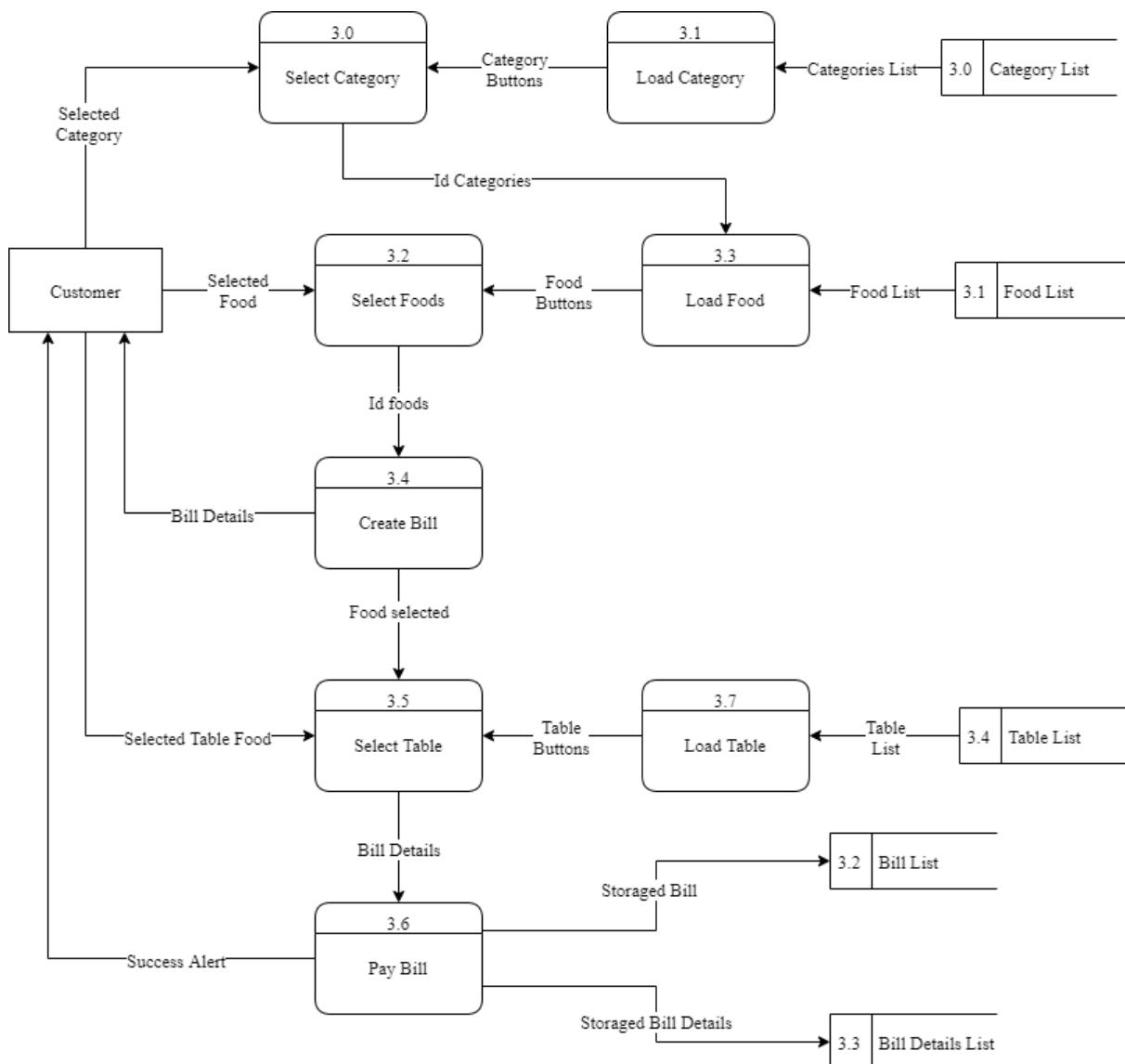


Figure 31: Level 3 dataflow diagram for Order food process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 10 of 26

9.6 Flow chart diagram

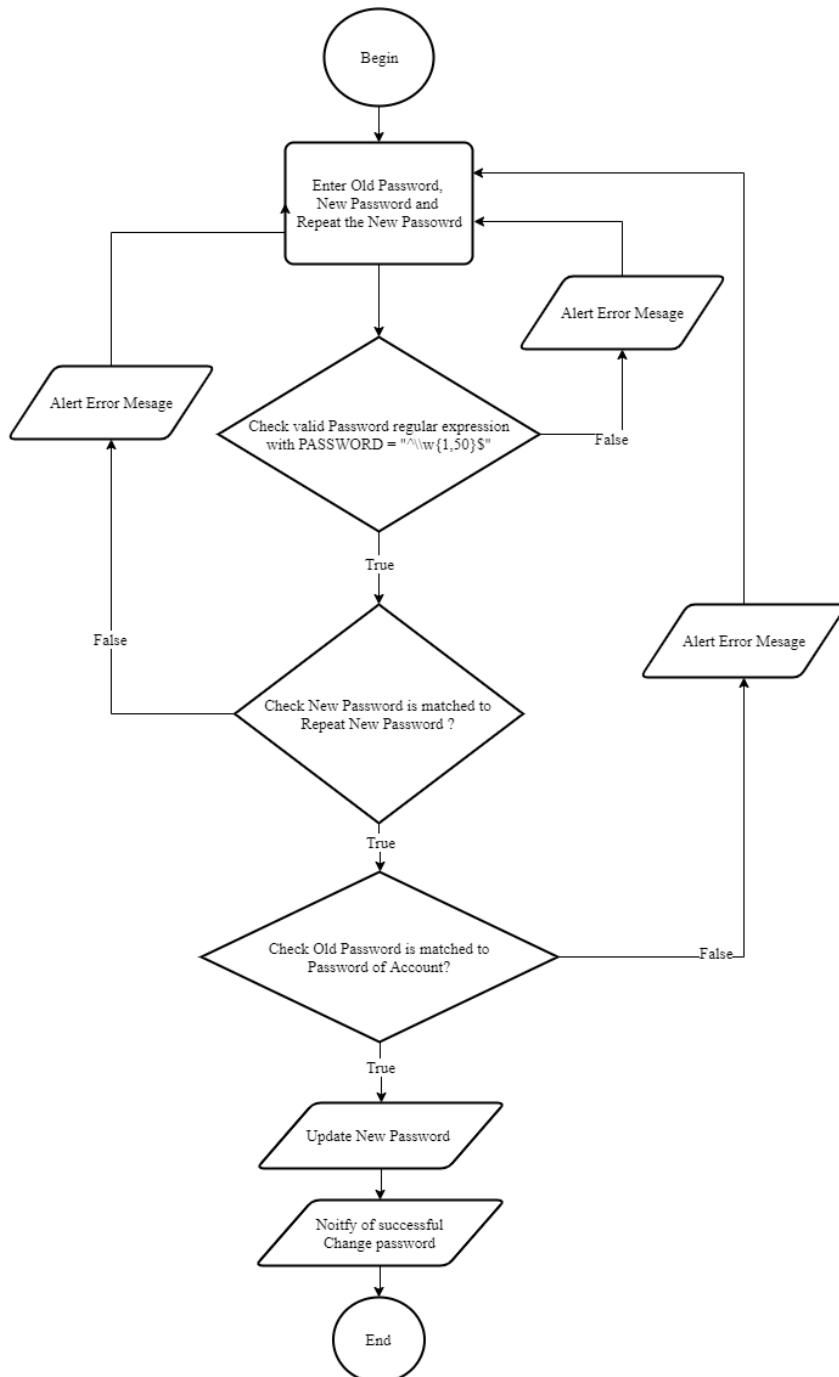


Figure 32: Change password process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 11 of 26

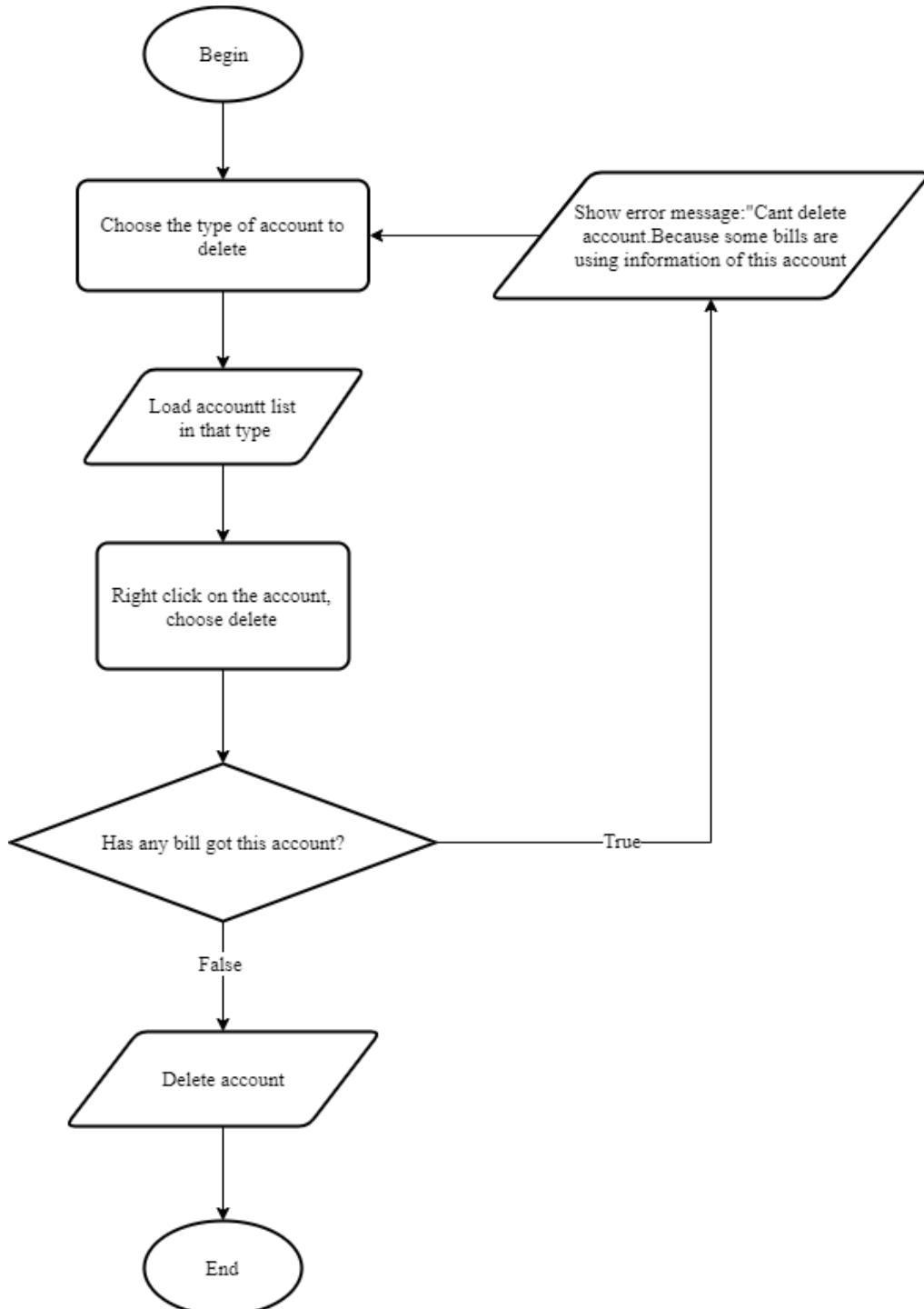


Figure 33: Delete account process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 12 of 26

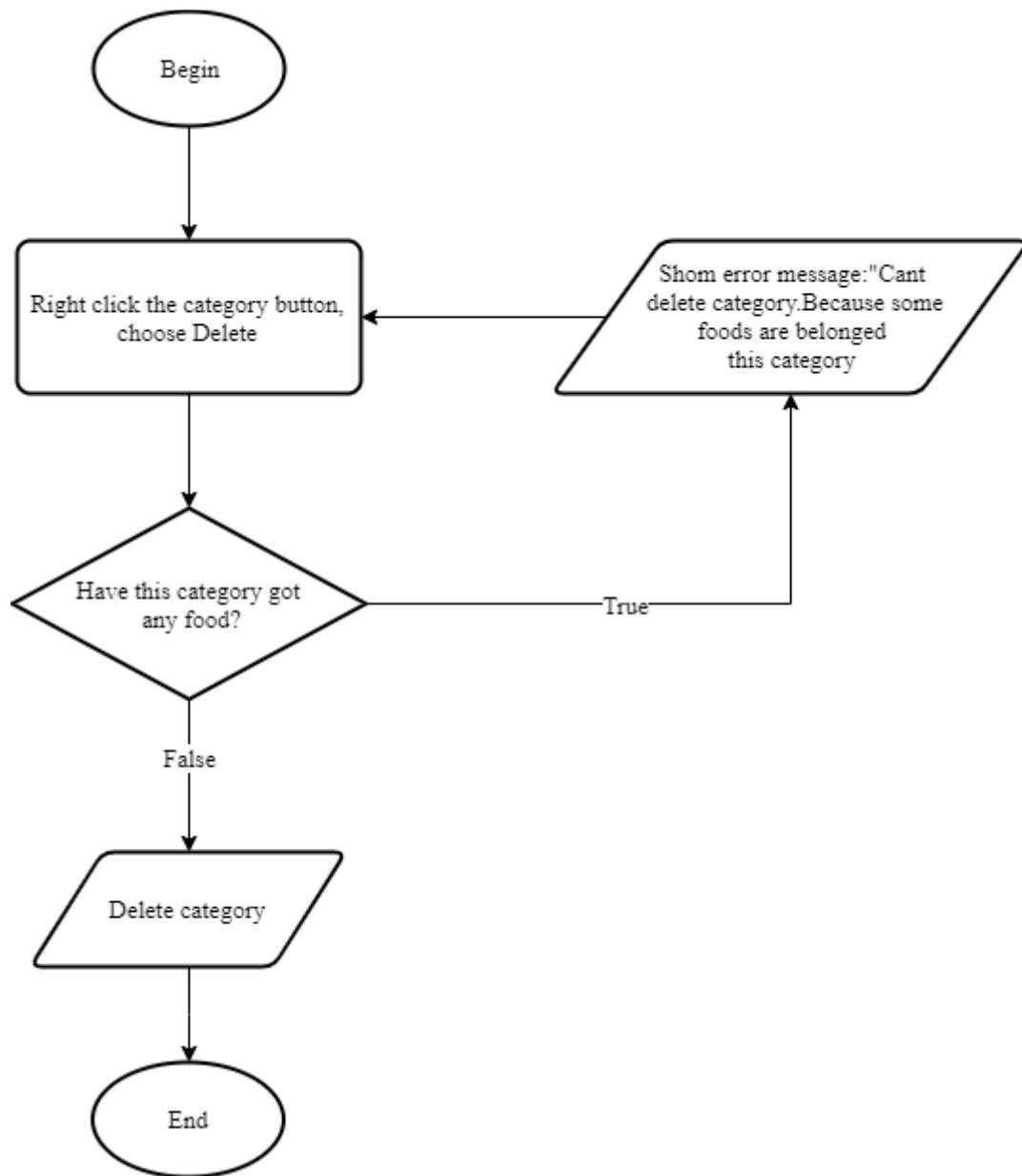


Figure 34: Delete category

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 13 of 26

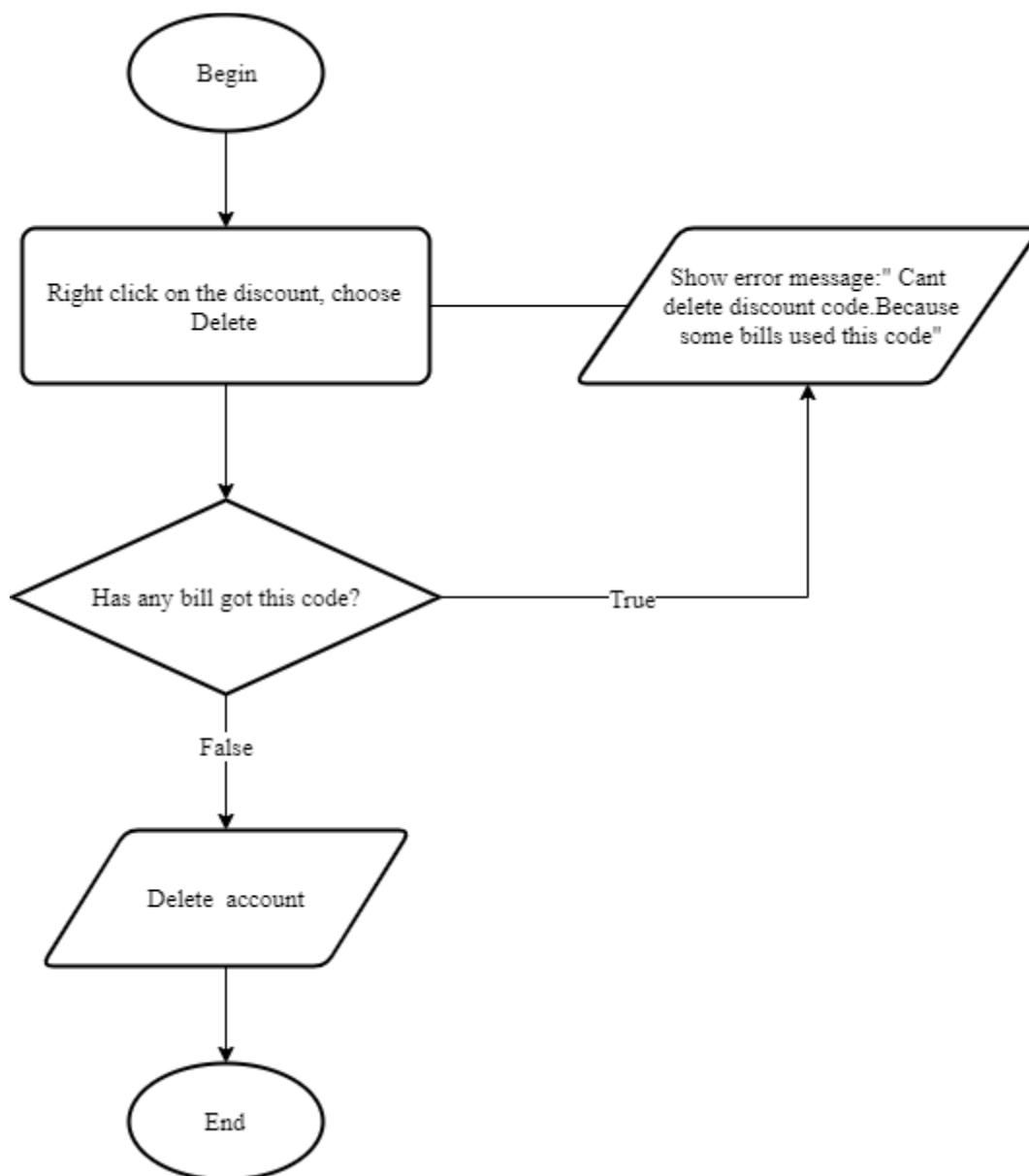


Figure 35: Delete discount code process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 14 of 26

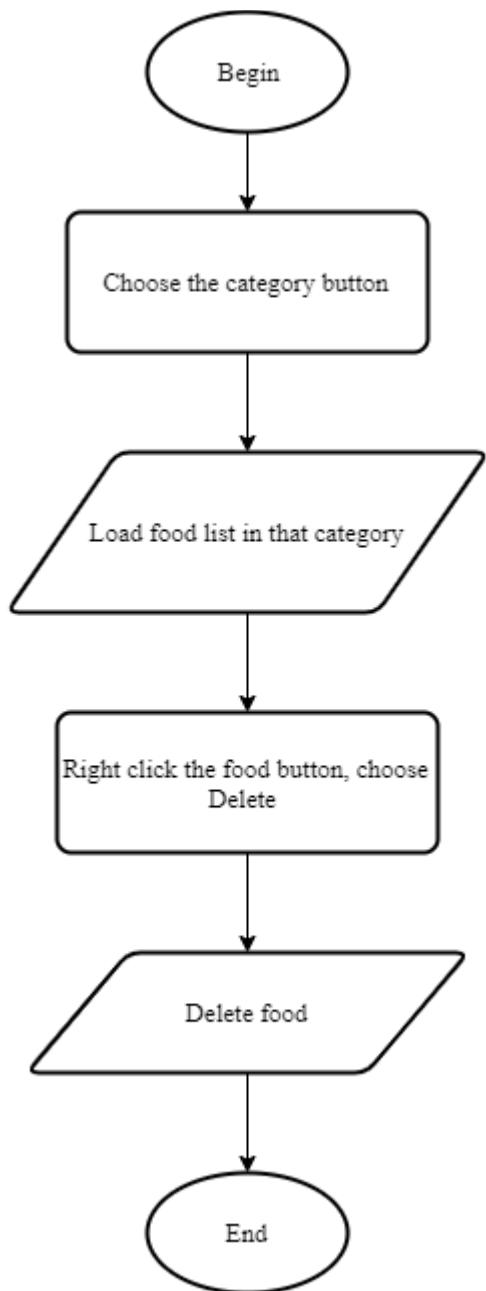


Figure 36: Delete food process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 15 of 26

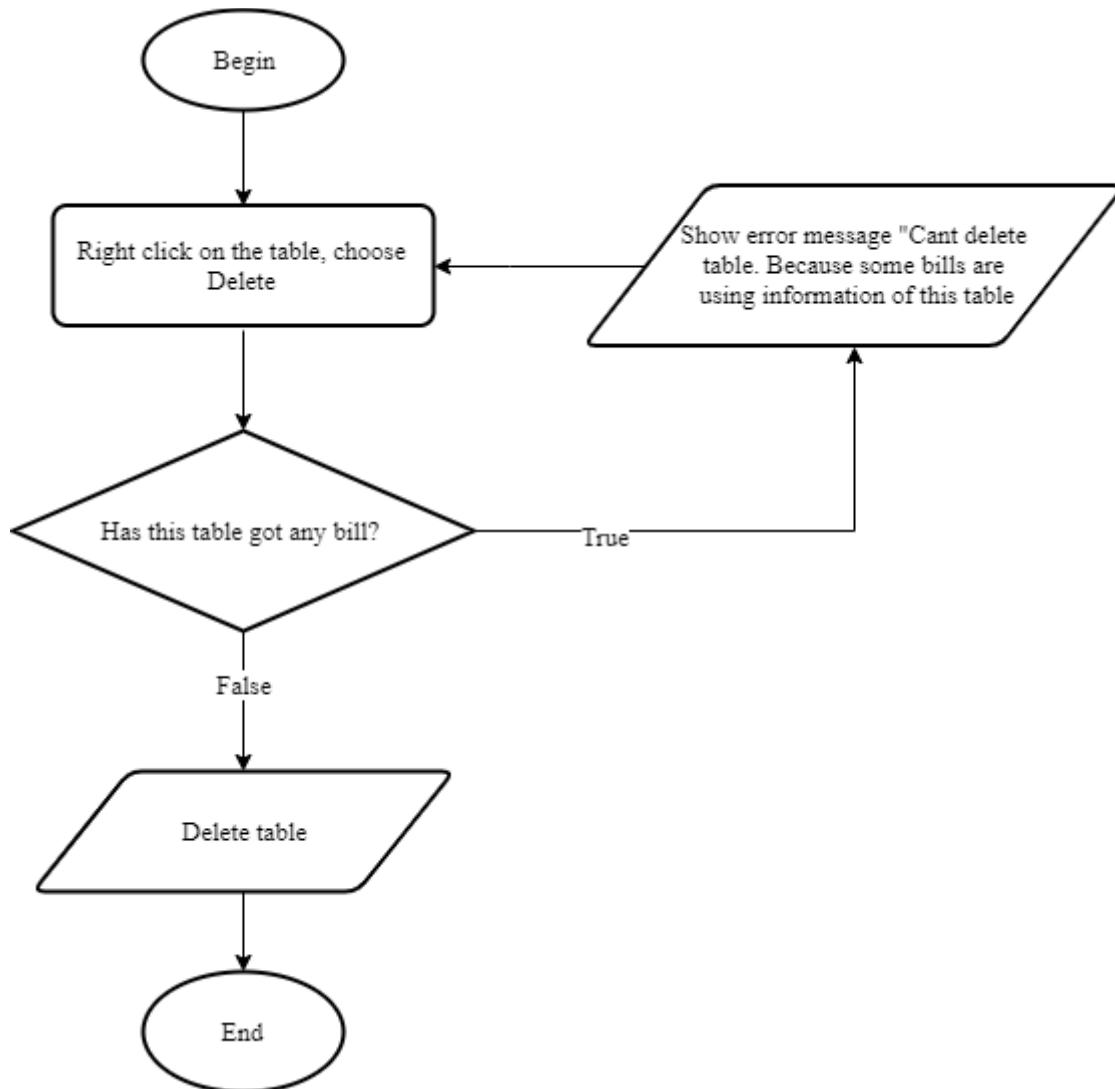


Figure 37: Delete table process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 16 of 26

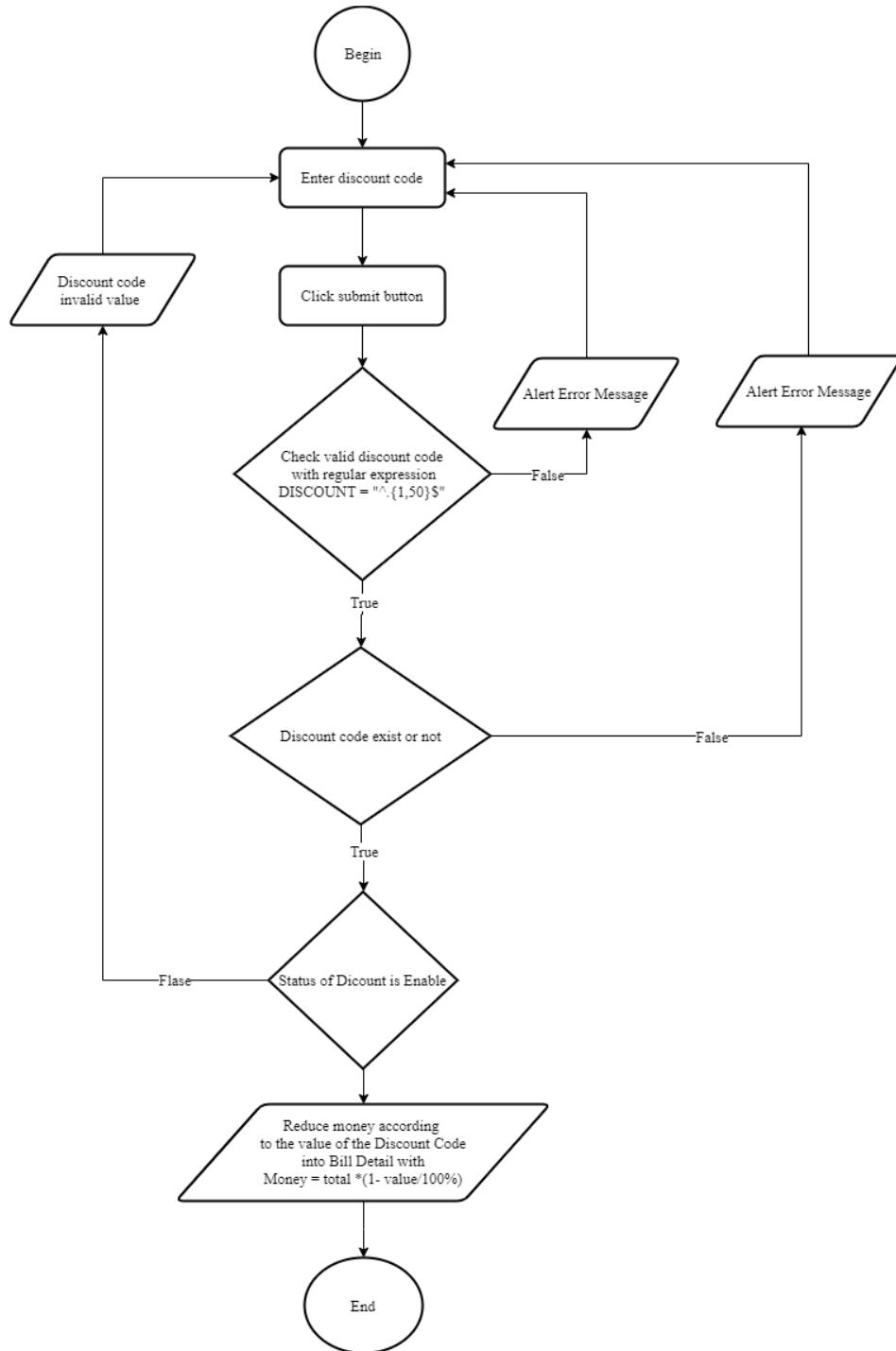


Figure 38: Enter discount code process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 17 of 26

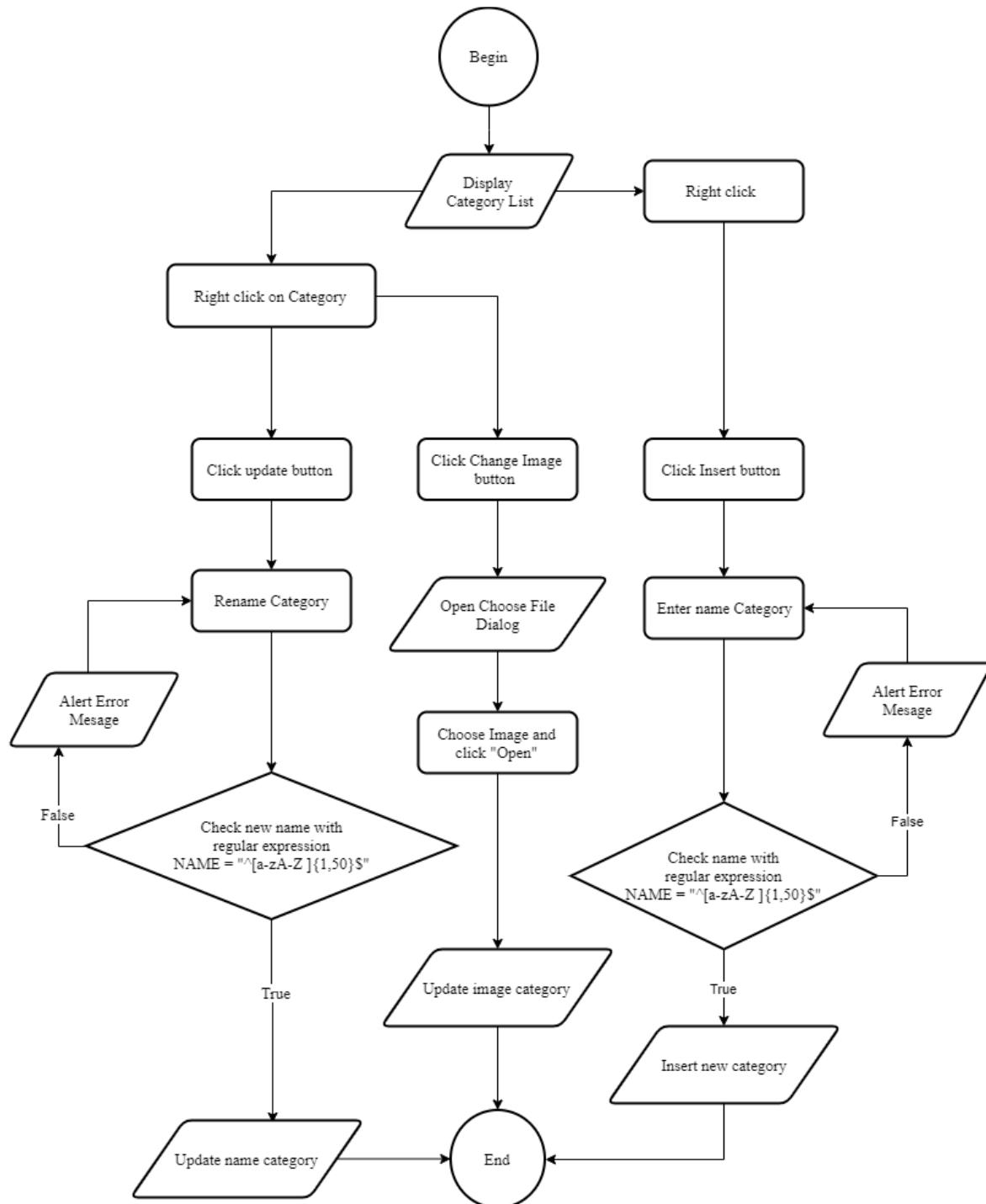


Figure 39: Insert, update and change image category process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 18 of 26

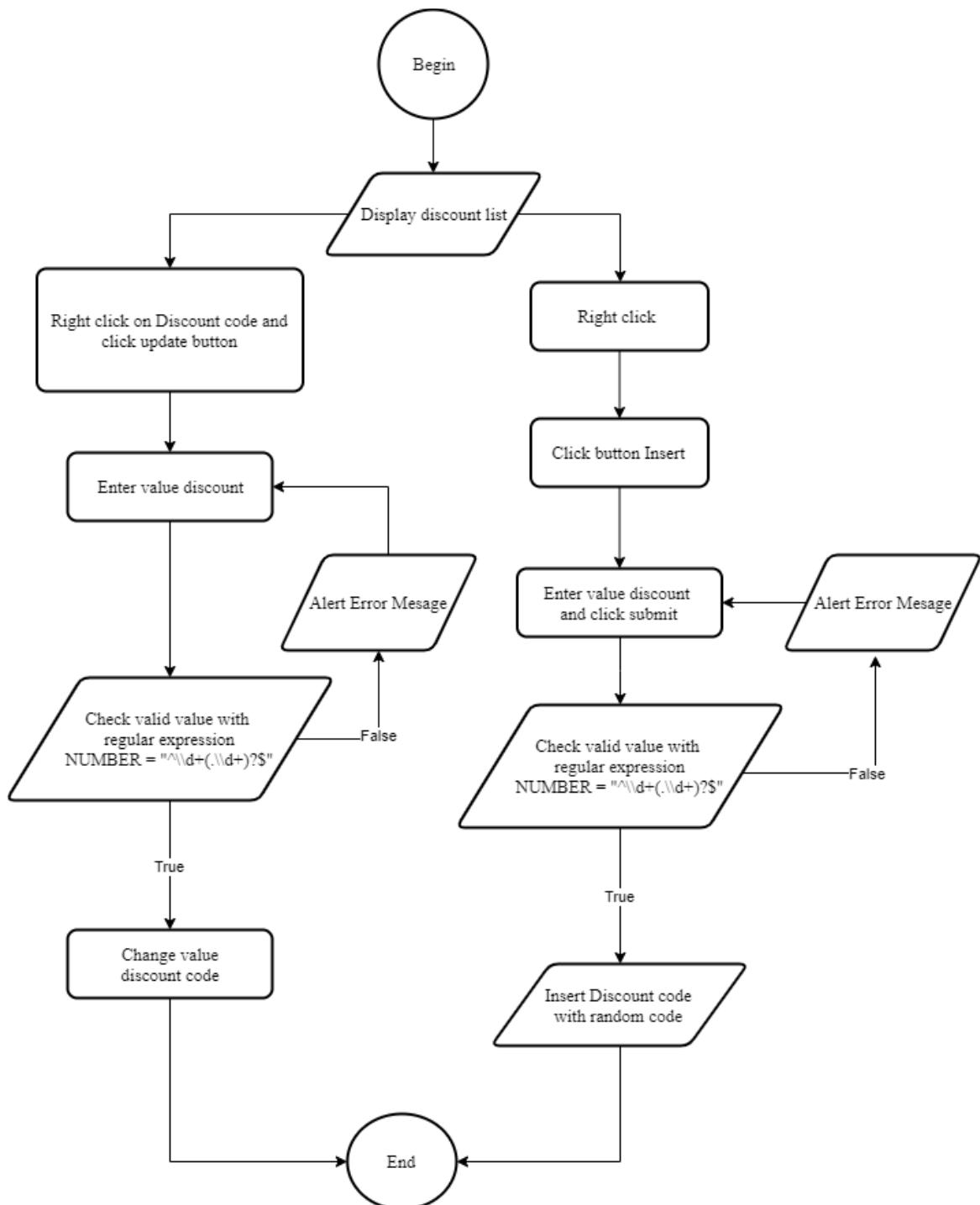


Figure 40: Insert and update discount code process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 19 of 26

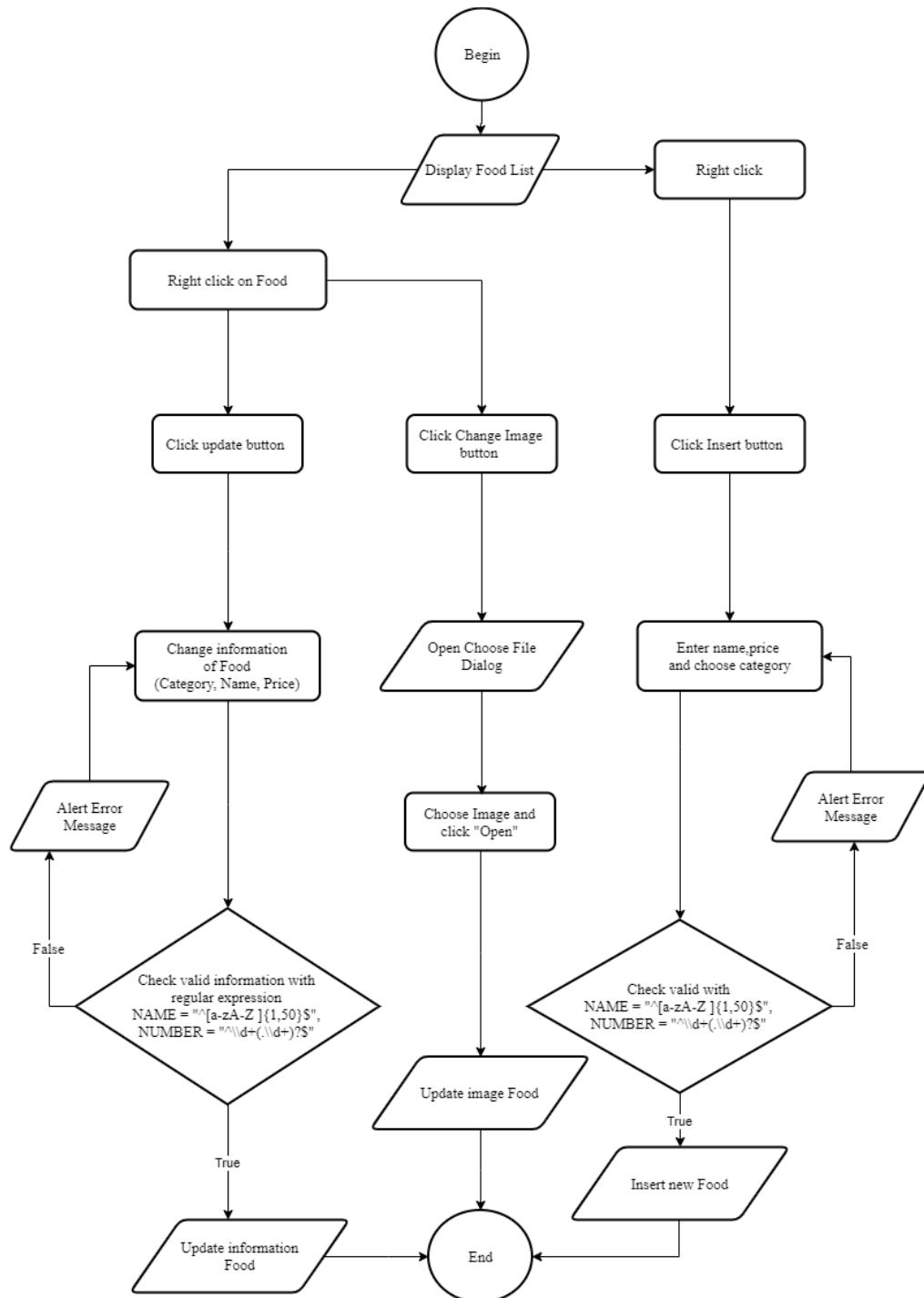


Figure 41: Insert, update and change image food process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 20 of 26

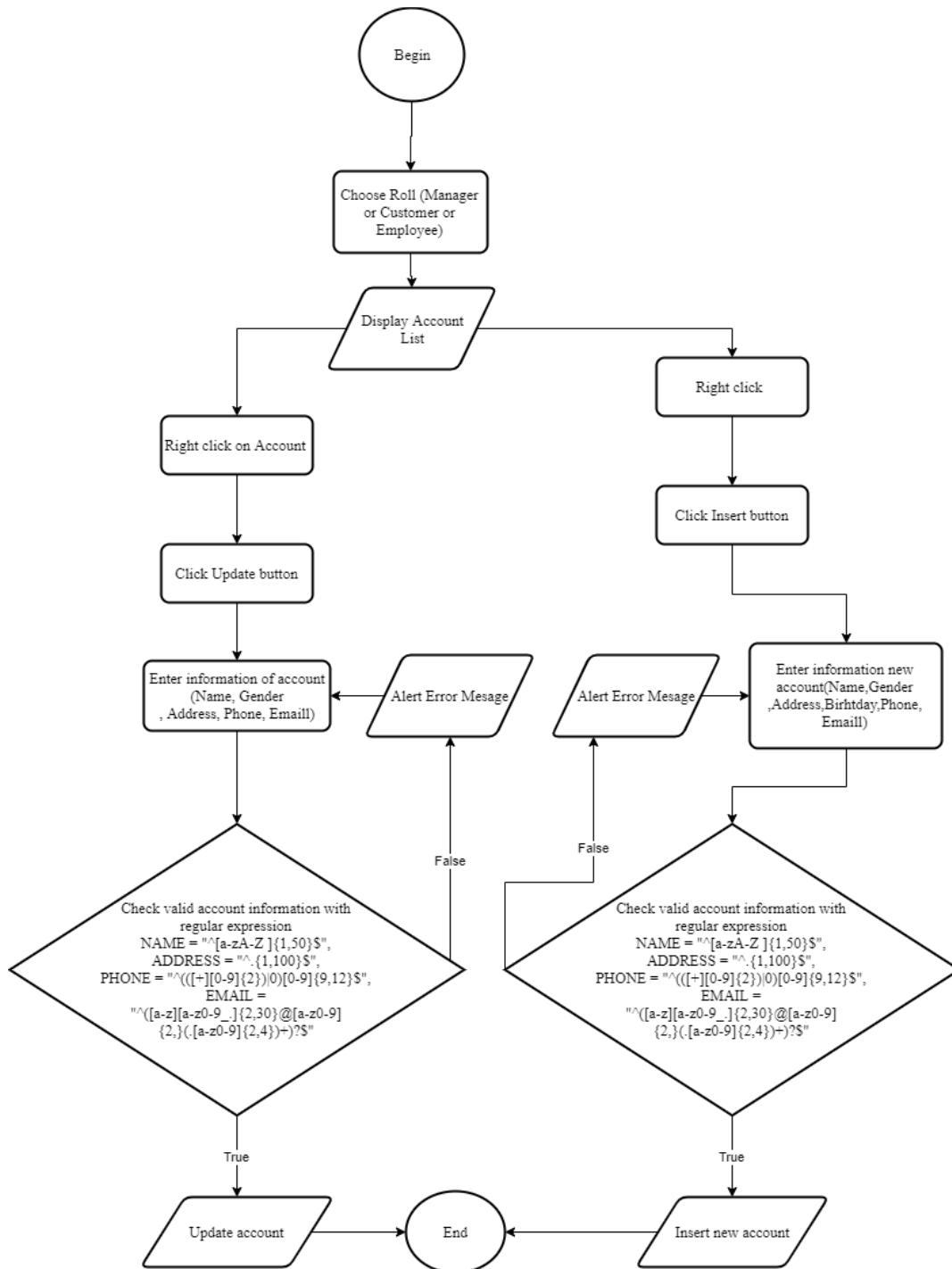


Figure 42: Insert and update account process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 21 of 26

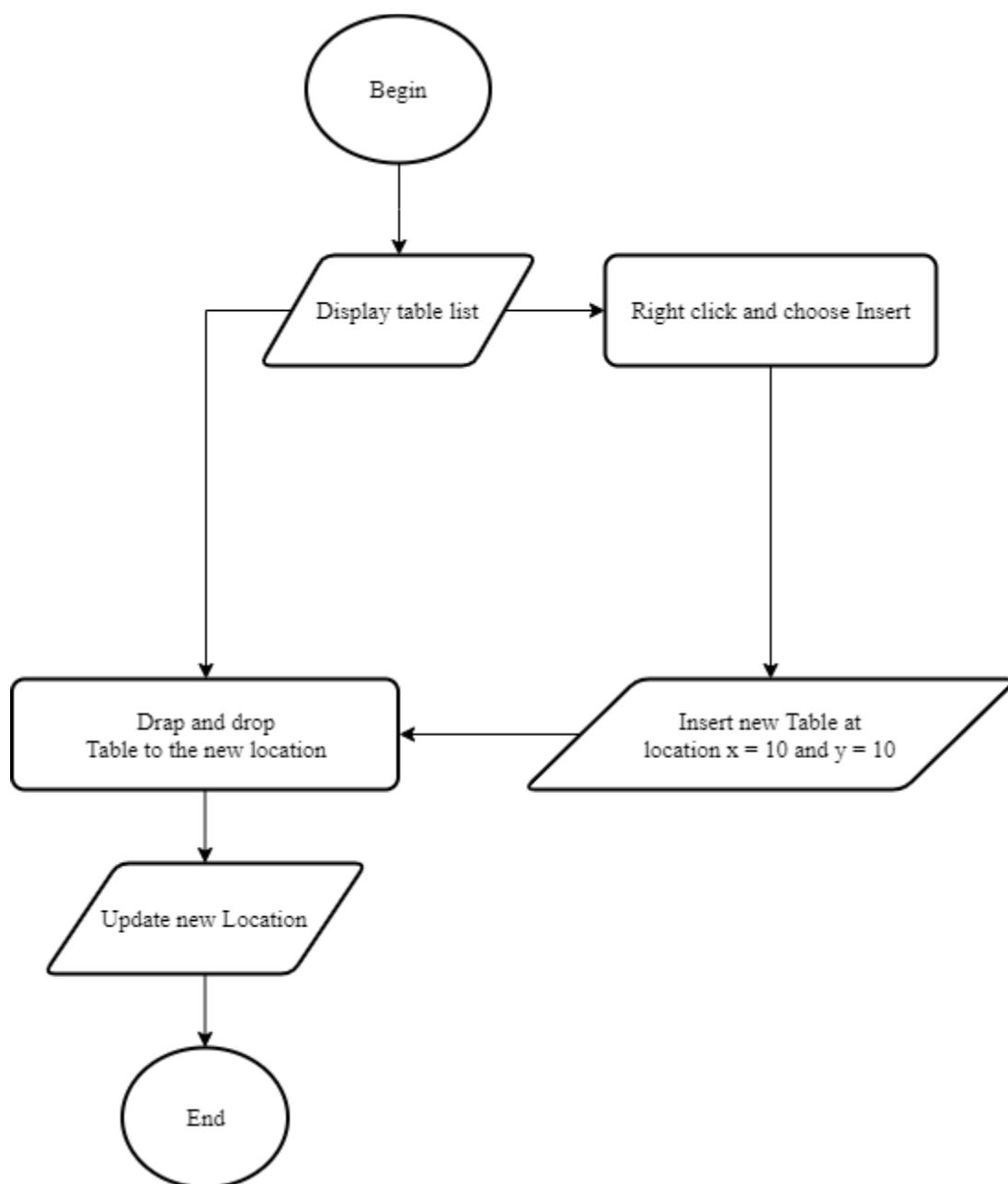


Figure 43: Insert and update table process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 22 of 26

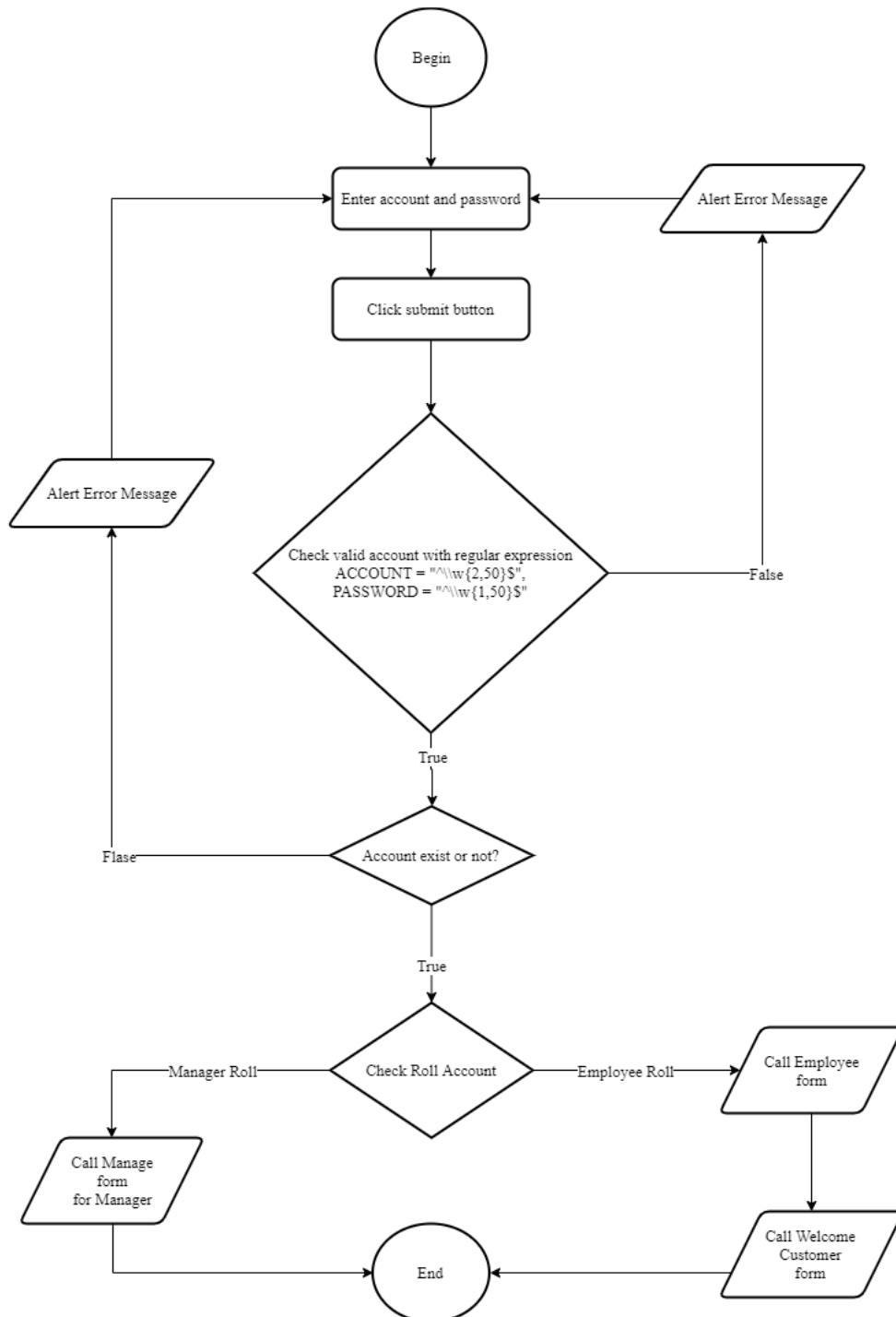


Figure 44: Login process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 23 of 26

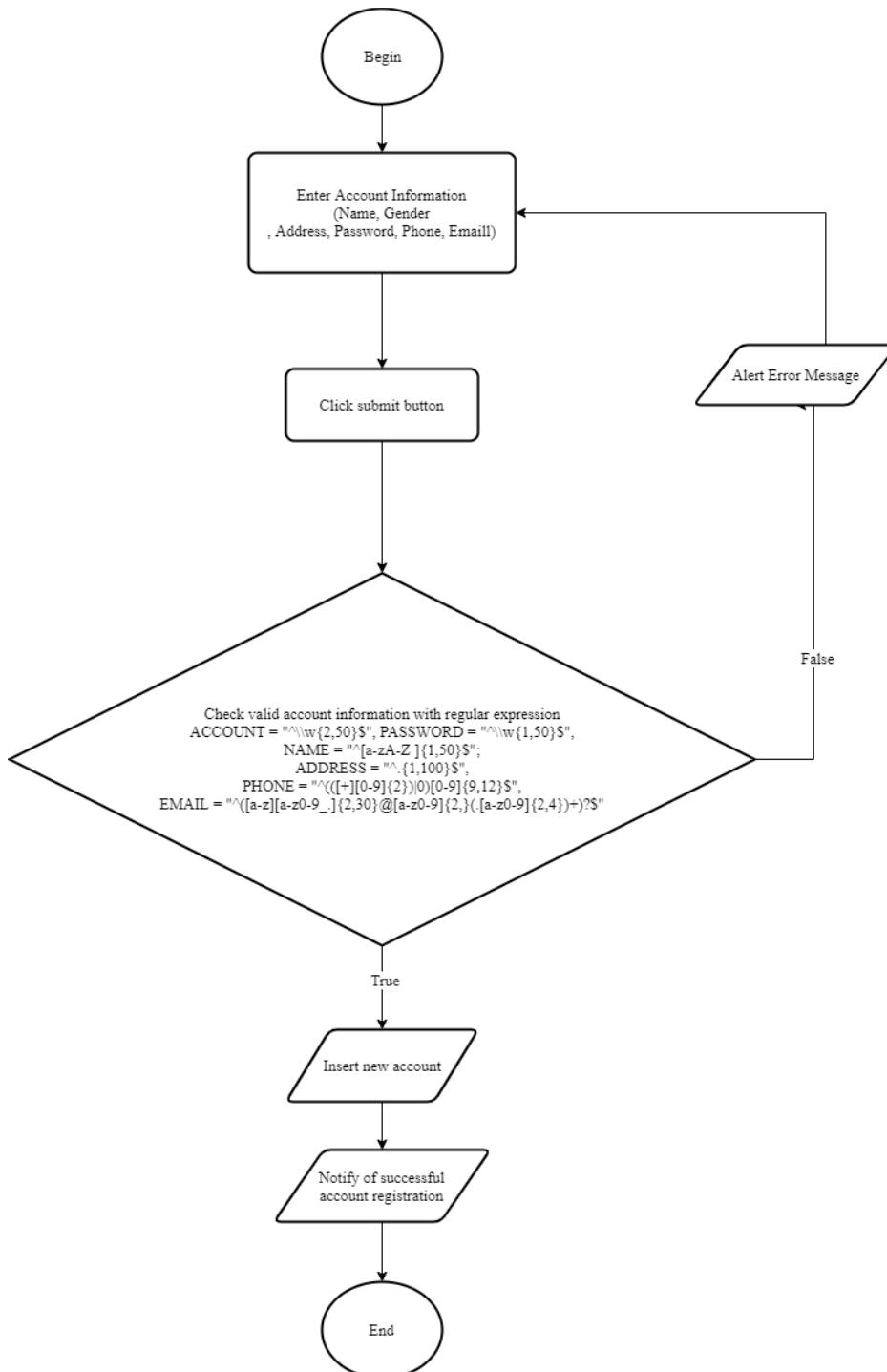


Figure 45: Register process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 24 of 26

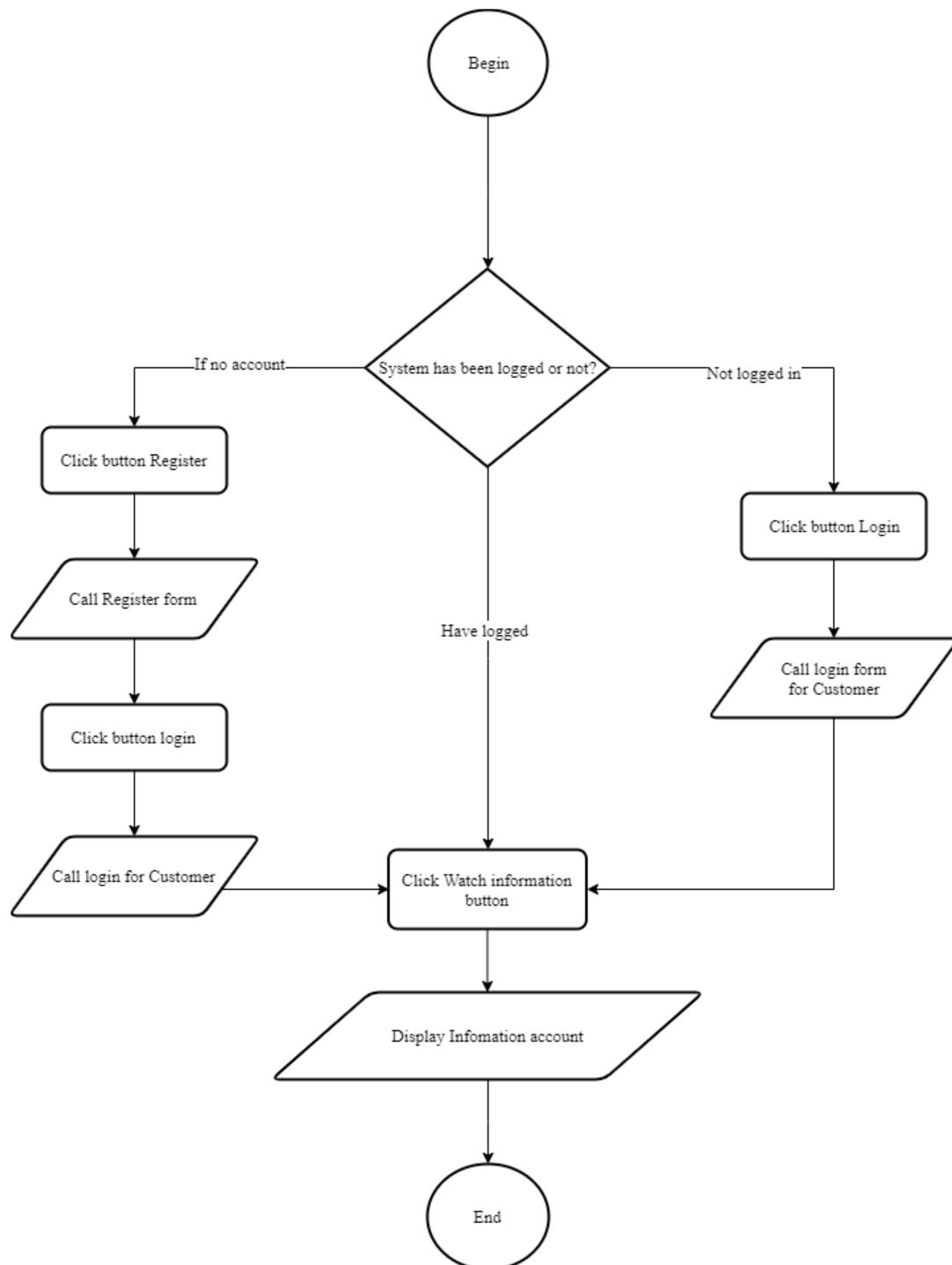


Figure 46: Watch information account process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 25 of 26

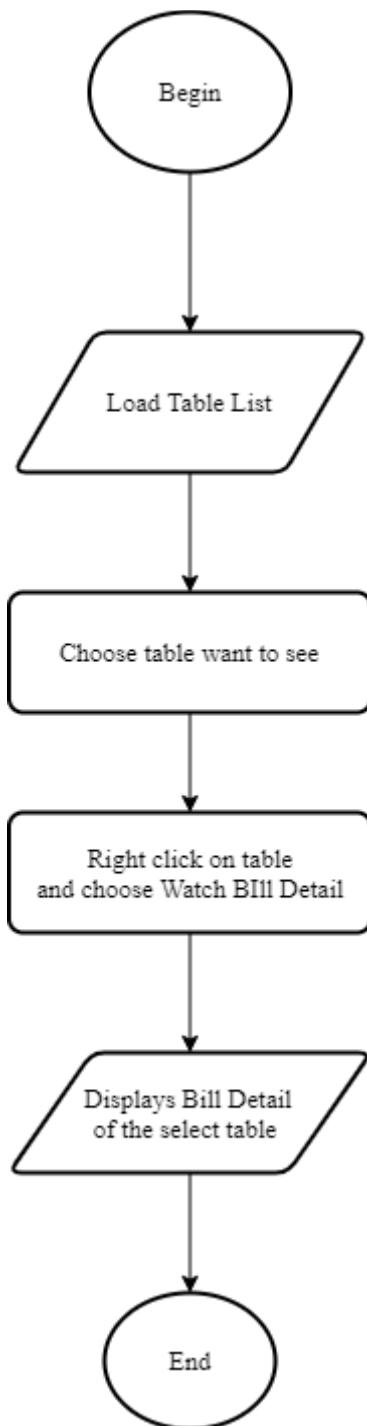


Figure 47: Watch bill details process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Process Design	SWD/Form No. 7
Effective Date: 21-10-2019	Version: 1.0	Page 26 of 26

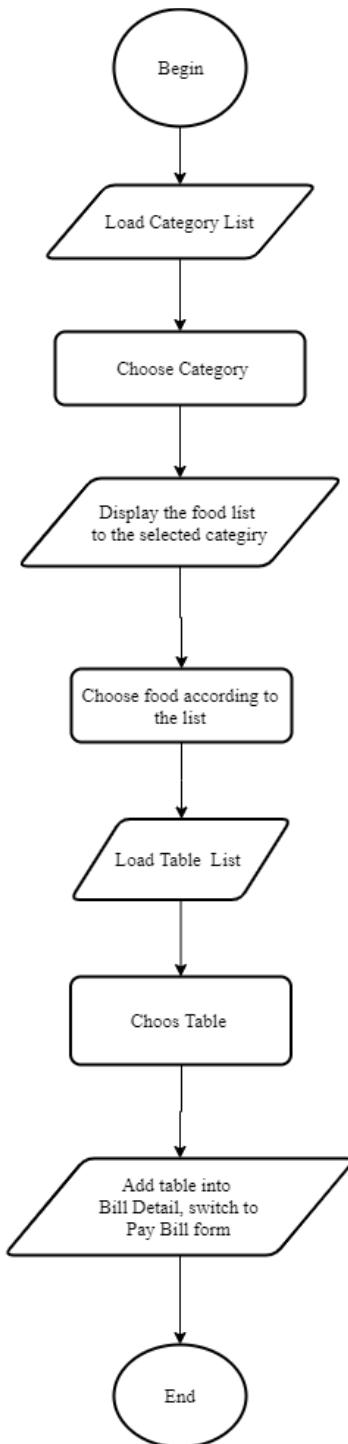


Figure 48: Order process

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Coding Standard	SWD/Form No. 8
Effective Date: 21-10-2019	Version: 1.0	Page 1 of 2

10 CODING STANDARD DOCUMENTATION

10.1 Programming Standards.

- Every button should have an Icon for expressing, image icons have to store in the folder at source “<ProjectName>/src/asset” and have extension is “.png”.
- Images of food and category store in asset folder ar source “<ProjectName>/asset/food” and “<ProjectName>/asset/category”
- Must have declaration part for classes and interfaces using for the project.

10.2 Standards for code writing style

- The package name should be in all lowercase letters. Example: controller, view.
- Names for data types must be nouns, and be spelled out by words that begin with an uppercase character. Example: ViewLogin, ViewChangePassword.
- Variable names must start with a lowercase letter, the next words begin with a capital letter. Example: name, controllerLogin.
- The constant name must be all capital letters, words separated by underscore "_". Example: CONNECT_STRING.
- The method names must be verbs that start with a lowercase letter, and subsequent words are clearly spelled out by words starting with a capital letter. Example: getName(), setName(), login(), update().
- Abbreviations should not include all capital letters (unless it is in a constant name).
- All names should be written in English.
- Wide range (global) variables should be long-named, narrow-range (local) variables should be short-named. Example:
 - For local variables:
 for (int i = 0; i < 10; i++) {
 // Do somethings.
 }

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Tan Tan Lap	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Coding Standard	SWD/Form No. 8
Effective Date: 21-10-2019	Version: 1.0	Page 2 of 2

- For global variables:

```
public class ControllerAdminLogin {
    private TextField nameTextField;
    private TextField passwordField;
}
```

- The name of control have name class of control after the name, Example: nameTextField, birthdayDatePicker.
- The keyword "set / get" must be placed in methods that directly access the property.
- The array, list (set of multiple objects) name should be named in the plural. Example: foods, bills, accounts.

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: Task Sheet	SWD/Form No. 9
Effective Date: 21-10-2019	Version: 1.0	Page 1 of 3

11 TASK SHEET

Project Ref. No.:	Project Title: Milk Tea Shop	Plan Prepared By: Dao Minh Trung Thuan		Date of Preparation of Activity Plan:		
Task Sub division	Description	Planned Start Date	Actual Start Date	Actual Days	Team Member Names	Status
Form No:1	Problem Definition Document	15-10-2019	16-10-2019	2	Ha Thi Hong Tham	100%
Form No:2A	Customer Requirement Specification	15-10-2019	16-10-2019	2	Tan Tan Lap	100%
Form No:2B	Customer Acceptance Criteria	15-10-2019	16-10-2019	2	Dao Minh Trung Thuan	100%
Form No:3	Project Plan	15-10-2019	16-10-2019	2	Dao Minh Trung Thuan	100%

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Task Sheet	SWD/Form No. 9
Effective Date: 21-10-2019	Version: 1.0	Page 2 of 3

Form No:4	GUI Standards Document	15-10-2019	16-10-2019	2	Dao Minh Trung Thuan	100%
Form No:5	Interface Design Document	15-10-2019	16-10-2019	2	Dao Minh Trung Thuan	100%
Form No:6	Table Design Document	21-10-2019	22-10-2019	2	Ha Thi Hong Tham	100%
Form No:7	Process Design Document	21-10-2019	22-10-2019	2	Tan Tan Lap	100%
Form No:8	Coding Standards Document	21-10-2019	22-10-2019	2	Tan Tan Lap	100%
Form No:9	Task Sheet	21-10-2019	22-10-2019	2	Dao Minh Trung Thuan	100%

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Task Sheet	SWD/Form No. 9
Effective Date: 21-10-2019	Version: 1.0	Page 3 of 3

Form No:10	Testing Document	18-11-2019	19-11-2019	2	Dao Minh Trung Thuan	100%
Form No:11	Project Review	25-11-2019	25-11-2019	1	Dao Minh Trung Thuan	100%
Form No:12	Final Check List	25-11-2019	25-11-2019	1	Dao Minh Trung Thuan	100%
Form No:13	Installation Guide	25-11-2019	25-11-2019	1	Dao Minh Trung Thuan	100%
Form No:14	User Guide	25-11-2019	25-11-2019	1	Dao Minh Trung Thuan	100%

Date:	Prepared by (Student)	Approved by (Teacher)
21-10-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Testing	SWD/Form No. 10
Effective Date: 18-11-2019	Version: 1.0	Page 1 of 1

12 TESTING DOCUMENTATION

Sr. No.	Features Tested	Remarks
1	Test user interface	Good
2	Test database	Good
3	Test functions of software	Good
4	Test activities	Good
5	Test invalid information input	Good
6	Test documentation	Good
7	Test final	Good

Date:	Prepared by (Student)	Approved by (Teacher)
18-11-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Project Review	SWD/Form No. 11
Effective Date: 25-11-2019	Version: 1.0	Page 1 of 1

13 PROJECT REVIEW

Date:	Project Plan Activity / Milestone	Work Specification	Status of the Activity	Remarks	Responsibility
15-10-2019	19-10-2019	Take Customer's information	Finished	Good	Dao Minh Trung Thuan Ha Thi Hong Tham Tan Tan Lap
19-10-2019	23-10-2019	Design	Finished	Good	Dao Minh Trung Thuan
23-10-2019	21-11-2019	Coding	Finished	Good	Dao Minh Trung Thuan Ha Thi Hong Tham Tan Tan Lap
18-11-2019	25-11-2019	Testing	Finished	Good	Dao Minh Trung Thuan

Date:	Prepared by (Student)	Approved by (Teacher)
25-11-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Final Check List	SWD/Form No. 12
Effective Date: 25-11-2019	Version: 1.0	Page 1 of 2

14 FINAL CHECK LIST

S. No.	Aspect tested	Suggestion / Remarks
1	Have all the modules been properly integrated and are they completely functional?	Yes
2	Does each unit meet its objective and purpose?	Yes
3	Are all the validations happening as specified in Process Design?	Yes
4	Have all Design and Coding standards been followed and implemented?	Yes
5	Is the GUI design consistent all over?	Yes
6	Are the code work as per the specification?	Yes
7	Does the application's functionality resolve the client problem, and satisfy his needs completely?	Yes

Date:	Prepared by (Student)	Approved by (Teacher)
25-11-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Final Check List	SWD/Form No. 12
Effective Date: 25-11-2019	Version: 1.0	Page 2 of 2

8	Have the hardware and software been correctly chosen?	Yes
9	Additional features and utilities that give value addition to the entire project.	Yes

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Design Plan: Milk Tea Shop	Document name: Installation Guide	SWD/Form No. 13
Effective Date: 25-11-2019	Version: 1.0	Page 1 of 5

15 INSTALLATION GUIDE

Hardware requirements

CPU	1.8 GHz or faster processor. Quad-core or better recommended.
Ram	4 GB of RAM. 8 GB of RAM recommended.
Hard disk space	Minimum of 800MB up to 256 GB or more of available space depending on increasing database.
Hard disk speed	To improve performance, install Operating System and Project run on SSD drive.
Display screen size	Supports a minimum display 1600 x 900

Software requirements

Operating system	Project will install and run on the following operating systems (Windows 10 64 bit recommended)
Environment	Java 8 (version 1.8.0_231)
Database server	Microsoft SQL Server (SQL Server 2016 recommended) Microsoft SQL Server Management Studio 18 for managing database

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Design Plan: Milk Tea Shop	Document name: Installation Guide	SWD/Form No. 13
Effective Date: 25-11-2019	Version: 1.0	Page 2 of 5

Installation guide documentation:

- Microsoft SQL Server:
 - Install guide: <https://docs.microsoft.com/en-us/sql/database-engine/install-windows/install-sql-server?view=sql-server-ver15>
 - Download: <https://www.microsoft.com/en-us/sql-server>
- Microsoft SQL Server Management Studio:
 - Install guide and download: <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15>
- JRE 1.8.0_231
 - Install guide: https://docs.oracle.com/javase/8/docs/technotes/guides/install/install_overview.html#A1096936
 - Download: <https://www.java.com/en/>

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Design Plan: Milk Tea Shop	Document name: Installation Guide	SWD/Form No. 13
Effective Date: 25-11-2019	Version: 1.0	Page 3 of 6

Install application

First, your computer must have all above software requirements and unzip application, recommend using WinRAR archiver or you can use unzip tool of Windows 10.

Right click on MilkTeaShop.zip, choose Open with, then select Windows Explorer.

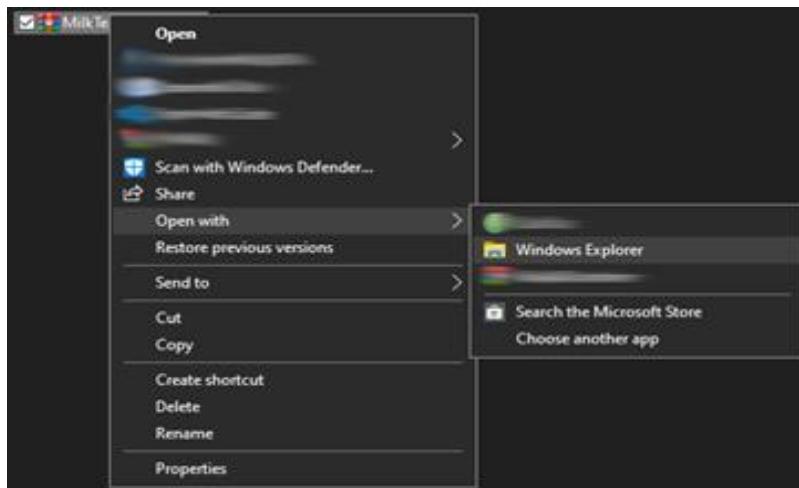


Figure 49: Unzip file

Then click Extract all.

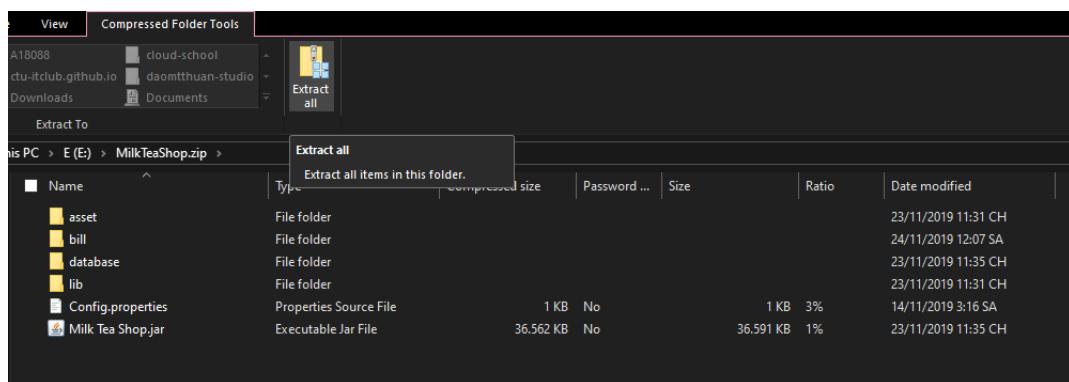


Figure 50: Extract file

Choose the path then click Extract to unzip

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Design Plan: Milk Tea Shop	Document name: Installation Guide	SWD/Form No. 13
Effective Date: 25-11-2019	Version: 1.0	Page 4 of 5

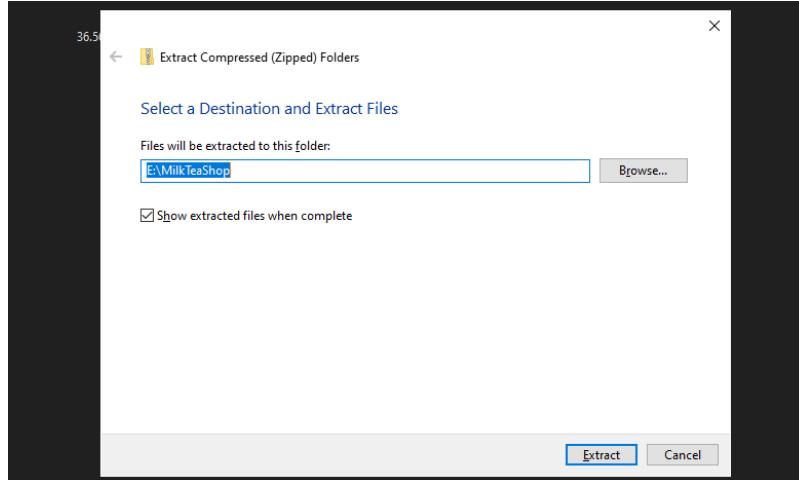


Figure 51: Choose unzip path

If this is your first times installation, please run file RUN.bat in database folder.

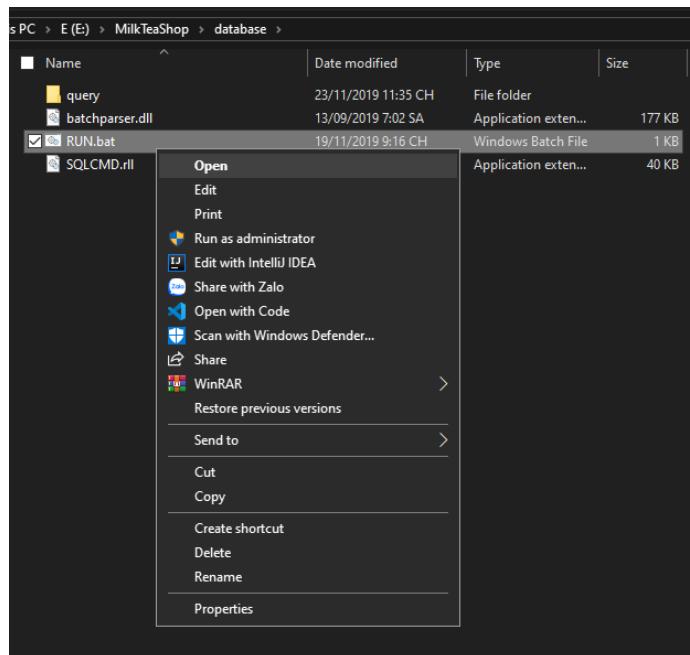


Figure 52: Run database

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Design Plan: Milk Tea Shop	Document name: Installation Guide	SWD/Form No. 13
Effective Date: 25-11-2019	Version: 1.0	Page 5 of 5

After database has created, run file Milk Tea Shop.jar to run application. If your computer doesn't know which application use for run this file .jar, please open with Java (TM) Platform SE binary (JVM).

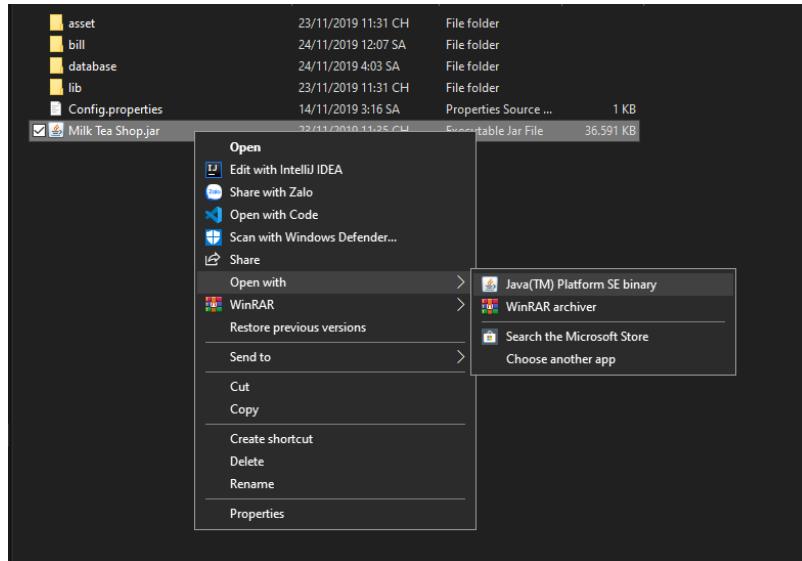


Figure 53: Run application

Application run successfully.

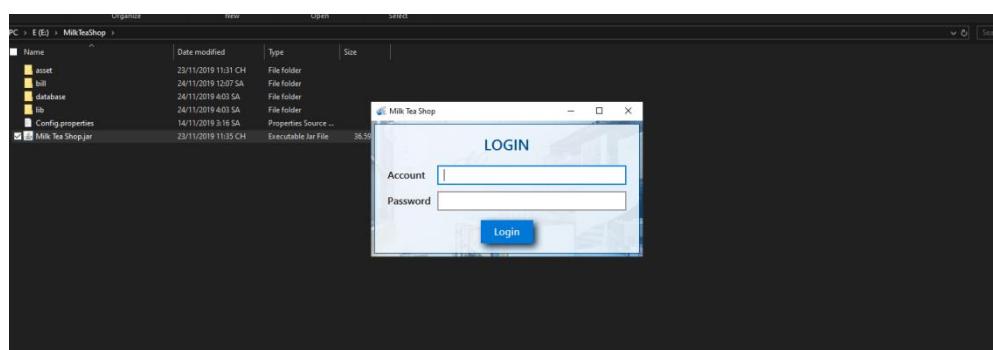


Figure 54: Application is running

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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 1 of 17

16 USER GUIDE

16.1 For manager

Run application, login form will appear. Using test account to login with account: “dmtt1” and password: “1”.

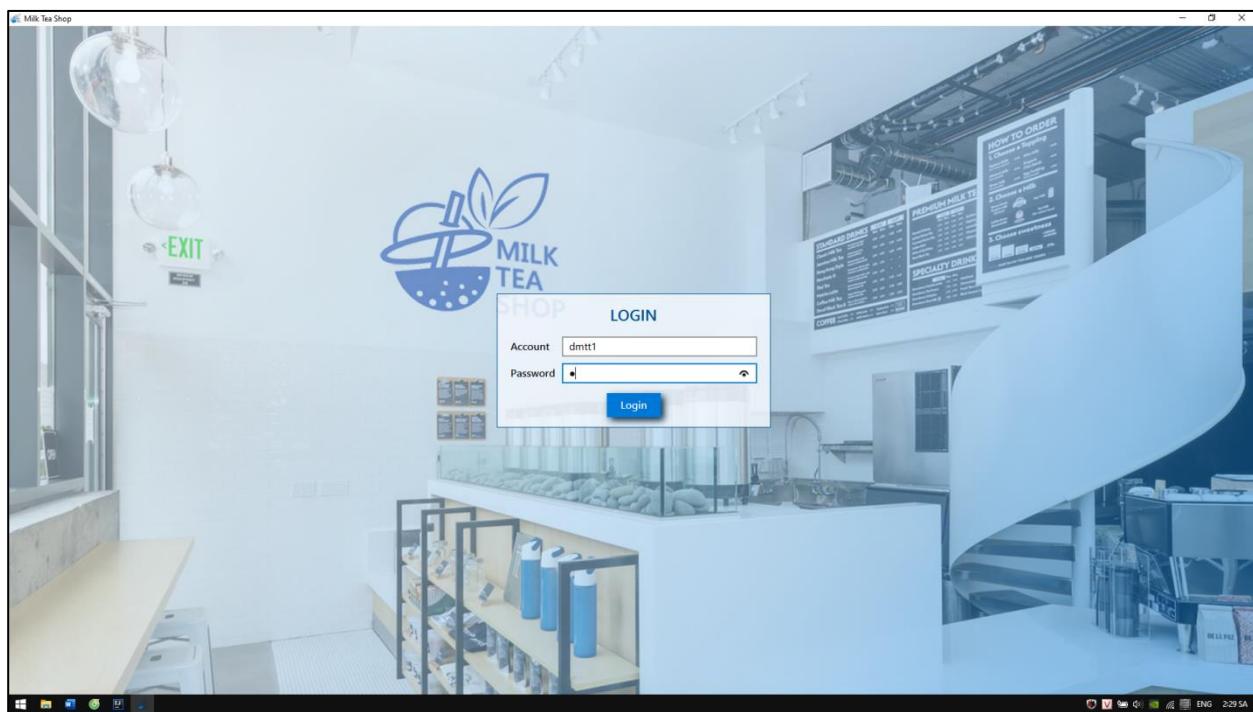


Figure 55: Login system

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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 2 of 17

Then main manager form will appear. Click on function buttons for managing shop with income management, shop management, menu management and account management. At income management, manager can follow income movement in this month and last month. Beside that, manager can see the top customer and top food.

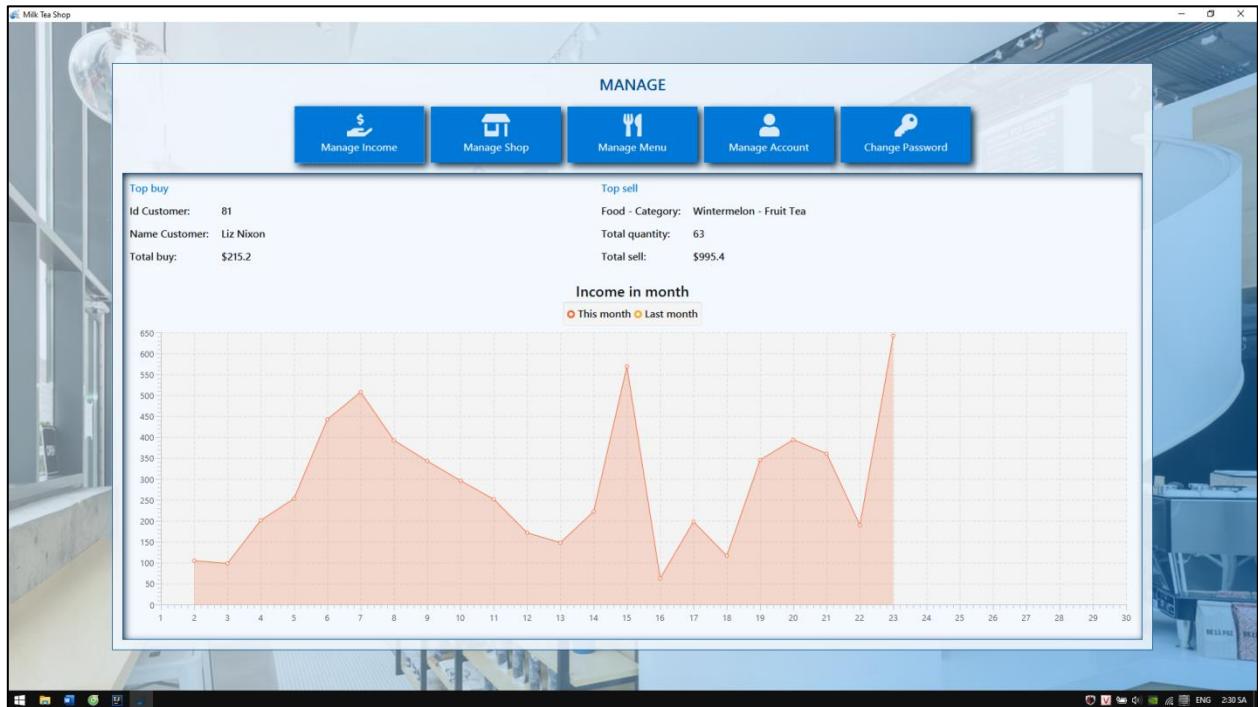


Figure 56: Main manager form

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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 3 of 17

At position table management form, manager can insert or delete table by right click on table button. Beside that, manager can move tables by drag and drop table button.

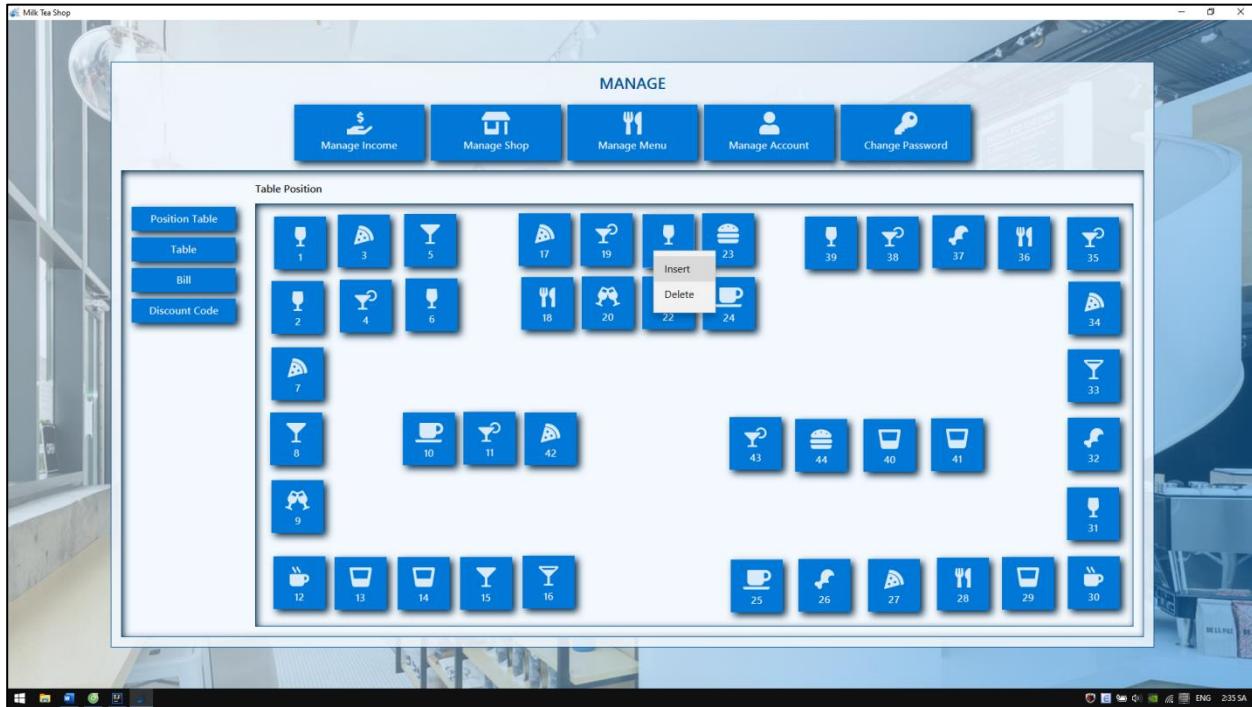


Figure 57 Position table management

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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 4 of 17

At table list management form, manager also can insert or delete table. Beside that, manager can change status of table. The table which has been disabled won't appear when customer choose table.

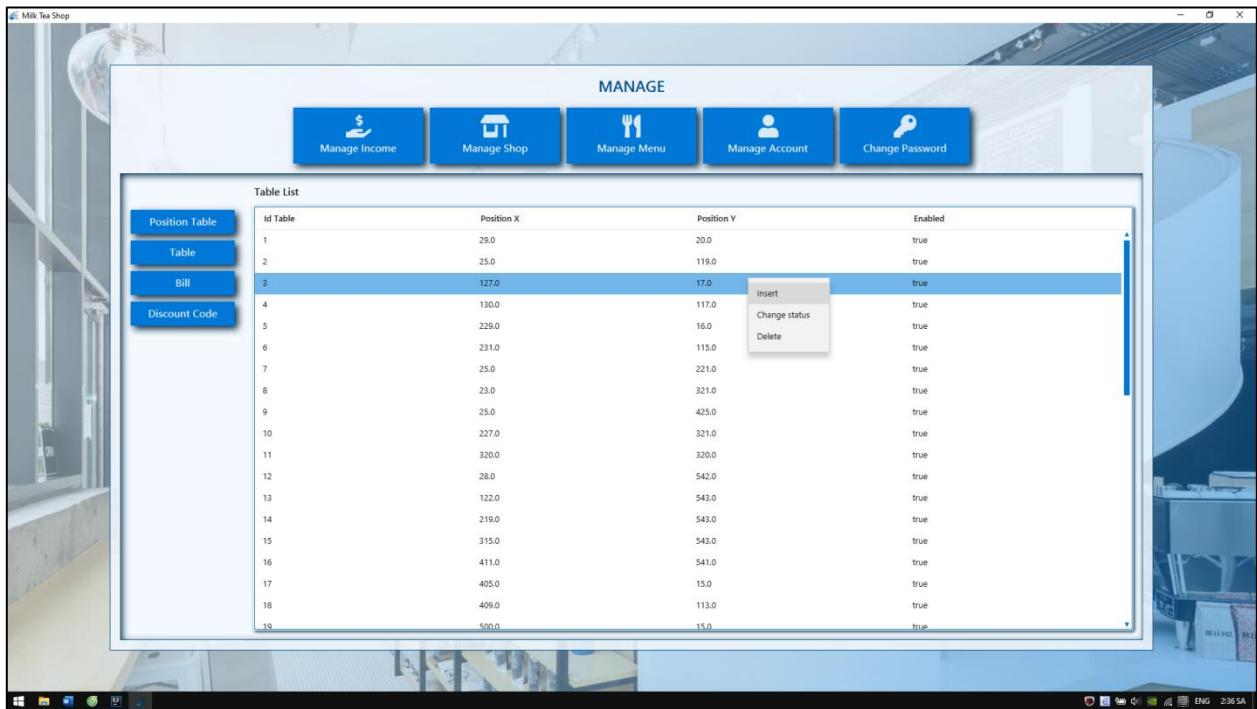


Figure 58: Table list management form

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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 5 of 17

At bill list management form, manager can see bill list by choose the table and select date-time of bill. Beside that, manager can watch bill details, customer who ordered that bill or employee who received payment by right click on that bill.

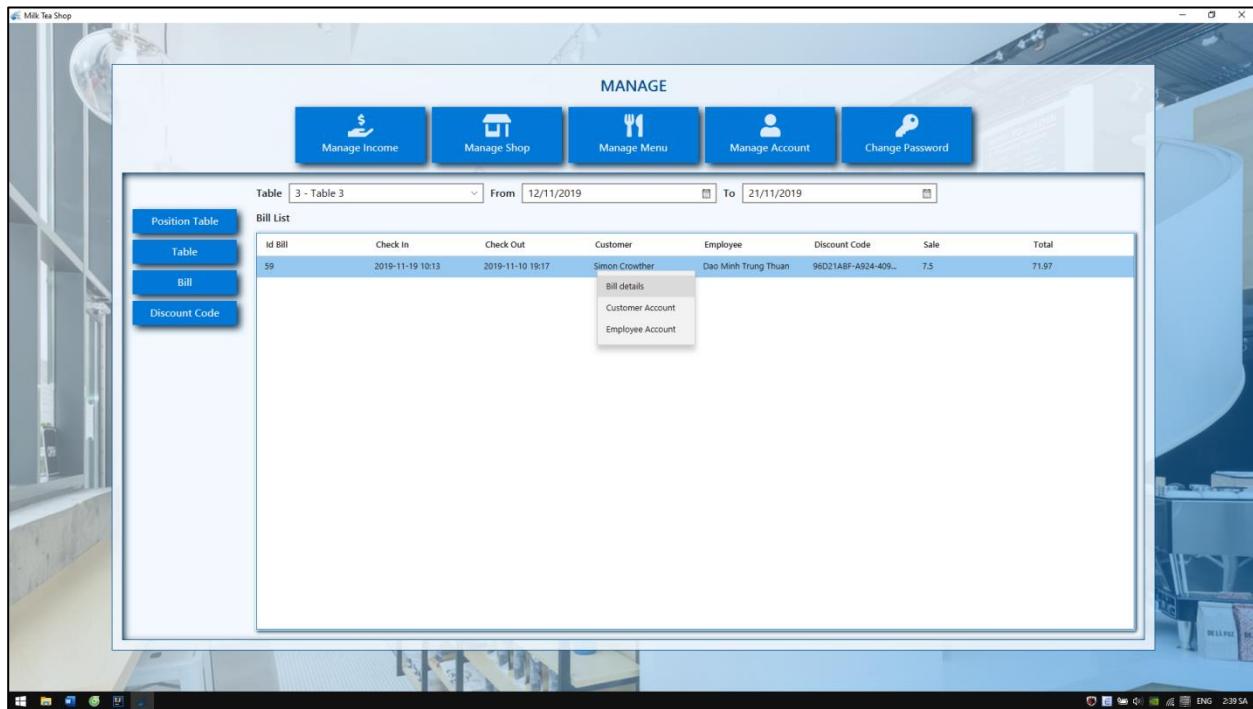


Figure 59: Bill list management form

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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 6 of 17

At discount code management form, manager can insert, delete, change status code. The code which is given out will print in bill of customer.

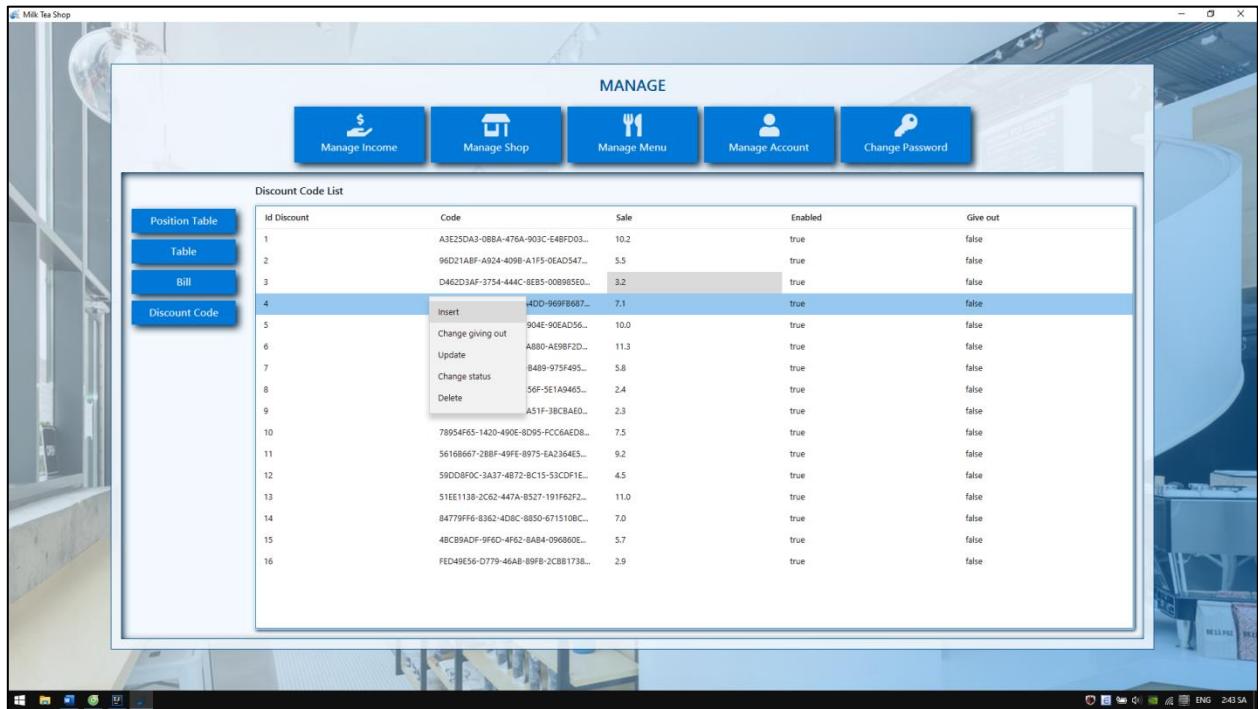


Figure 60: Discount code management form

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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 7 of 17

At form menu management form, manager can insert, delete, update or change image food and category by right click on button.

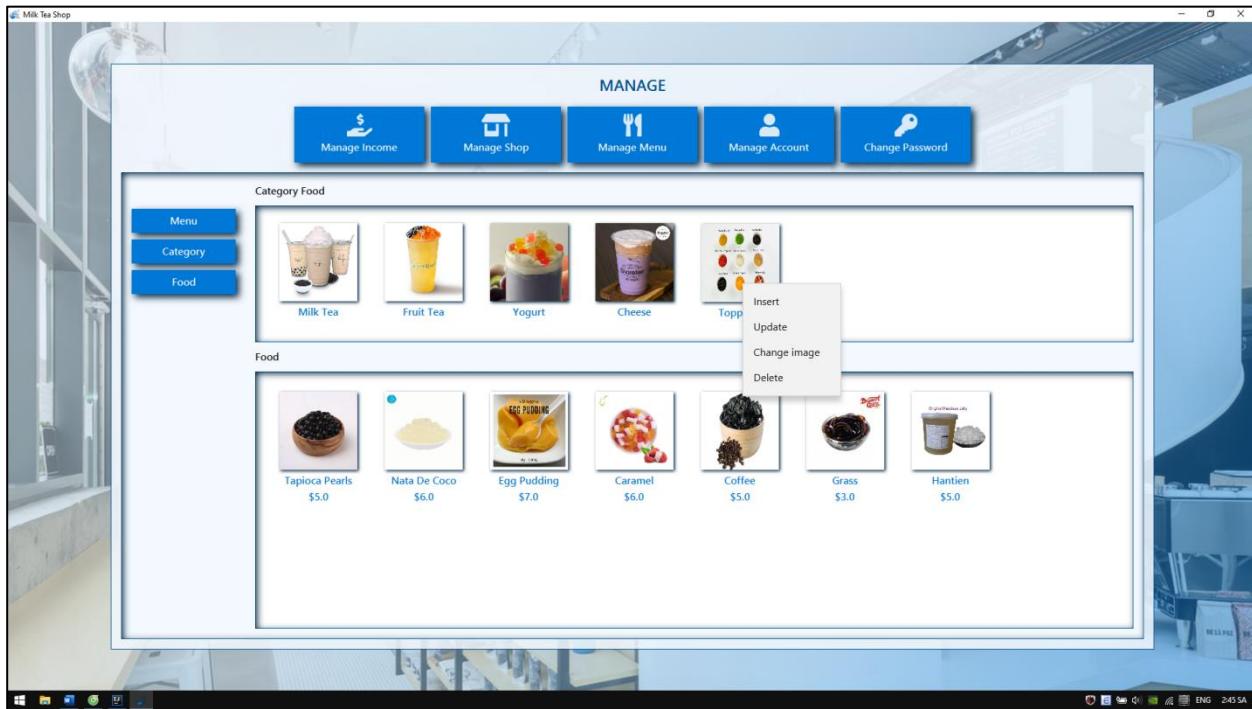


Figure 61: Menu management form

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 8 of 17

Manager can watch category by list and right click on rows to insert, update, delete or change status.

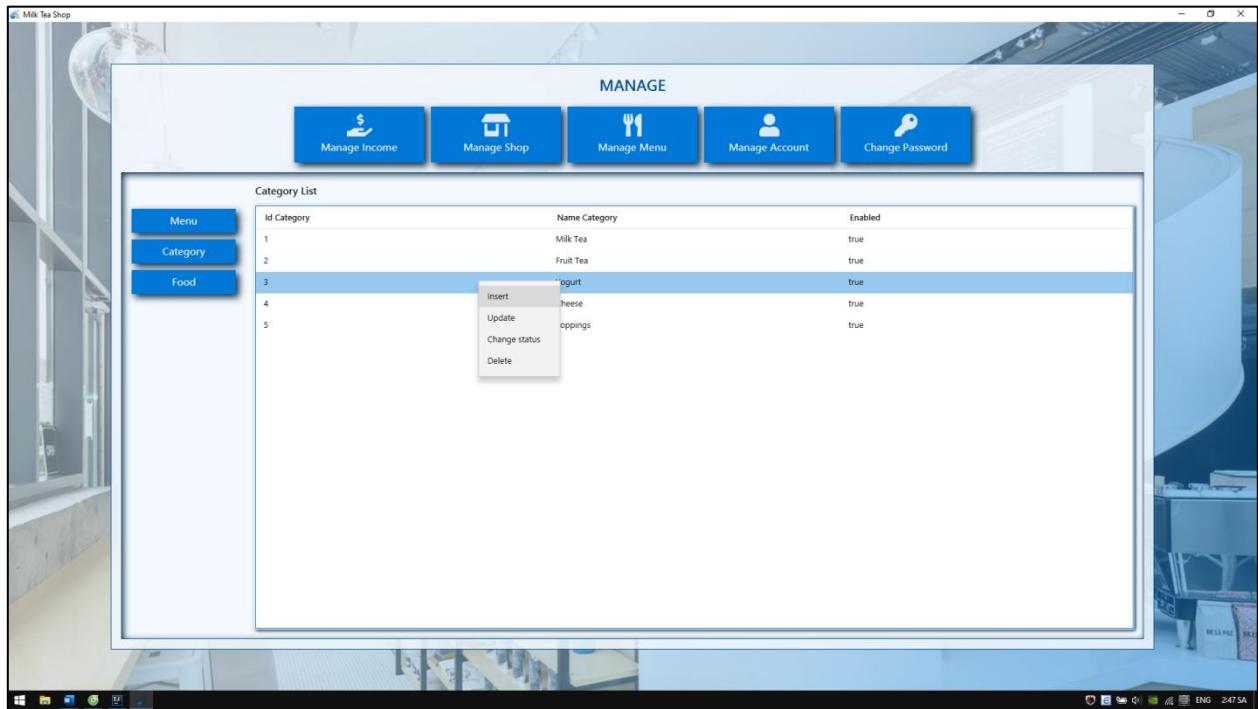


Figure 62: Category list management form

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 9 of 17

Manager can watch food by list when choose category in combo box and right click on rows to insert, update, delete or change status.

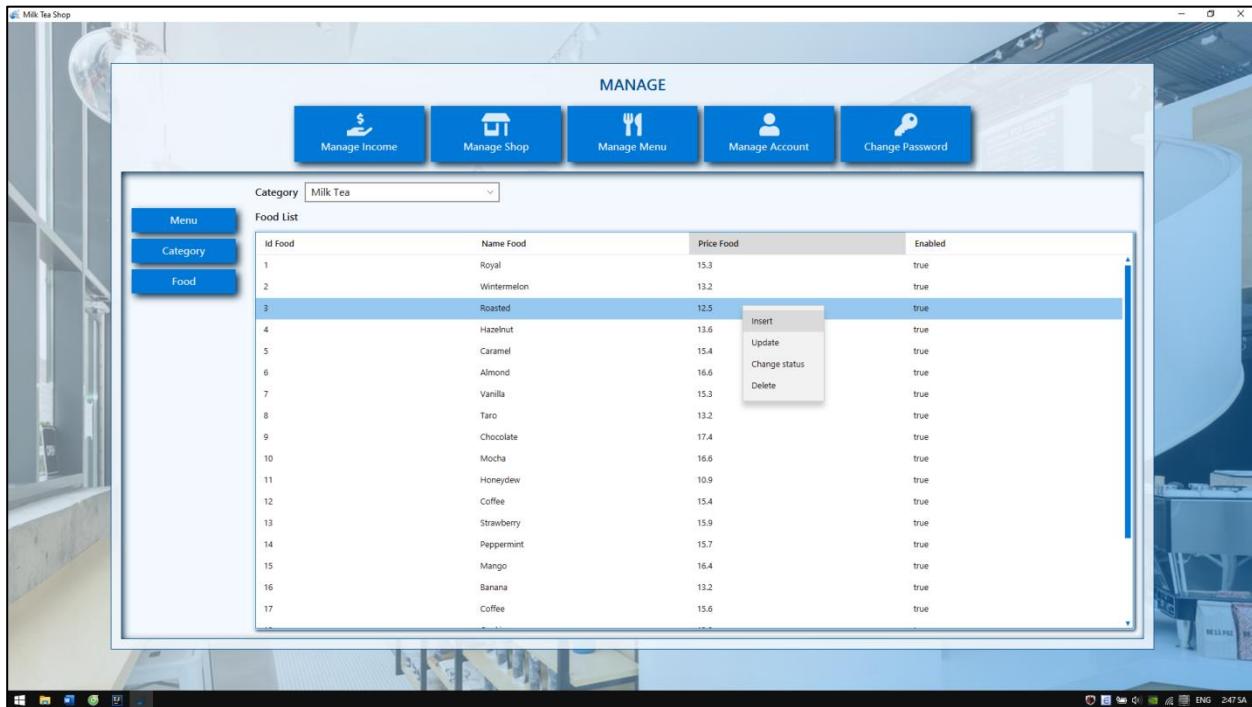


Figure 63: Food list category management form

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 10 of 17

At account management form, manager can insert, update, change status or delete account of customer, employee and manager.

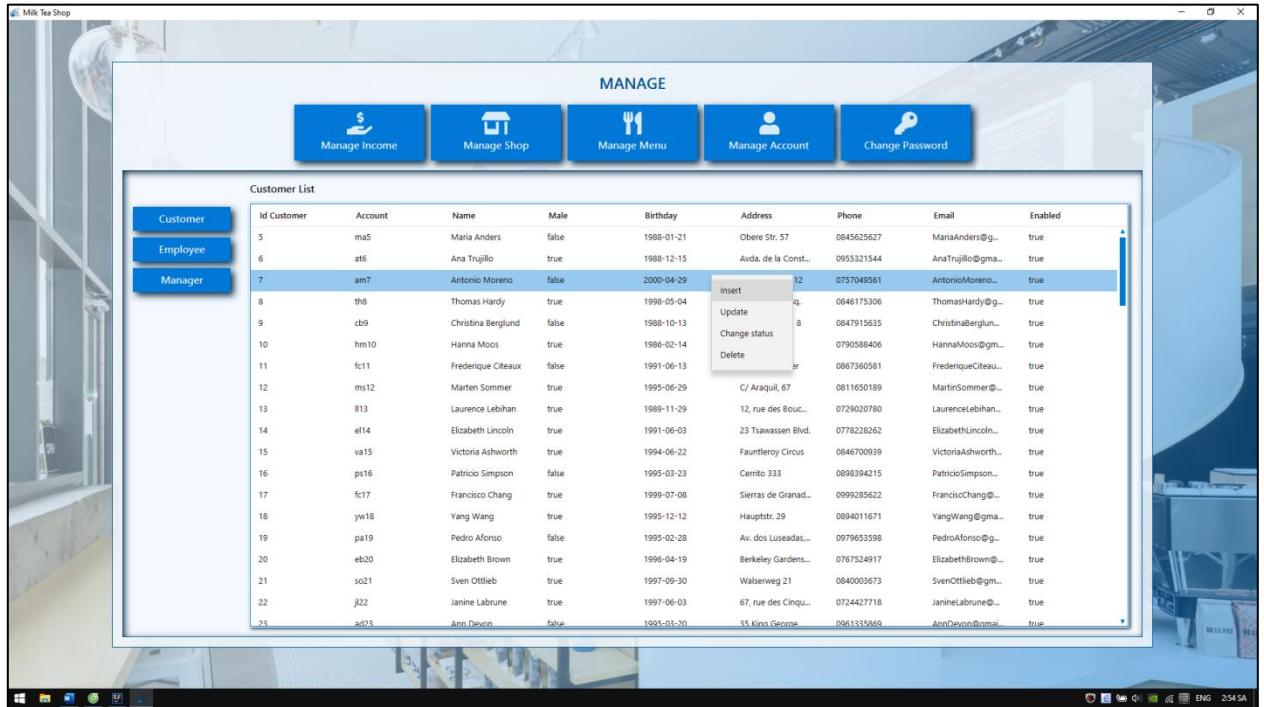


Figure 64: Account management form

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 11 of 17

Beside that, manager can change password by click on change password button

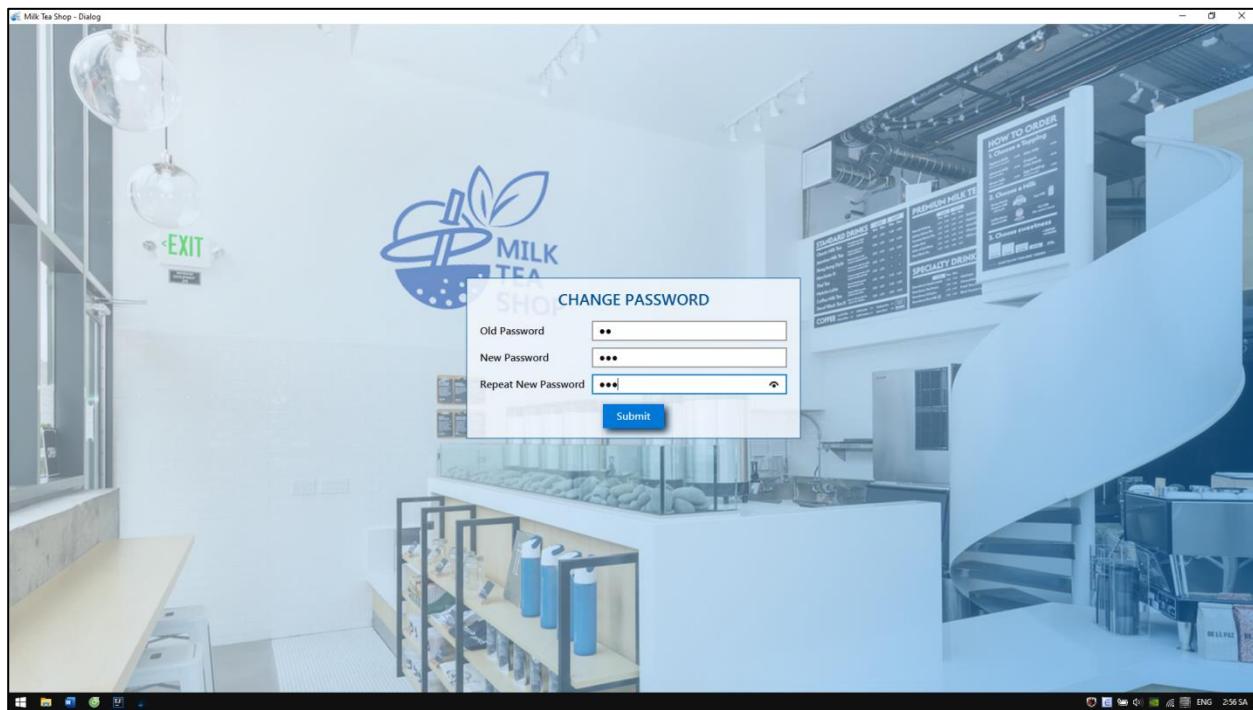


Figure 65: Change password form

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 12 of 17

When customer is ordering, employee can watch ordered bill. Employee can cancel this order by close manage order form. When customer finished ordering and give money to employee, employee click on pay bill button to finish.

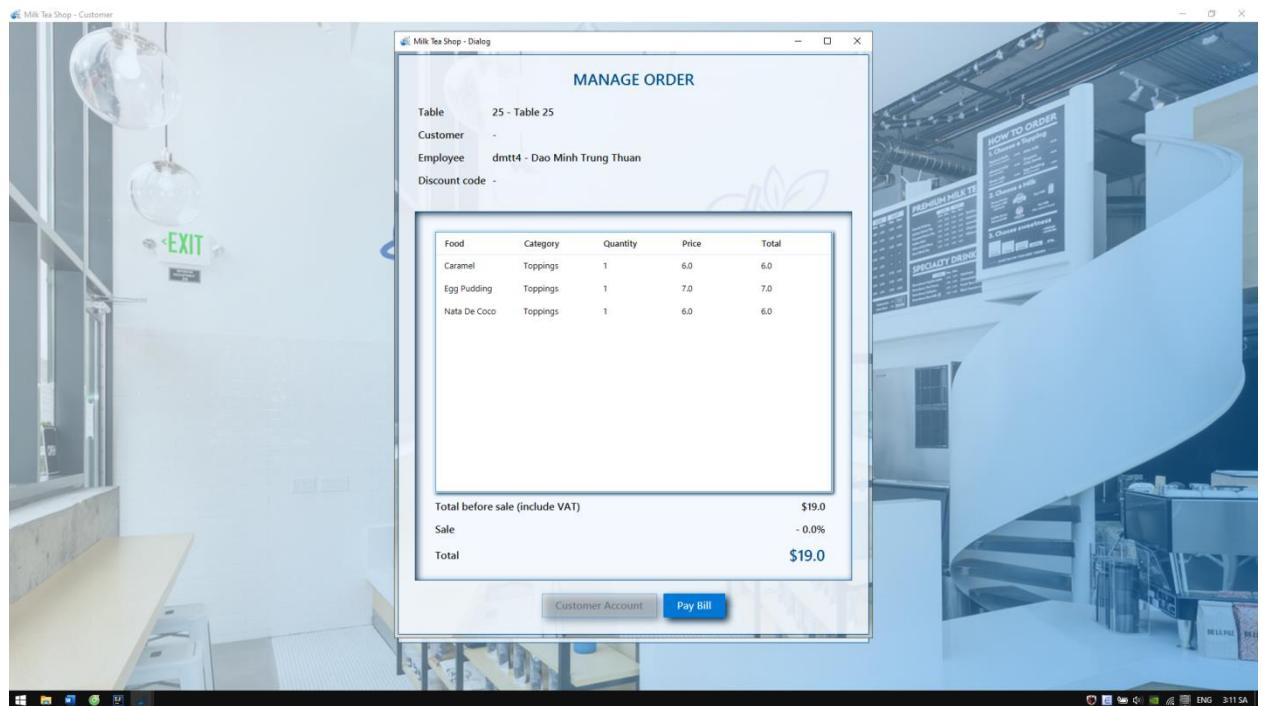


Figure 66: Manage order form

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 13 of 17

16.2 For employee

Using test account to login system with account: “dmtt4” and password “1”. The main form for employee. Employee has same function as manager but employee cannot insert, update or delete anything, employee only can watch. Beside that, employee can change password own account. After login, please drag and drop welcome customer form to the secondary display screen and click on Open shop button to set up system for customer.

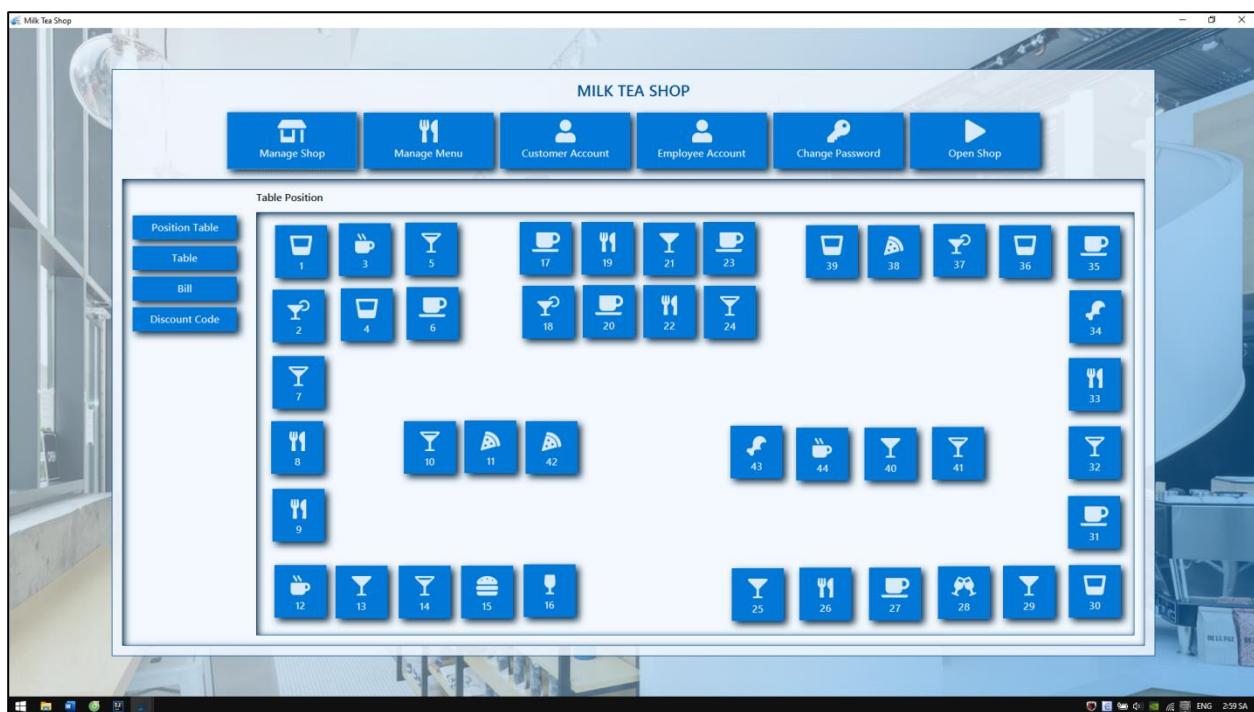


Figure 67 Main form for employee

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 14 of 17

When employee login system, welcome customer form appears.

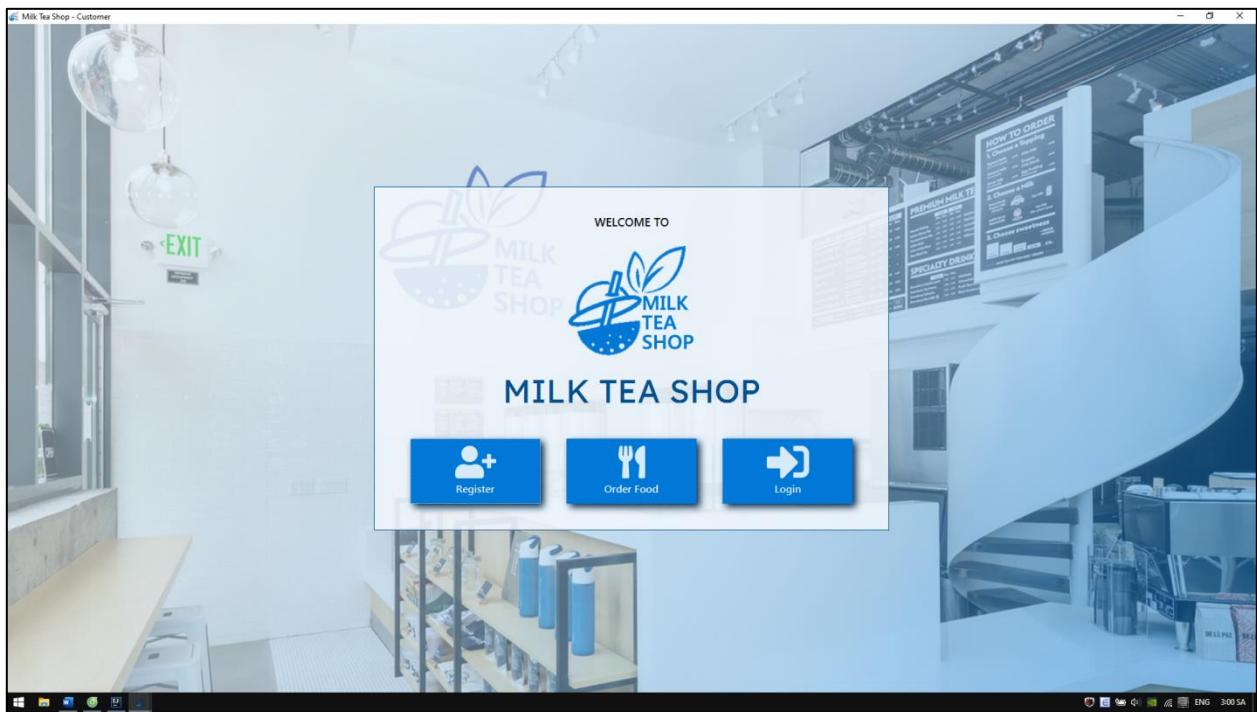


Figure 68: Welcome customer form

Date:	Prepared by (Student)	Approved by (Teacher)
25-11-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 15 of 17

16.3 For customer

Customer can register account or login by customer account at welcome form. After that, system will bring to Order food form. At that form, customer can choose category and food to order. Beside that, customer can enter discount code, change password own account or watch information account.

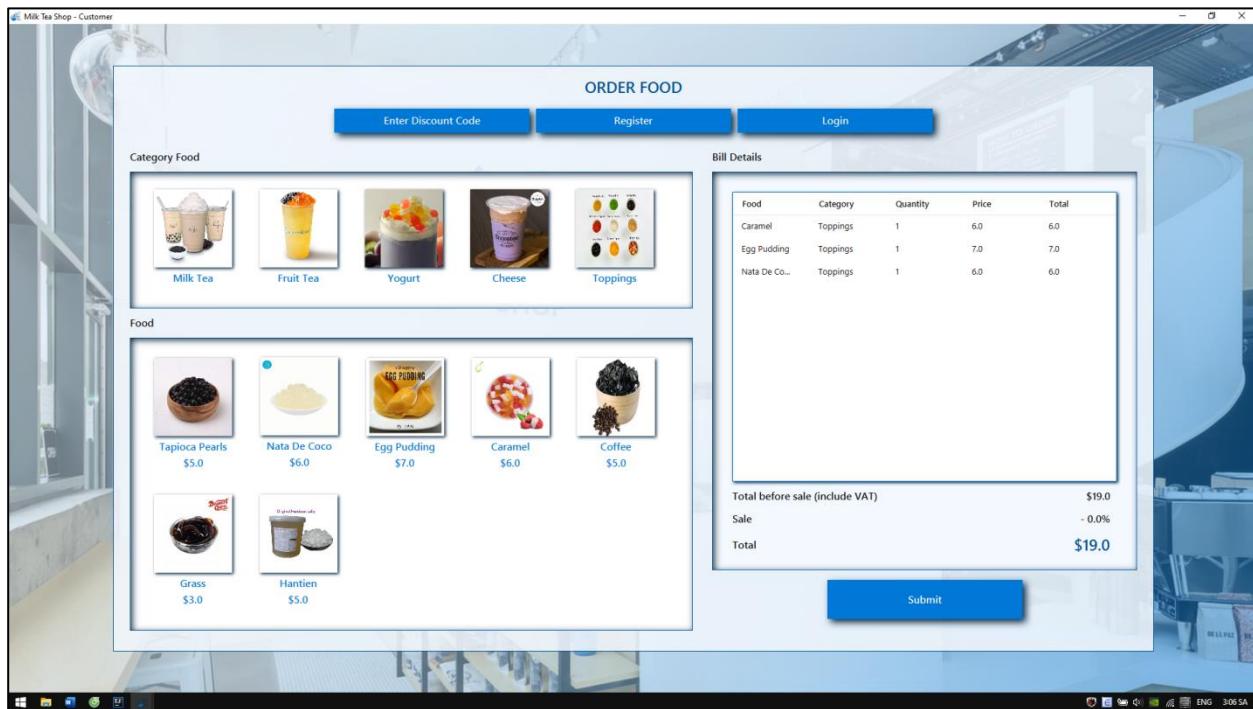


Figure 69: Order food form

Date:	Prepared by (Student)	Approved by (Teacher)
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Design Plan: Milk Tea Shop	Document name: User Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 16 of 17

When finishing ordering food, customer click on submit button to go to choose table form.

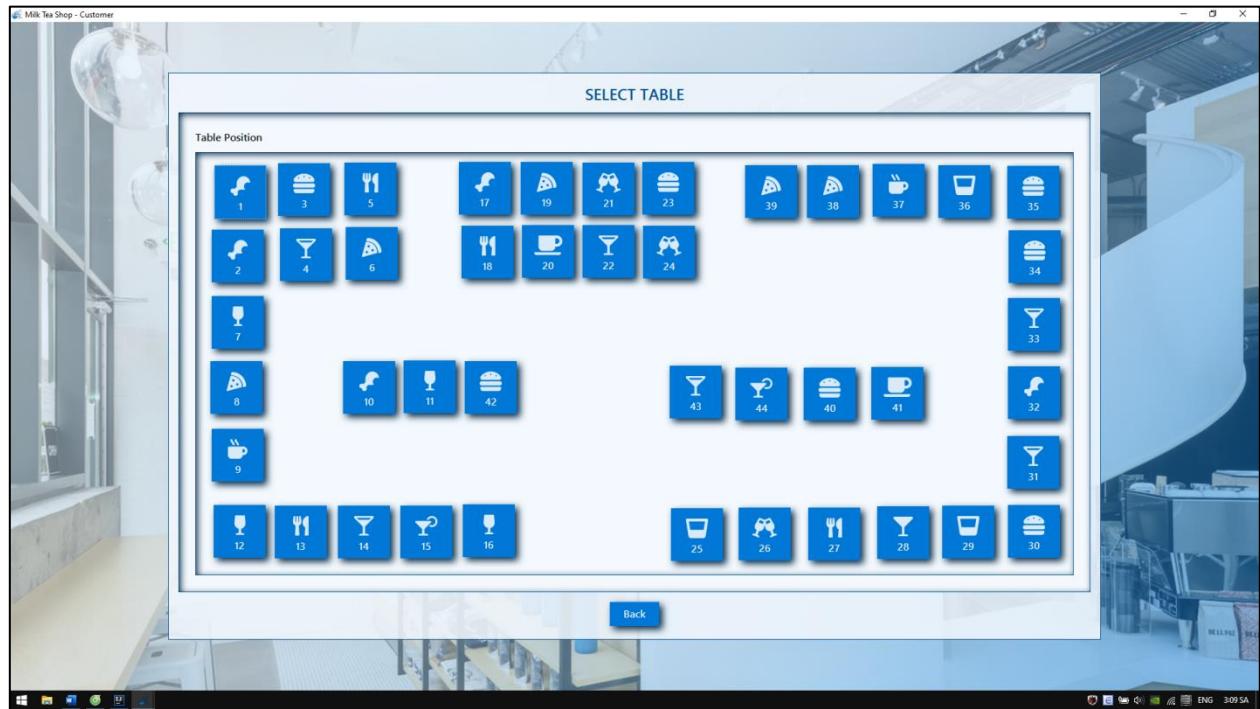


Figure 70: Choose table form

Date:	Prepared by (Student)	Approved by (Teacher)
25-11-2019	Dao Minh Trung Thuan	Luong The Anh

Design Plan: Milk Tea Shop	Document name: Installation Guide	SWD/Form No. 14
Effective Date: 25-11-2019	Version: 1.0	Page 17 of 17

Customer choose table to pay bill then give money to employee for paying bill.

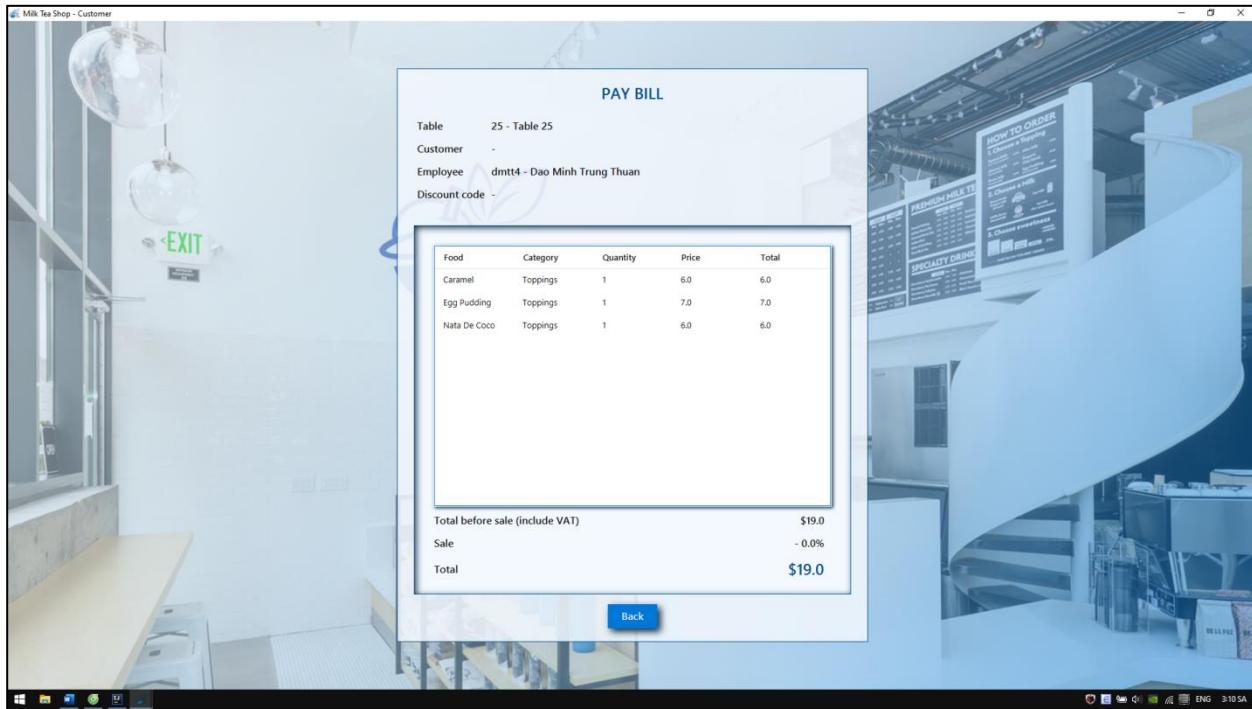


Figure 71: Pay bill form

Date:	Prepared by (Student)	Approved by (Teacher)
25-11-2019	Dao Minh Trung Thuan	Luong The Anh