



GET FRESH FOOD

OOAD SA41

By

Team 10

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1.0 Background information of current System

Get Fresh Food is a supermarket store operating with a large variety of products. The operation of the store has been traditional which requires the employees to take count of stock, order goods and label prices manually. The supermarket is facing lot of problems due to manual errors and human carelessness.

The supermarket follows a hierarchical method of performing tasks with efficient staff working in two shifts.

1.1 Current Business System

The **Owner** of the supermarket gives instructions for setting product price, update function. Even he can access any report.

The **Branch Manager** handles many operation of the store i.e. sets the price for each product, classifies the products on the basis of sale and writes special report in case of lost or damaged goods.

The **Promoter** maintains the goods on display, removes damaged or expired goods from the shelf and replenish with fresh ones. Promoter is required to label each product with a price tag and the shelf..

The **Store man** prepares goods order list, maintains a set of inventory record for all the goods, returns damaged or expired goods to the supplier and updates the inventory by End-Of-Day.

The **Cashier** checks products selected by customers, enters price of the products into cash register, collects two receipts of list of items bought by the customer and the total amount payable generated by the cash register, collects money from the customer and keeps the receipts. At the end of their shift, cashier is required to tally the money, collate all the items sold and pass on the End-Of-Day sales record to store men and branch manager.

1.2 Problems in the Current Business System

All the work done by the staff and owner is manual , i.e entry of damages/expired items, making end-of-day sale report ,entry in cash register for sold item etc.

There are many places where human errors are detected like error in price labelling, Monthly inventory check etc.

There is no Centralization of system for the staff. Because of this the store men might consider that any discrepancy could be due to mistake made by the cashiers when they record sales or by the promoters when they withdraw goods from the store

1.3 Solution for current problem

Providing a Centralized system: which will be accessed by the store as well as supermarket staff, which will reduce the occurrence of discrepancies in sales & inventory record and variation.

A lot of work done by staff should be automatically. There will be less chances of Human Errors and work load.

2.0 Overview of System Scope and out of scope

2.1.1 Proposed System

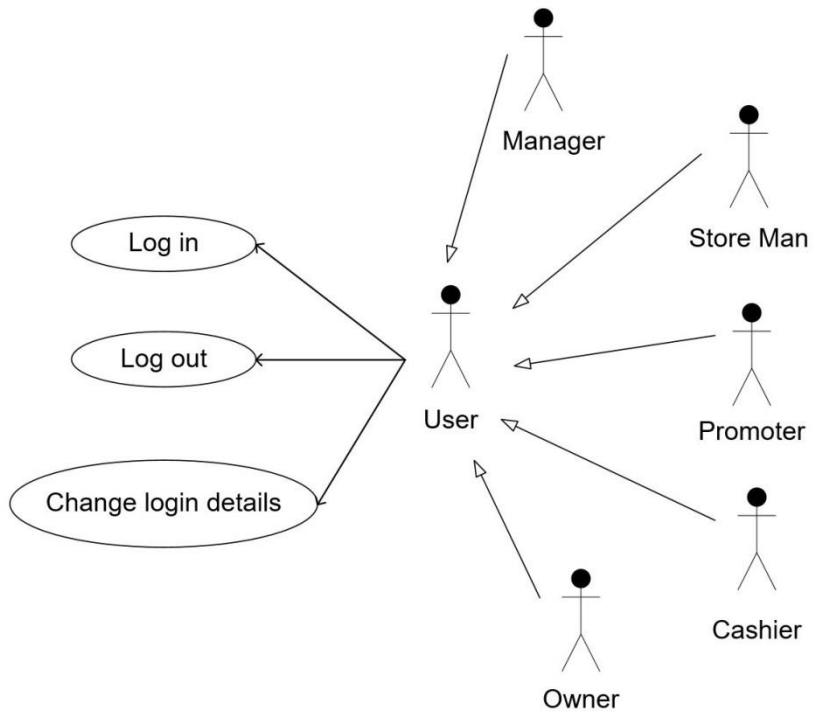
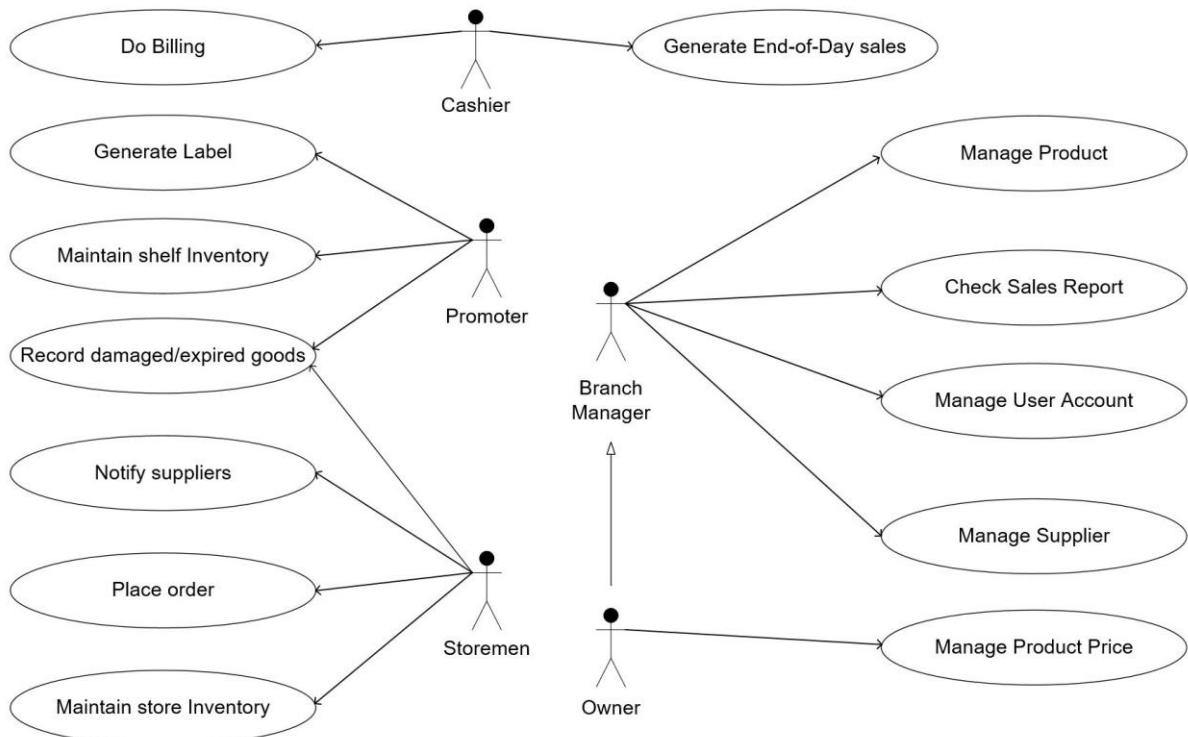
The new proposed system will deal with Authorisation and authentication of users. User can access data from centralized database ,but usage of every user has been limited by authorization.

- **Promoter's part automation:** Checking goods running out on display (ex.start of the shift-end of shift-expired items during that shift) checking expired item, Generate price tag.
- **Cashier's part automation:** Billing, receipt for customer, Generation of End of the day report.
- **Storeman's part automation:** Update inventory, placing order with supplier,update expired and damaged item,maintain inventory in store.
- **Owner's part automation:** setting out prices of products
- **Branch Manager's part automation:** issue product form reflecting with new price and new item,classification of goods (fast,medium,slow moving out),
- **Customer's part automation:** Pay by Card(optional)
- While building this system we kept future growth of business in mind.As a lot of manual work has been automated,so same number of staff can handle work load because of business growth.There will be less need of hiring human power.

2.1.1 Out of Scope

- Assigning shelves of a set of product to the Promoter, Arranging Shift staff, recruitment of staff.
- Removal of damaged/expired Items from the store for replenishment will be done by the Promoters manually. When goods are running low, collection of goods from store and displaying it in the shelves is also handled by promoter. Assigning shelves of a set of product to the Promoter, Arranging Shift staff, recruitment of staff.

3.0 System use case diagram



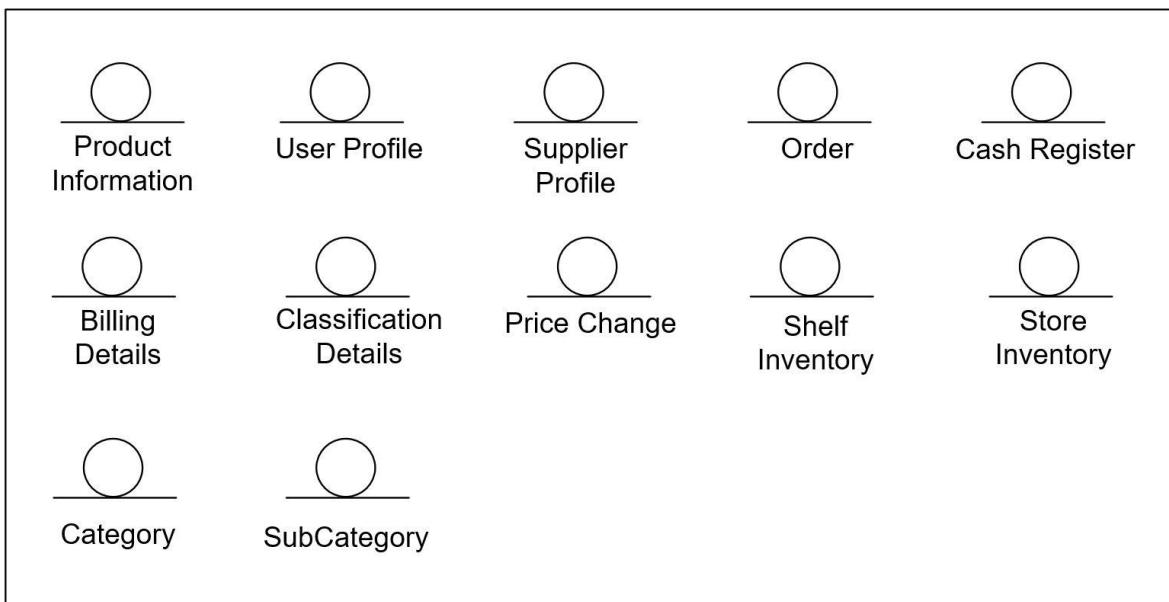
* Owner can do all the operations done by branch manager. Additionally he will change the price of the products, when necessary.

4.0 Functional Requirement

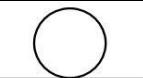
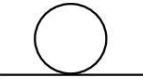
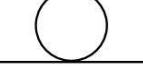
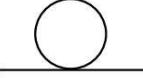
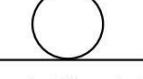
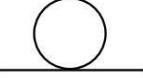
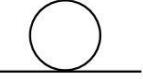
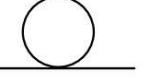
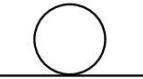
4.1 Actor List & description

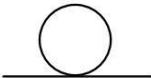
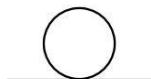
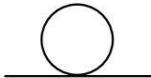
Owner	He is the sole proprietor of the shop. He will hire branch manager and all his supporting staff. Reviews the business progress using Loss of sales report, daily sales etc., to determine business policies and take necessary actions.
Branch Manager	Branch manager is in charge of overall smooth running of the business. He is hired by owner and is a full time worker. He is reporting to owner and authorized to check the sales amount at the end of each shift.
Store men	Store men appointed by branch manager. There are 2 store men who are responsible for the overall maintenance of store levels of the shop inventory.
Promoter	Branch manager appoints promoters. He is a full time worker, working in shifts. Each promoter will look into set of products & its designated locations.
Cashier	Cashiers are appointed by branch manager, who work in shifts. Their main duty is to maintain cash register and end-of-day sales book. These two books are very important to hold the profit/loss of the business & draw business strategies accordingly.

4.1.0 Domain Model



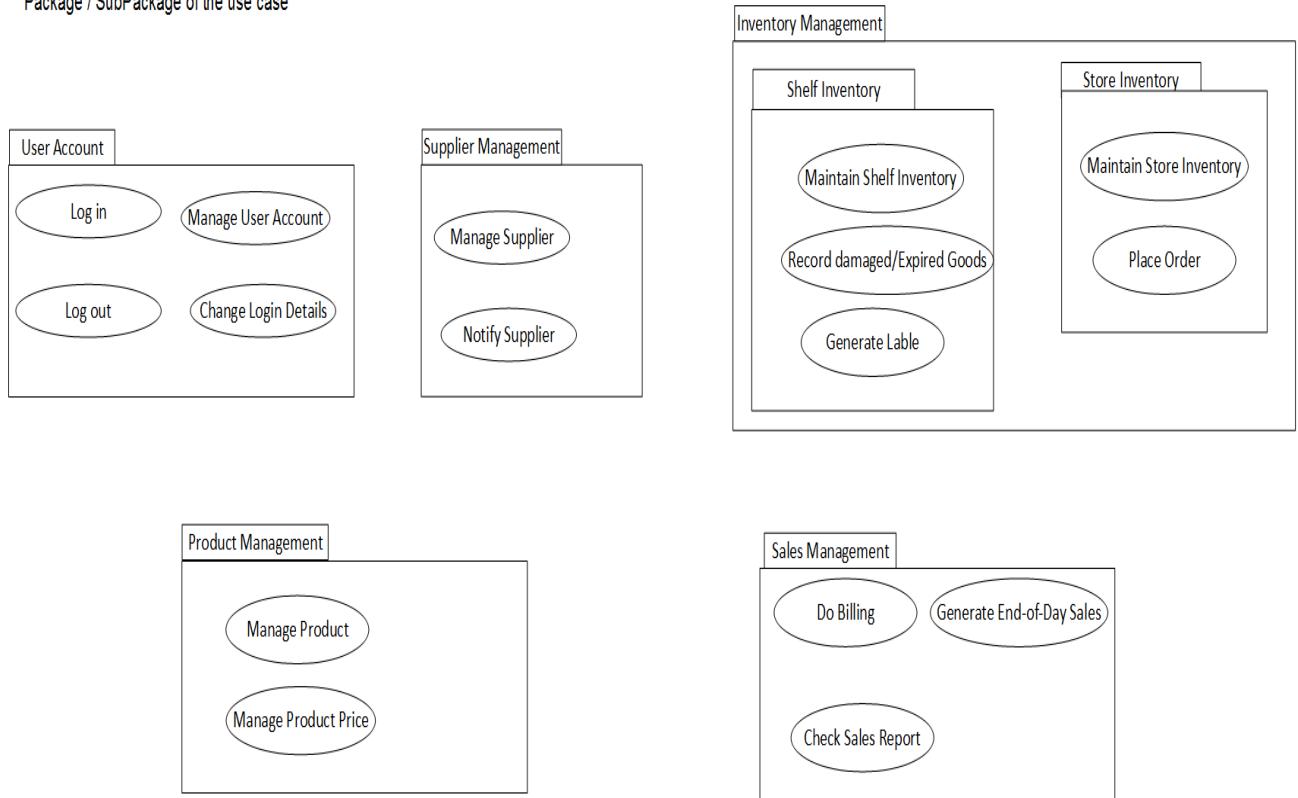
4.1.1 System Entity

System entity	Description
 Product Information	This entity includes product information of product ID, product name, pricing, classification, supplier, category Id, Sub category Id.
 User Profile	This entity includes every registered staff of the supermarket and the necessary information, e.g. the name, staff ID, address and phone number, password, department.
 Supplier Profile	This entity includes all the suppliers of the supermarket and the necessary information, e.g. the name, supplier ID, address and phone number, contact person.
 Order	This entity includes the information of the products placed by the store men to the suppliers and status of the orders (e.g. Pending or confirmed).
 Cash Register	This entity includes the End-of-Day sales data (e.g. quantity of products sold per day) and the opening balance.
 Billing Details	This entity includes the data of the orders placed by the customers.
 Classification Details	Every different classification range (Fast, moderate and slow).
 Price Change	Record of the price each time changed by the owner as a reference to the market strategy.
 Shelf Inventory	The information of the product taken by the promoters and also includes the information of the Expired and Damaged products on the shelf.

 Store Inventory	The information of the product placed by the store man and also includes the information of the Expired and Damaged products in the storage.
 Category	This includes all the category of the products in the supermarket and each category has an ID.
 SubCategory	This includes all the subcategory of the products in the supermarket and each subcategory has an ID and under each category there are names of the products for quick search.

4.2 Packages and Sub-packages

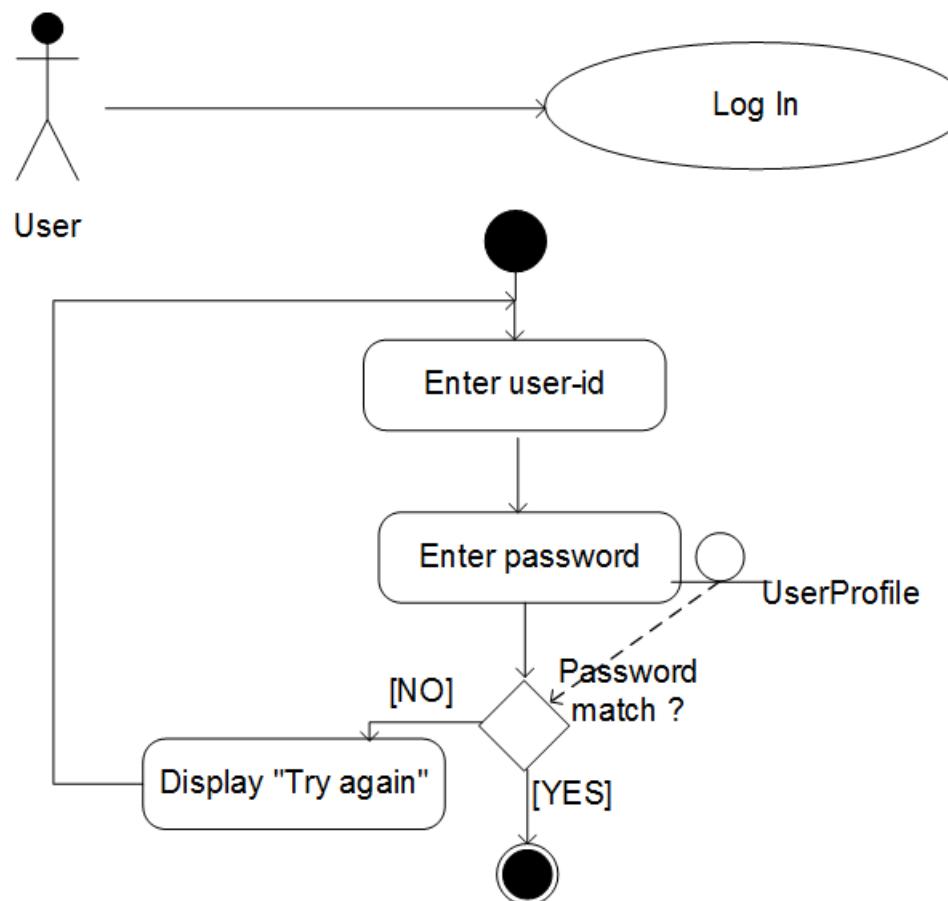
Package / SubPackage of the use case



4.3 Activity Diagram

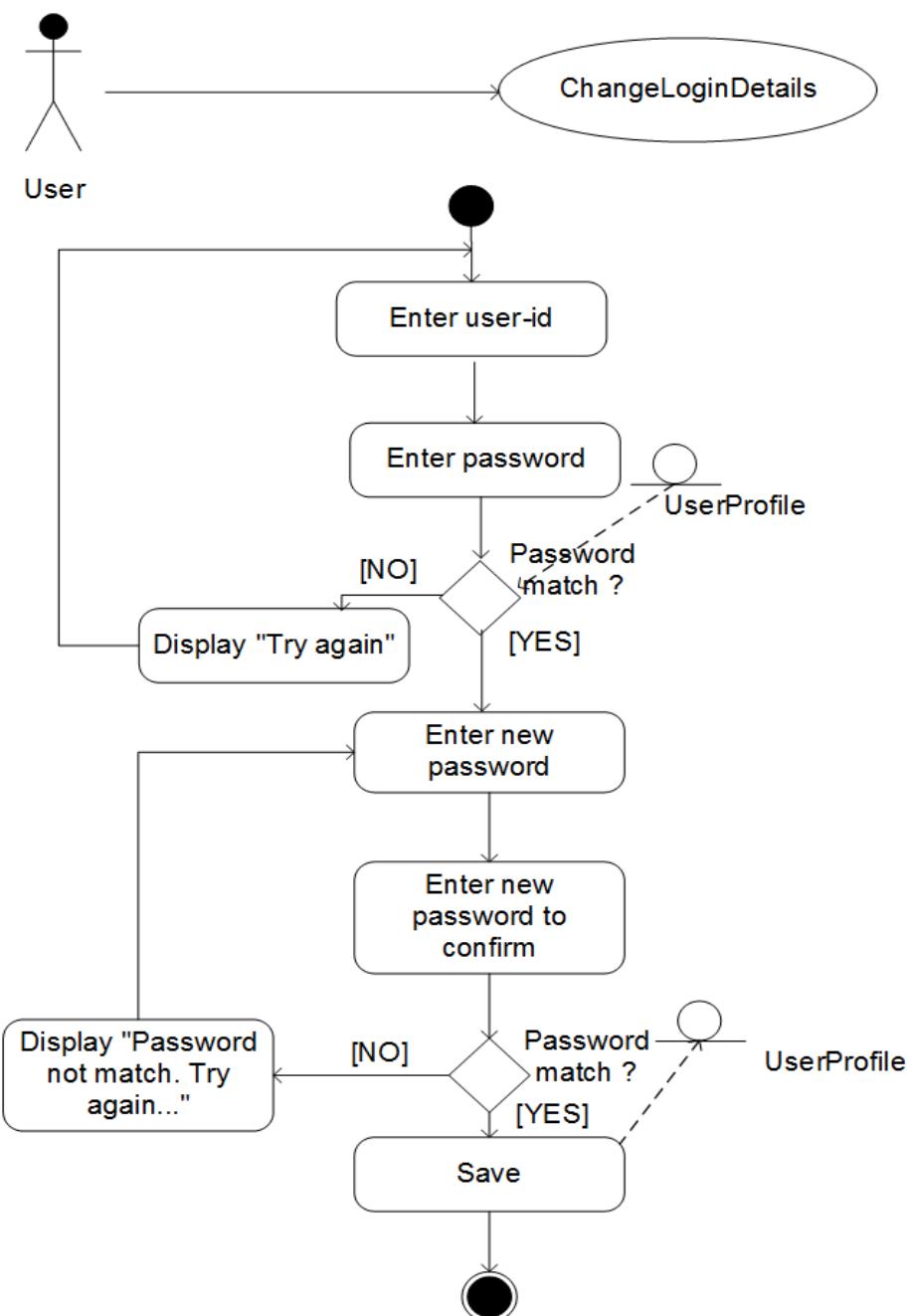
4.3.1 Log-In

Use case	Log In
Actor	All users of GetFreshFood.
Purpose	To login GetFreshFood system, to perform their responsibilities.
Pre-condition	User will trigger this use case when he wants to login into GetFreshFood system
Post-condition	User are given access rights to the system, according to their roles in the supermarket.



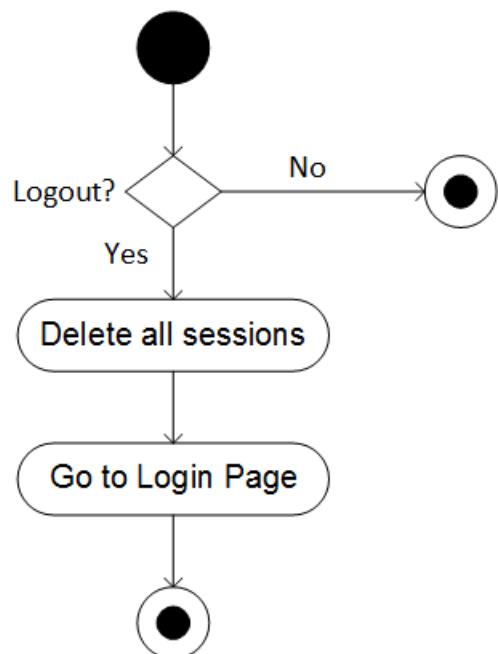
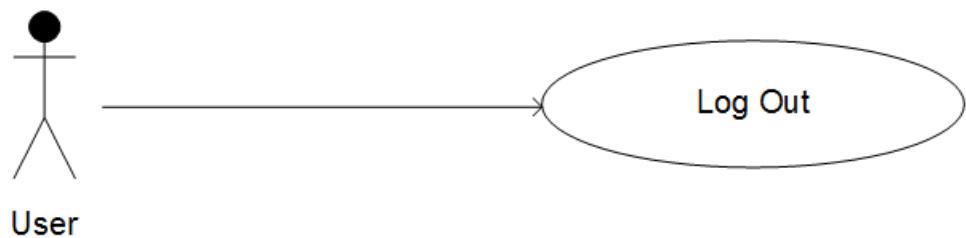
4.3.1 Change Login Details

Use case	ChangeLoginDetails
Actor	All users of GetFreshFood.
Purpose	To change the password for their log-in into GetFreshFood system.
Pre-condition	: User will trigger this use case when he wants to change his password to enter into GetFreshFood system. Branch Manager has created a default password, if he is a new user.
Post-condition	Changed password is updated in userprofile table.



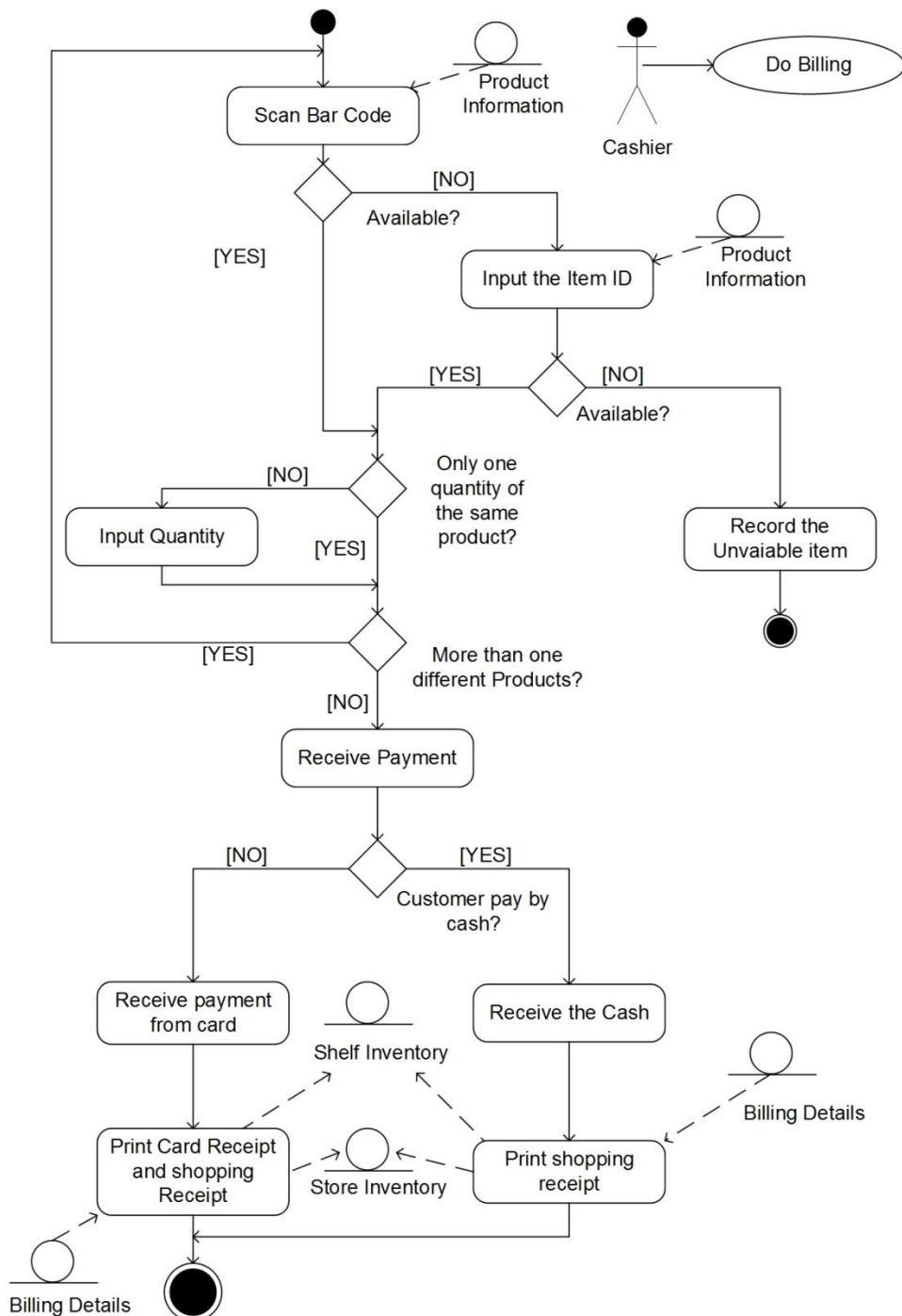
4.3.2 Log-out

Use case	Log Out
Actor	All users of GetFreshFood.
Purpose	To logout GetFreshFood systems.
Pre-condition	User will trigger this use case when he wants to logouot from GetFreshFood system or to login as a different user
Post-condition	Temporary sessions are deleted.



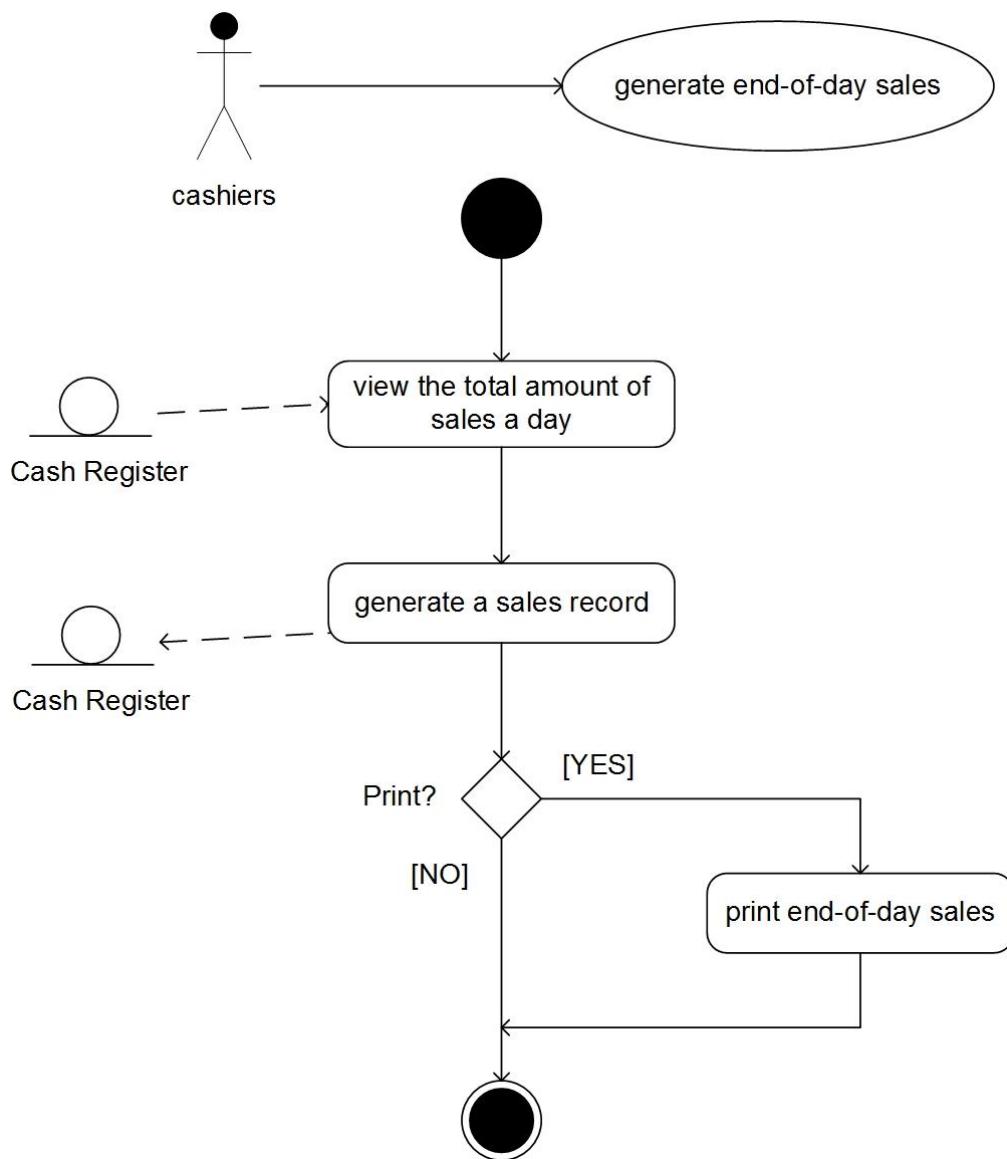
4.3.3 Do Billing

Use case	Do billing
Actor	cashier
Purpose	To create a new sales record
Pre-condition	Customers arrive at cashier counter with goods to check out. And also the item ID has already existed in the system database.
Post-condition	A new sales ID will be stored into the “Cash Register” system entity.



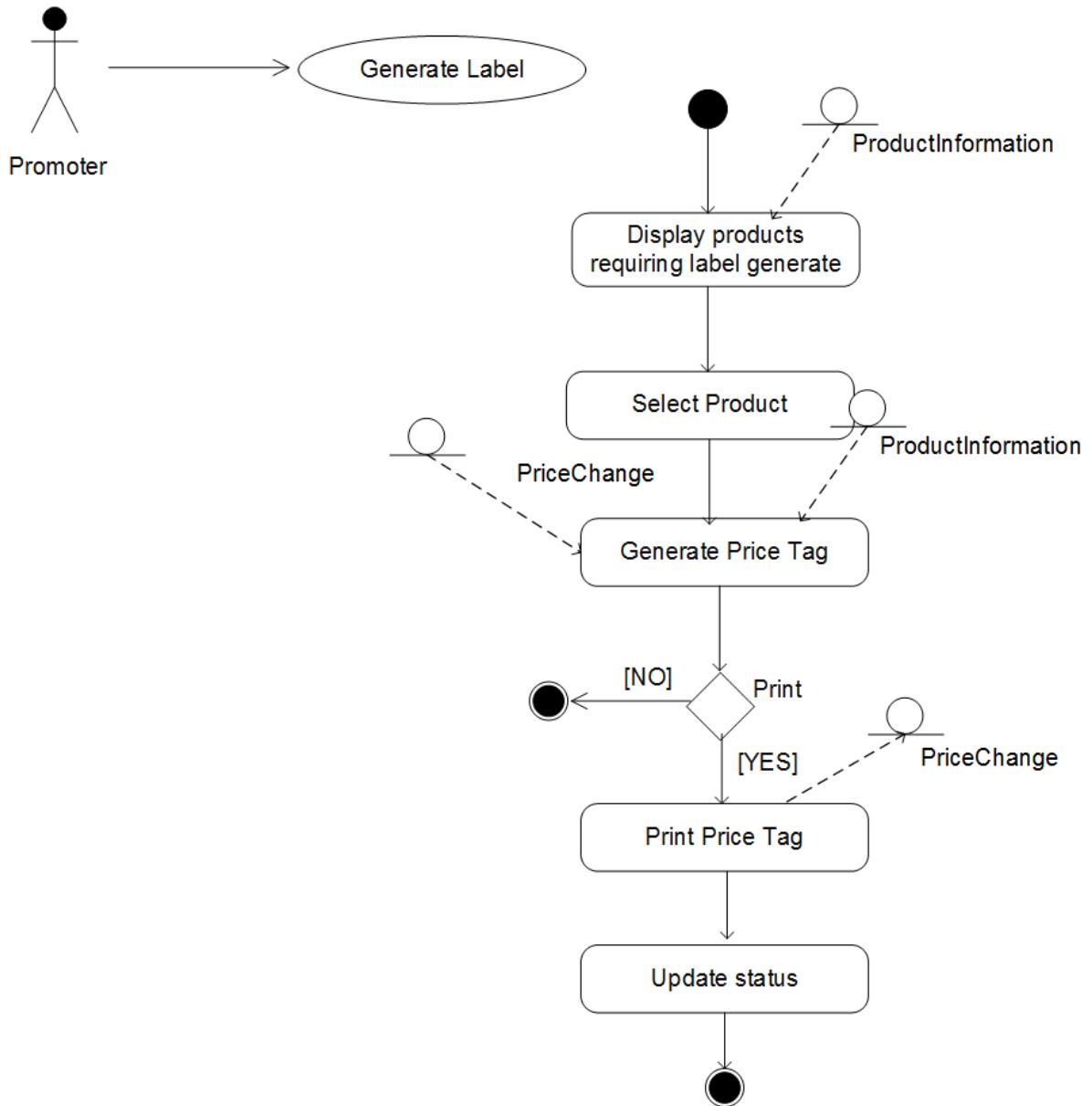
4.3.4 Generate end-of-day sales

Use case	Generate end-of-day sales
Actor	cashier
Purpose	To check whether the physical money and the system money is matched and send an email to inform the condition to owner.
Pre-condition	User will trigger this use case when he got the sales record from cashier.
Post-condition	The result of whether the physical money tally with the system money will be shown, and if the result is no, an email will be sent to owner to inform him the lost.



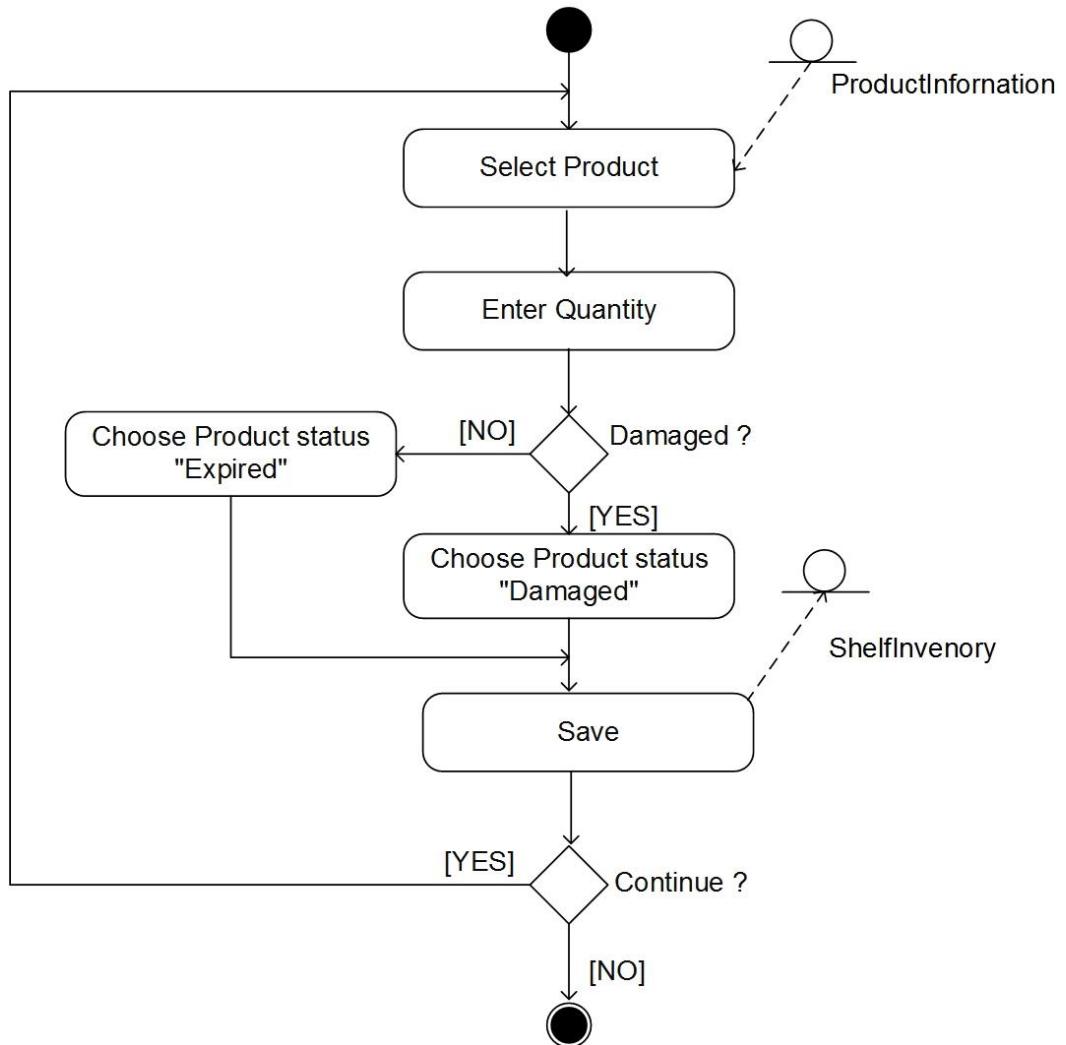
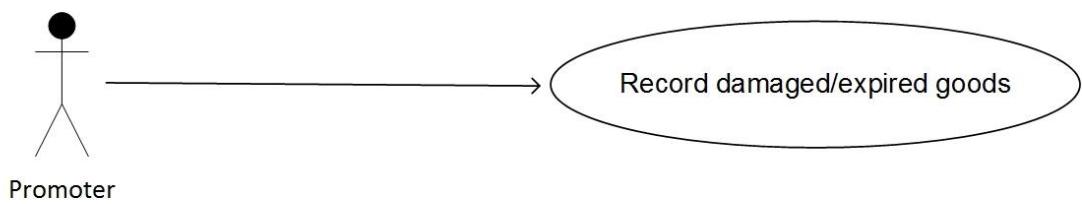
4.3.5 Generate Label

Use case	Generate label
Actor	promoter
Purpose	To Generate the label with new / changed price.
Pre-condition	User will trigger this use case when he there is a change in price.
Post-condition	After the labels are generated the status is updated in price change.



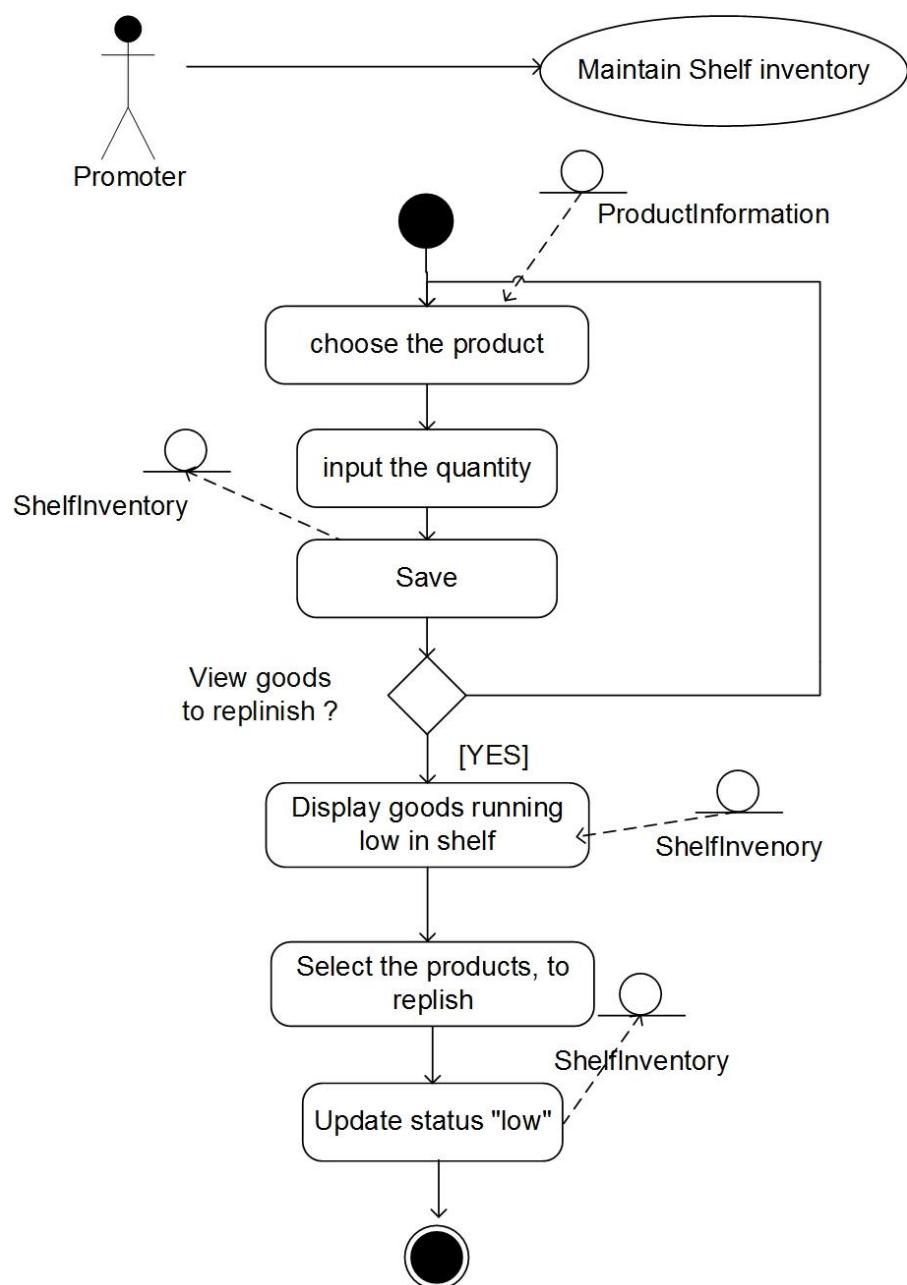
4.3.6 Record damaged / expired goods

Use case	Record damaged/expired goods
Actor	Promoter
Purpose	To update the shelf inventory, when he sees a damaged product or expired item.
Pre-condition	User will trigger this use case when he spots damaged or expired products in the shelf.
Post-condition	Status of the goods is changed. For expired products, status - "Expired", for damaged products, status – "Damaged" and the shelf inventory is updated.



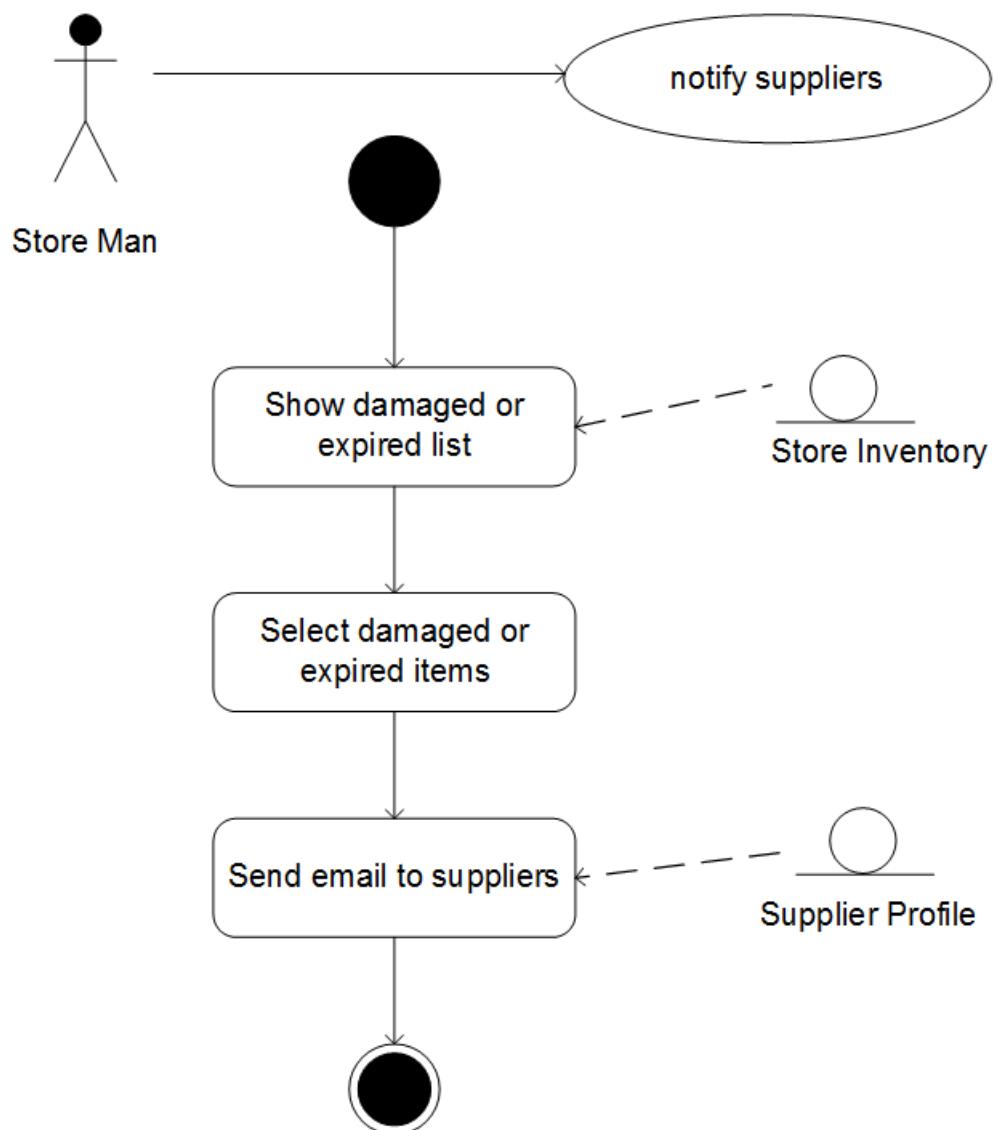
4.3.7 Maintain Shelf Inventory

Use case	Maintain shelf inventory
Actor	Promoter
Purpose	To update the shelf inventory, after he receives the products from store and the system will automatically display the products that are running low in shelves and display a list & User confirms the list, to replenish the products.
Pre-condition	User will trigger this use case when he receives goods from the store and also when he wants to confirm the replenish list.
Post-condition	Status of the goods is changed. For new shelf inventory, status - "In Stock", for confirmed replenish list, status – "Low" and the shelf inventory is updated.



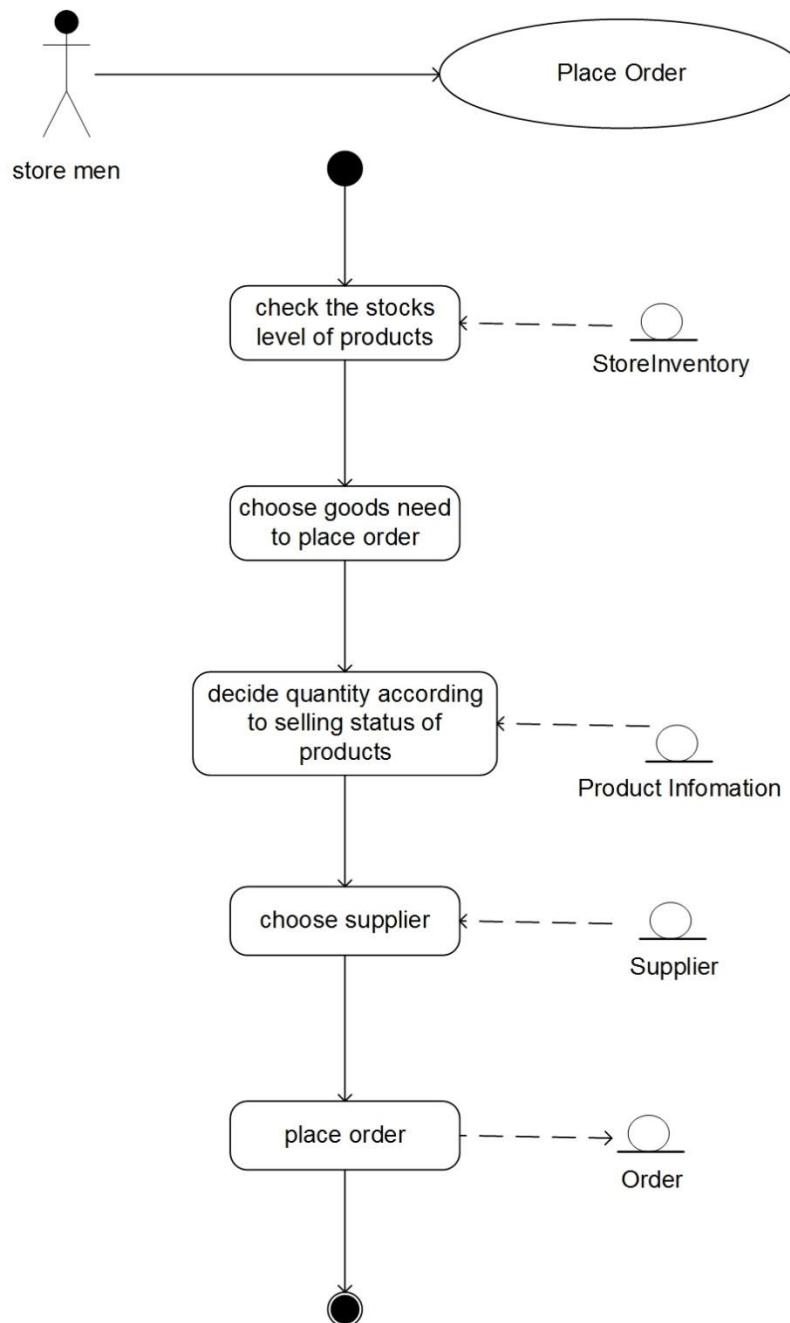
4.3.8 Notify Suppliers

Use case	Notify suppliers
Actor	store men
Purpose	Send email to the suppliers for damaged or expired goods information
Pre-condition	User will trigger this use case when he selected the damaged or expired goods.
Post-condition	The emails which have damaged or goods list, send to associate suppliers.



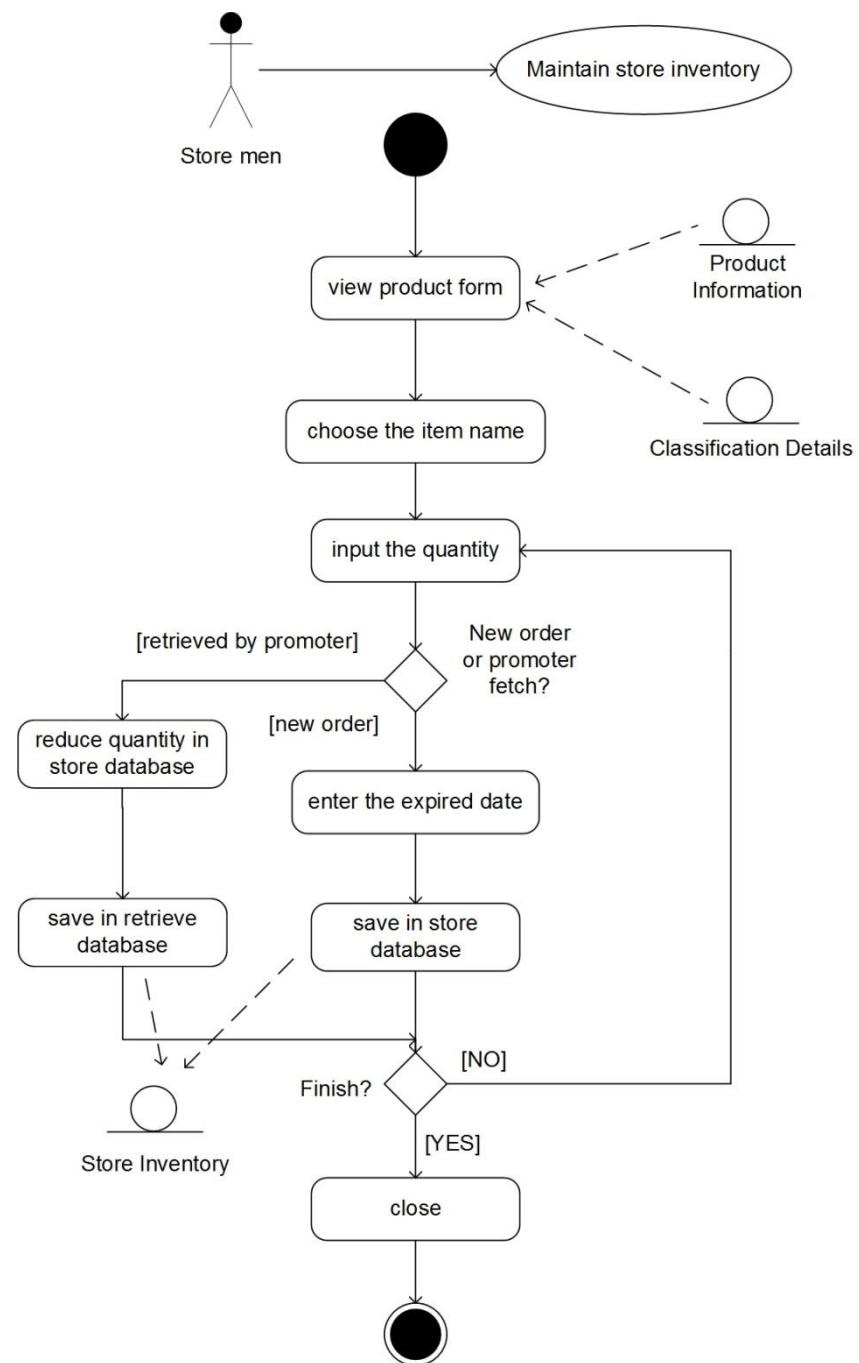
4.3.9 Place Order

Use case	Place order
Actor	store men
Purpose	To purchase different goods according to store inventory and product information
Pre-condition	User will trigger this use case when goods in store are running low
Post-condition	Choose good need to place and send new order to suppliers



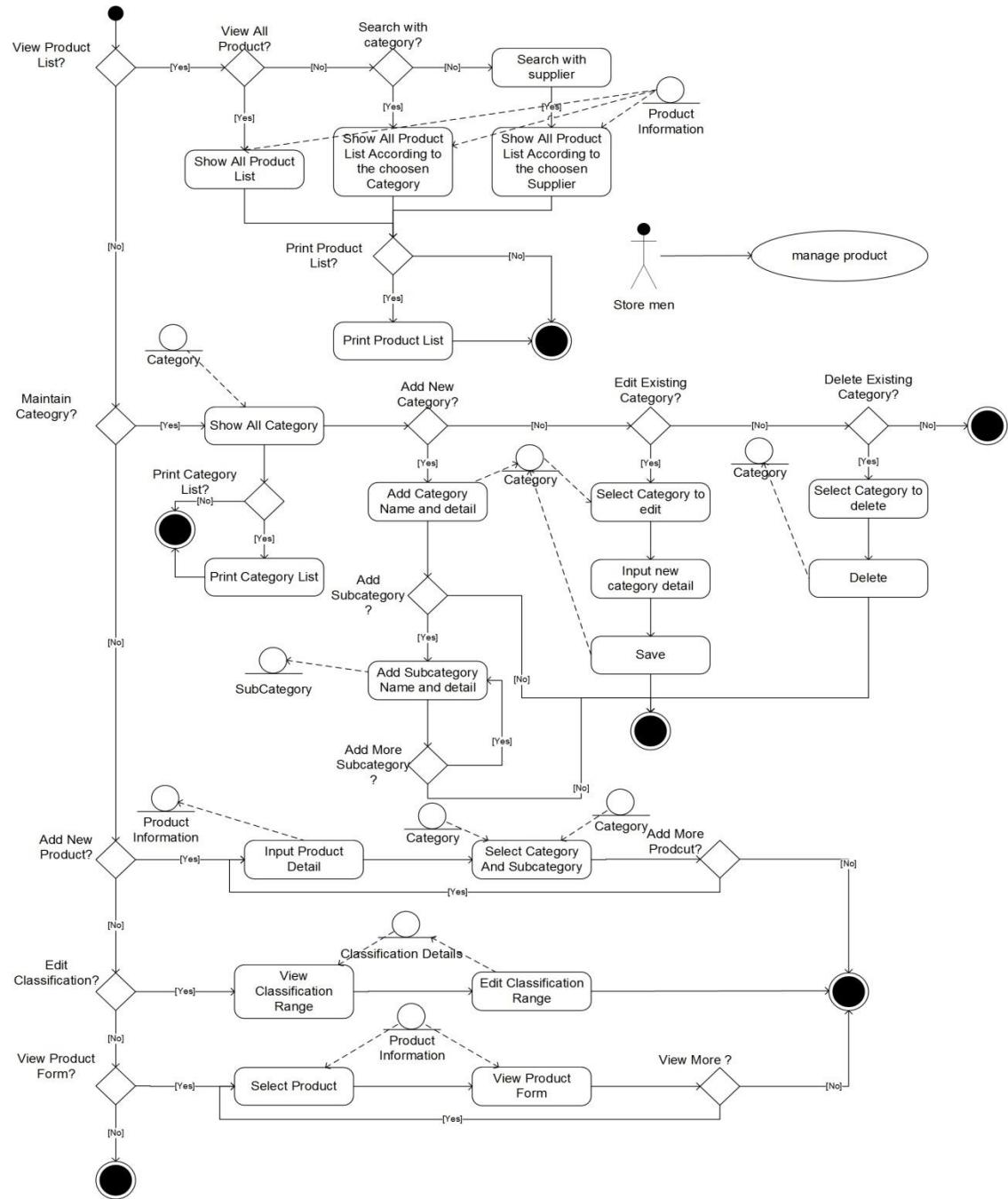
4.3.10 Maintain Store Inventory

Use case	Maintain store inventory
Actor	store men
Purpose	To record goods retrieve or arrive.
Pre-condition	User will trigger this use case when place order or goods on shelf are running low.
Post-condition	Increase quantities and save into system store database when new goods are arriving, decrease quantities and save into system retrieve database when promoters retrieve goods.



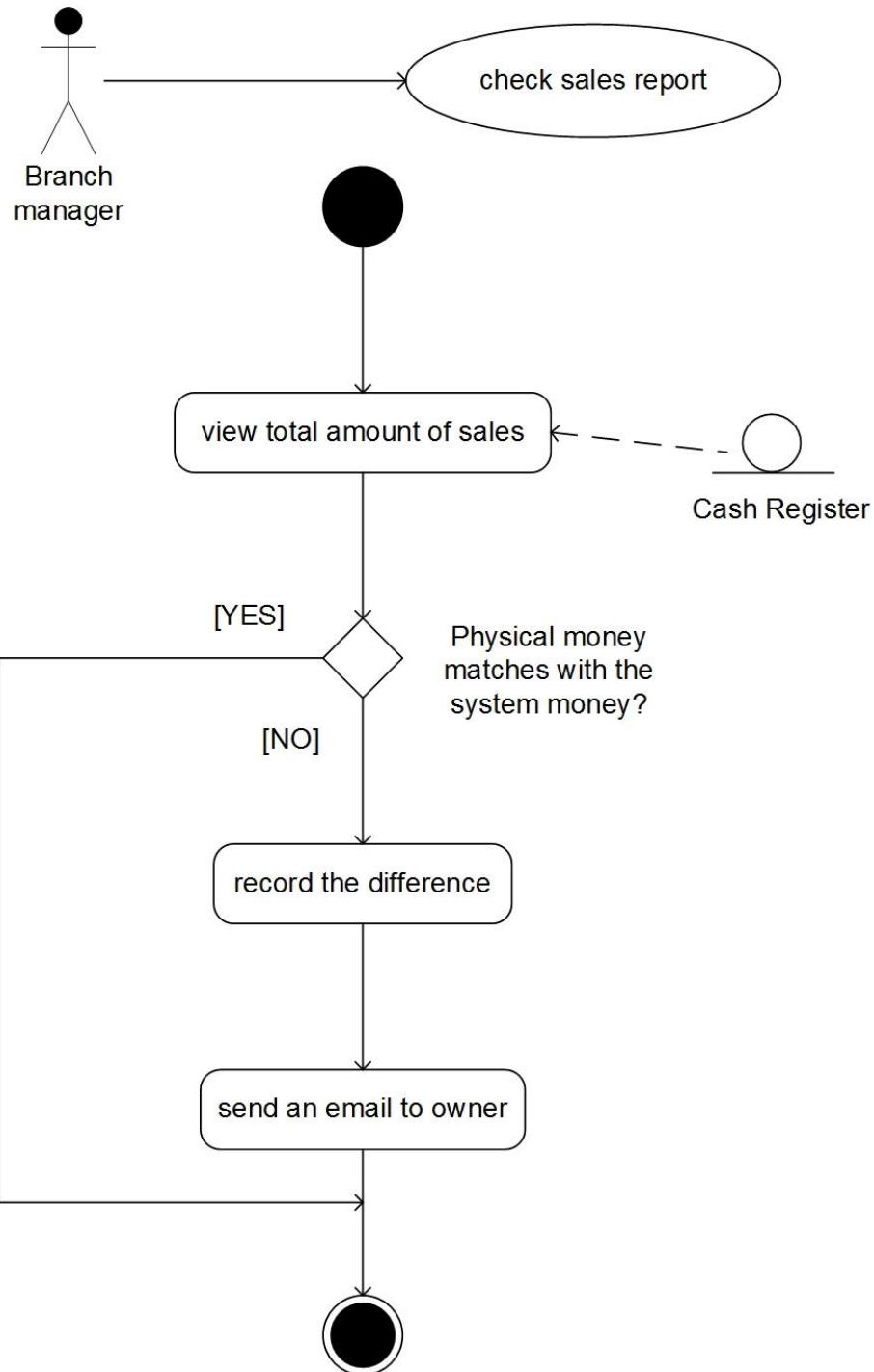
4.3.11 Manage Product

Use case	Manage product
Actor	branch manager
Purpose	To view the product list or to manage category or classification range or product form
Pre-condition	User will trigger when user want to manage product related details.
Post-condition	Tables are updated appropriately.



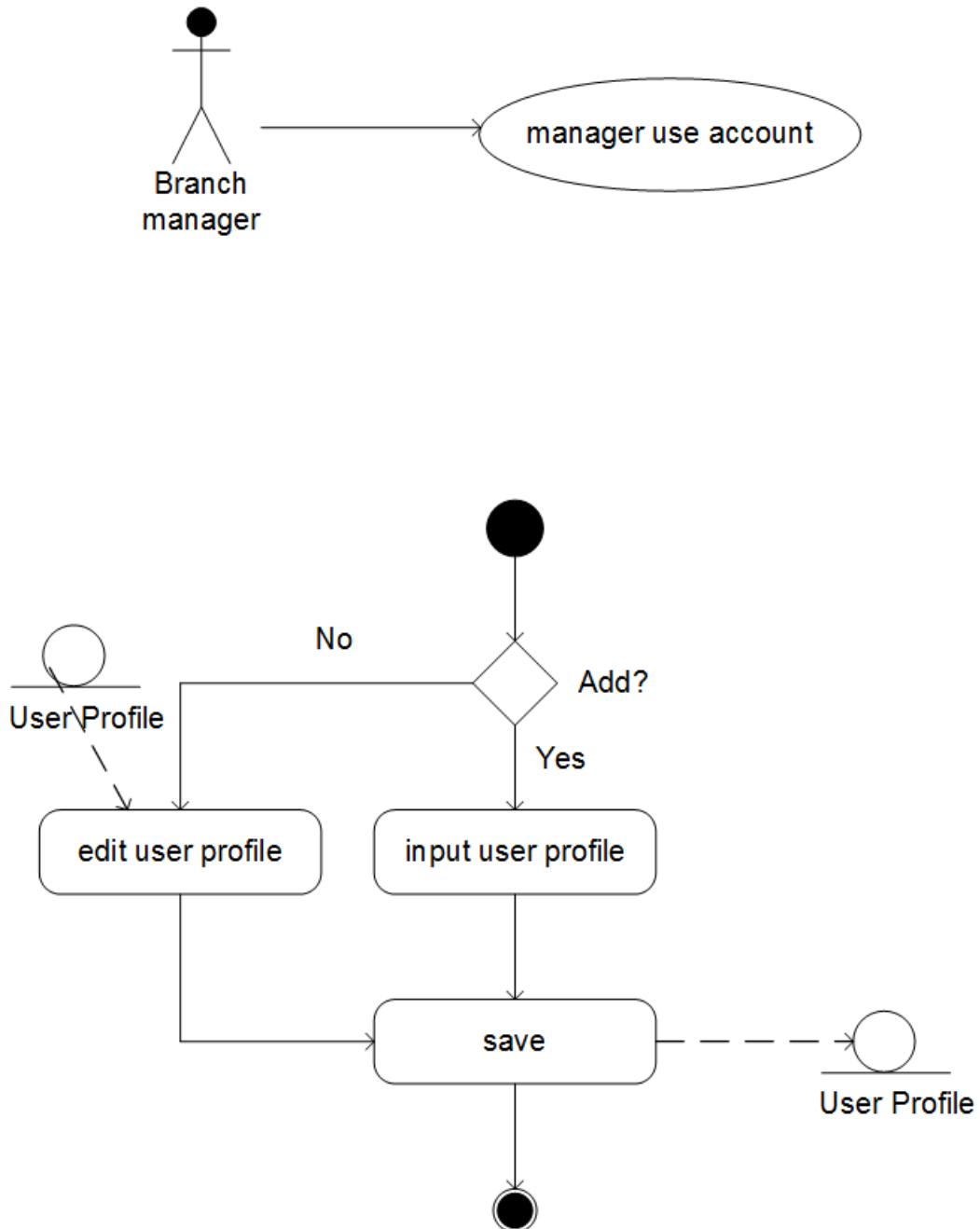
4.3.12 Check Sales Report

Use case	Check sales report
Actor	branch manager
Purpose	To generate the end-of day sales report, and send an email to the manager and store man to let them know.
Pre-condition	User will trigger this use case when the shift is finished.
Post-condition	The end-of-day sales record will be generated, and an email will be sent to the store man and the branch manager.



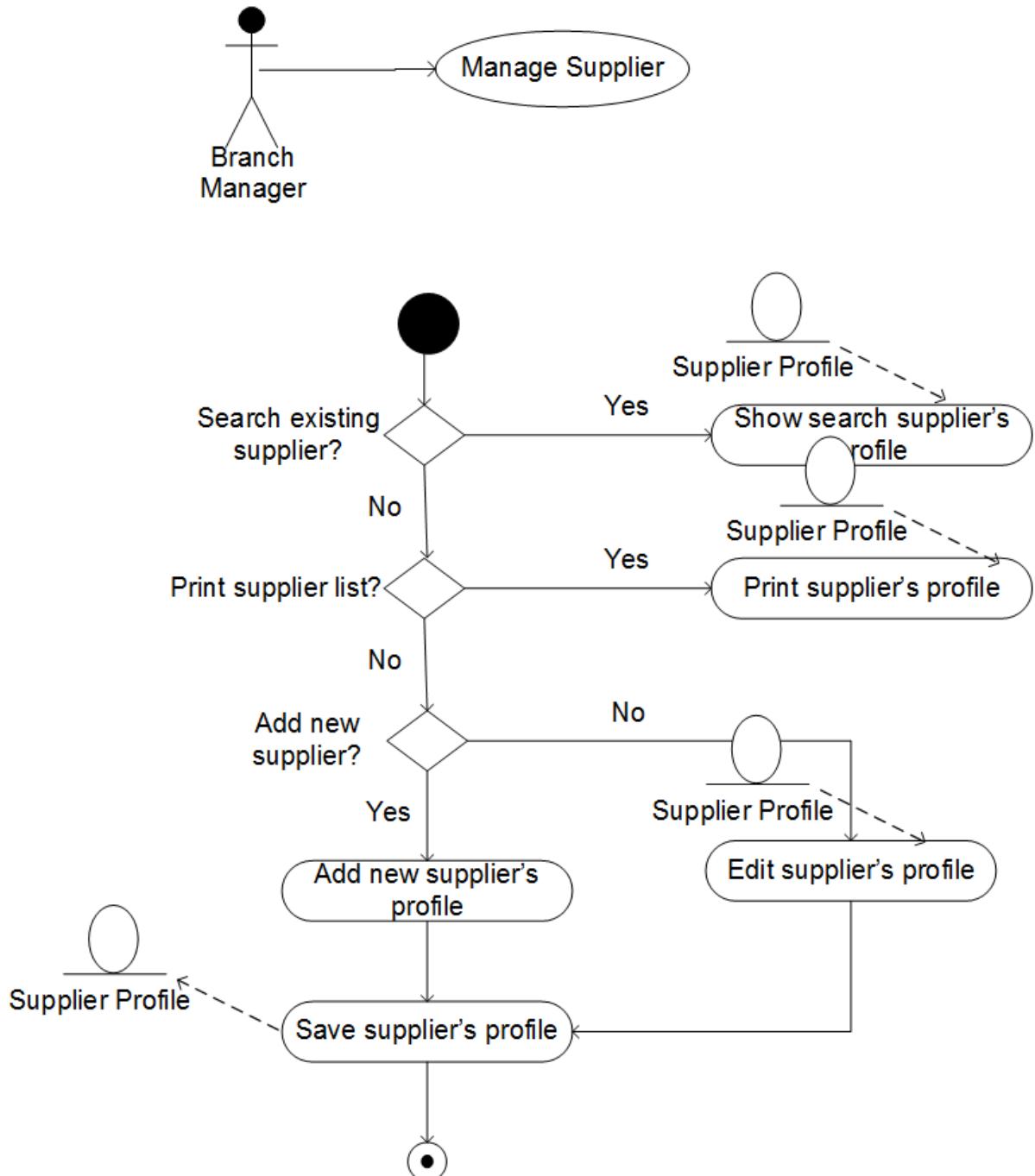
4.3.13 Manage User Account

Use case	Manage user account
Actor	branch manager
Purpose	Allow branch manager to add, delete and edit users' account.
Pre-condition	Hire new staff, change users' profile or fire staff.
Post-condition	To add new staff profile and create new account, correct user account or delete.



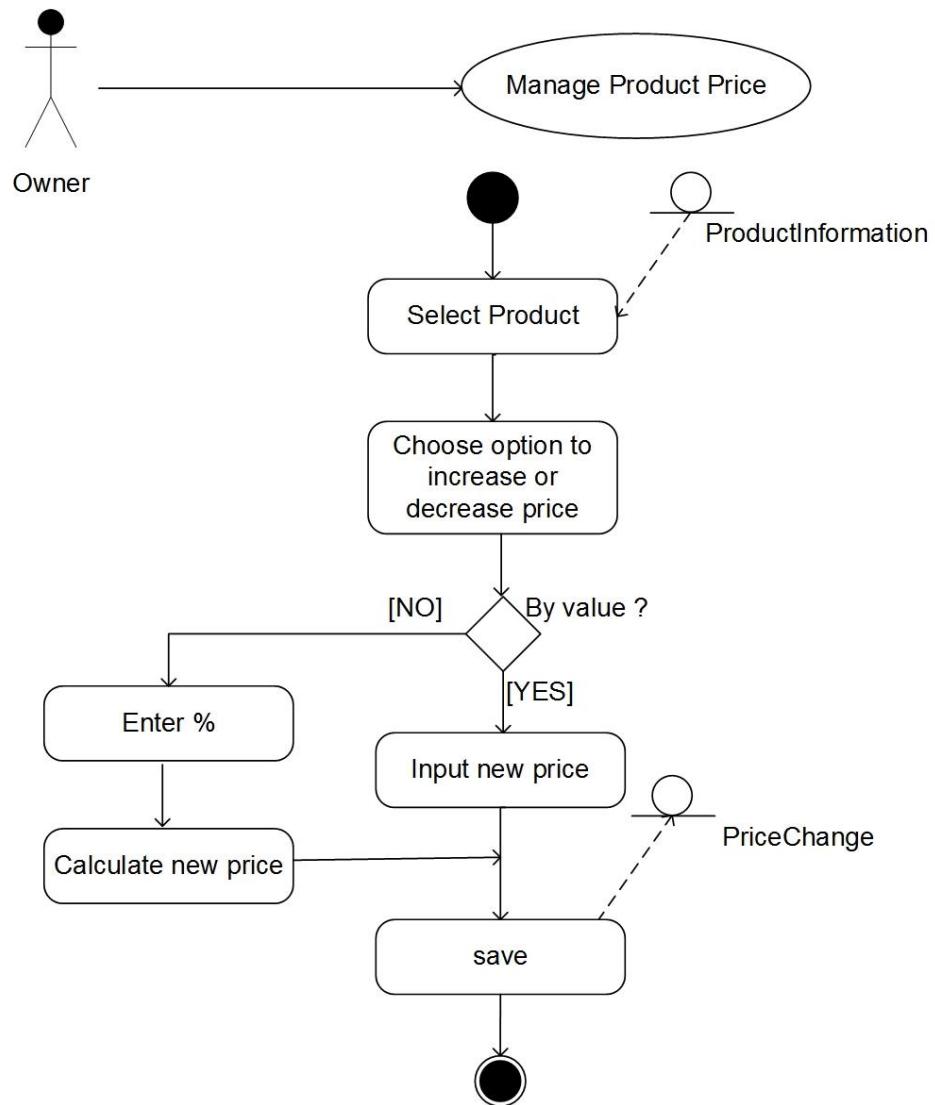
4.3.14 Manage Supplier

Use case	Manage supplier
Actor	branch manager
Purpose	To manage different suppliers, add, edit or delete.
Pre-condition	User will trigger this use case when new suppliers coming, or change suppliers.
Post-condition	Add new suppliers' information into system, changer or delete.

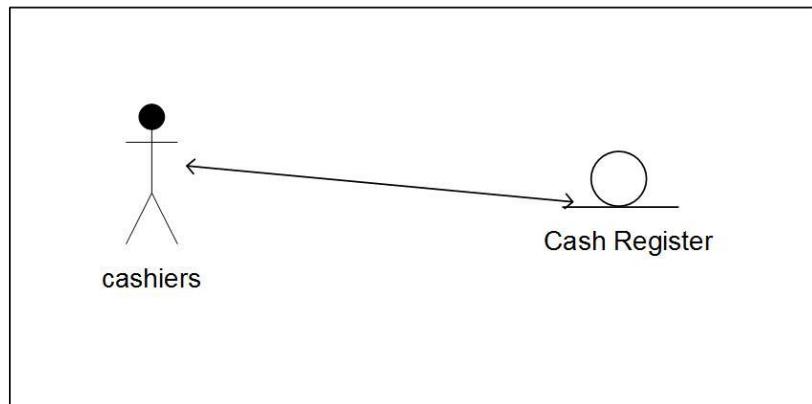
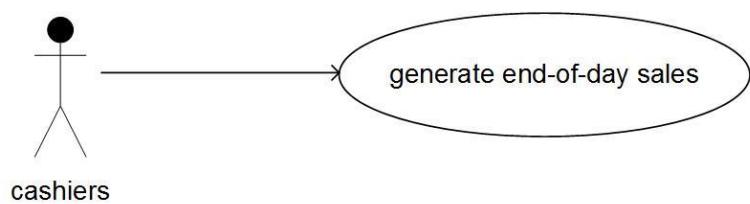
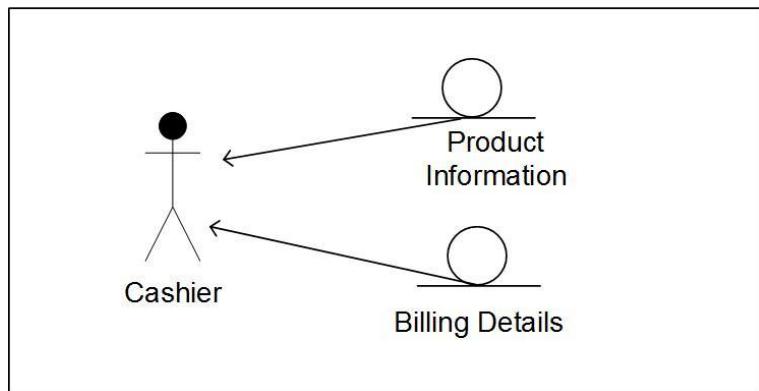
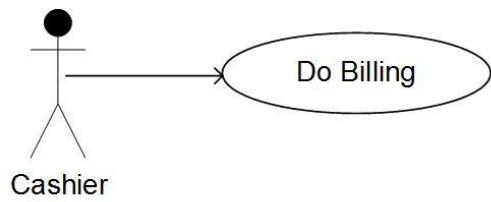


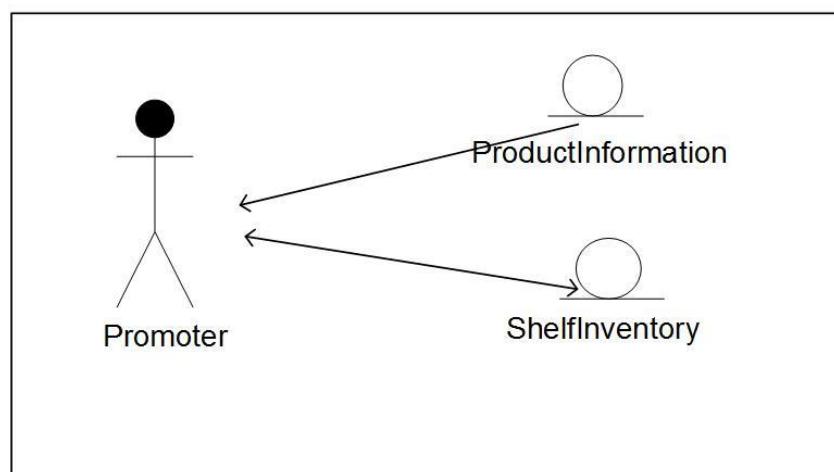
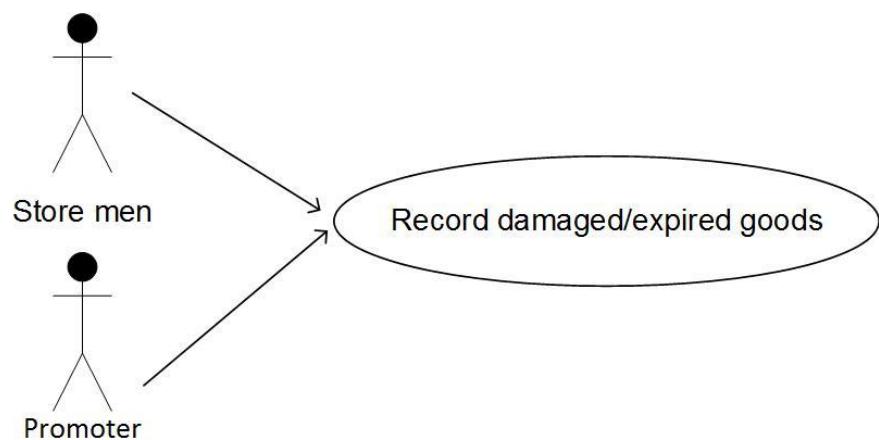
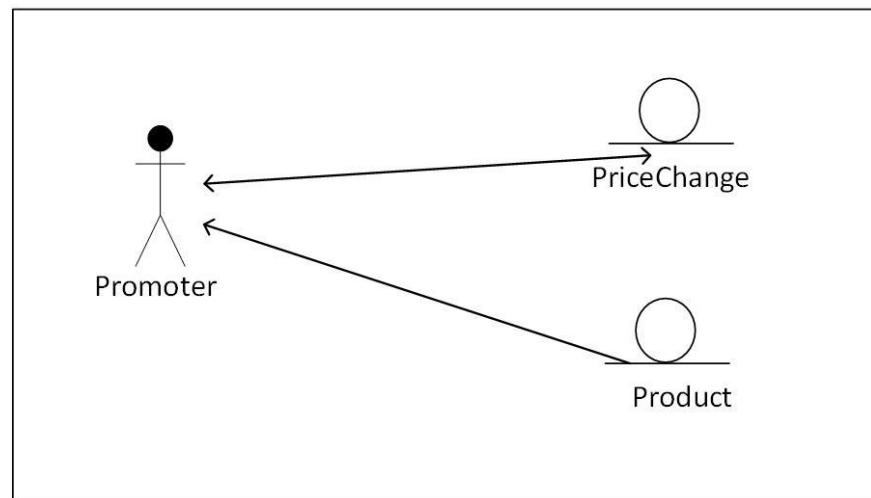
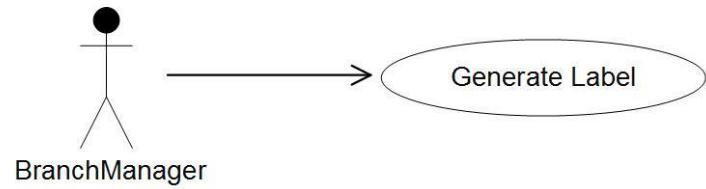
4.3.15 Manage Product Price

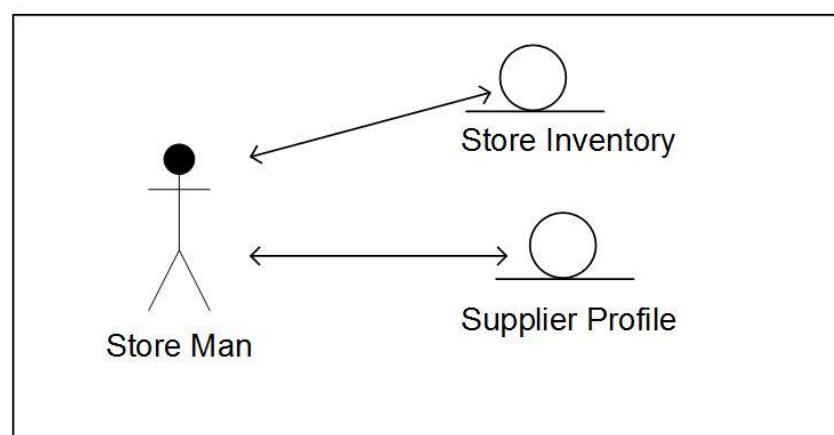
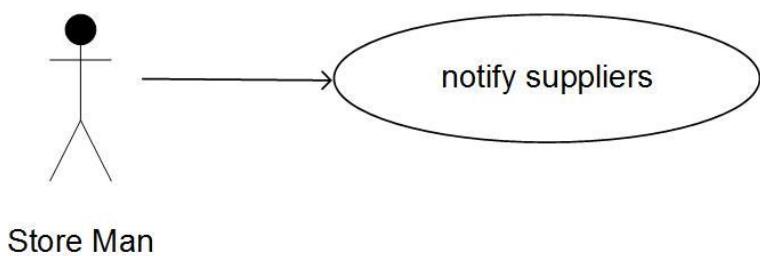
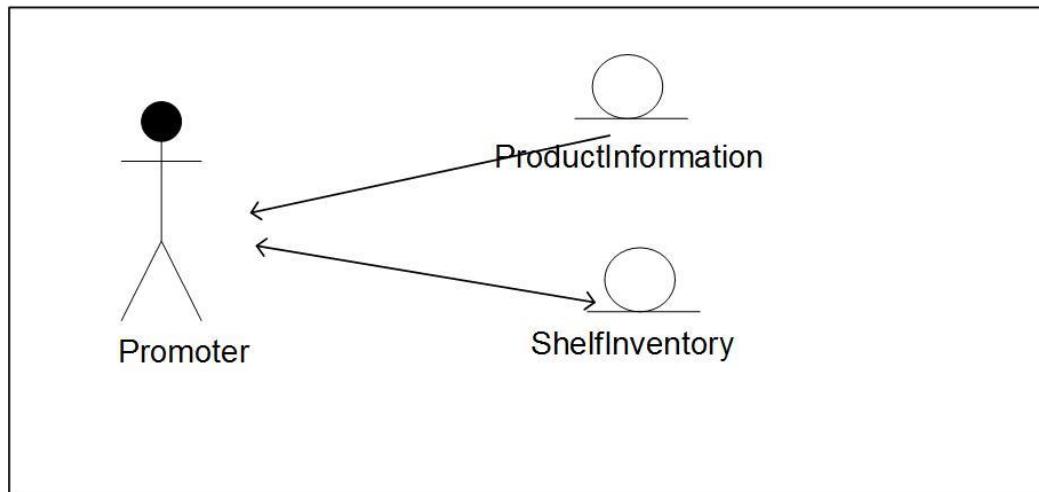
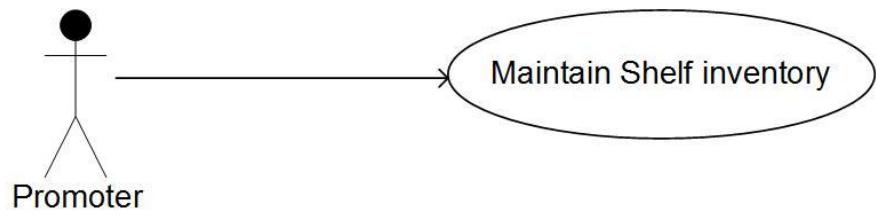
Use case	Manage product price
Actor	owner
Purpose	To Increase or decrease the price of the products.
Pre-condition	User will trigger this use case when he receives products from suppliers, if there is a need to change the prize.
Post-condition	After the prices are changed, they are updated in product table and change price table. Change price table is then used when the user needs to generate new labels for the products.

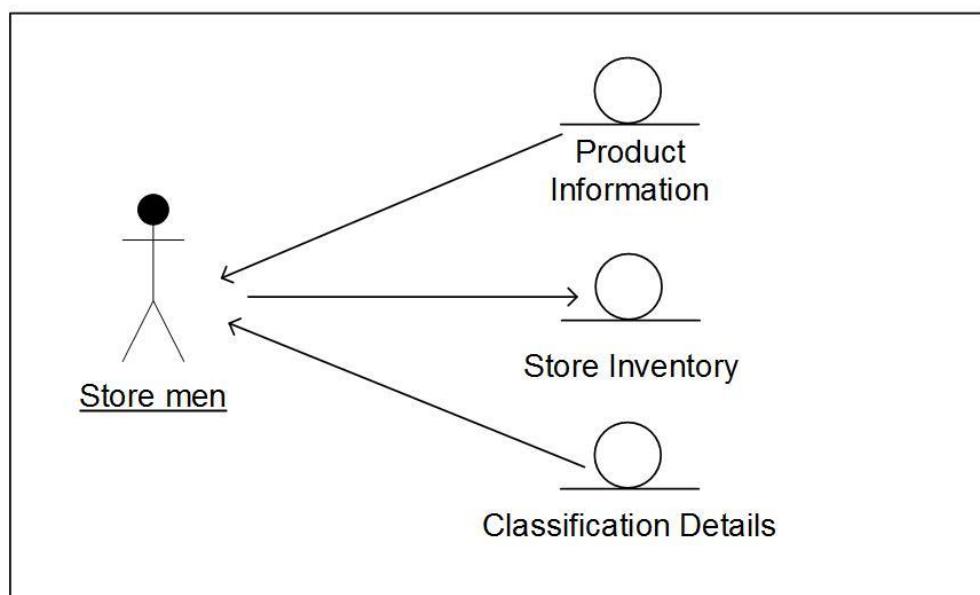
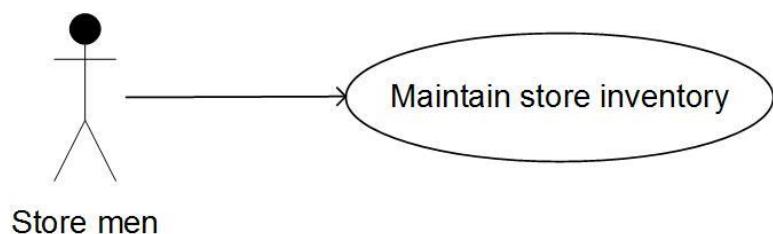
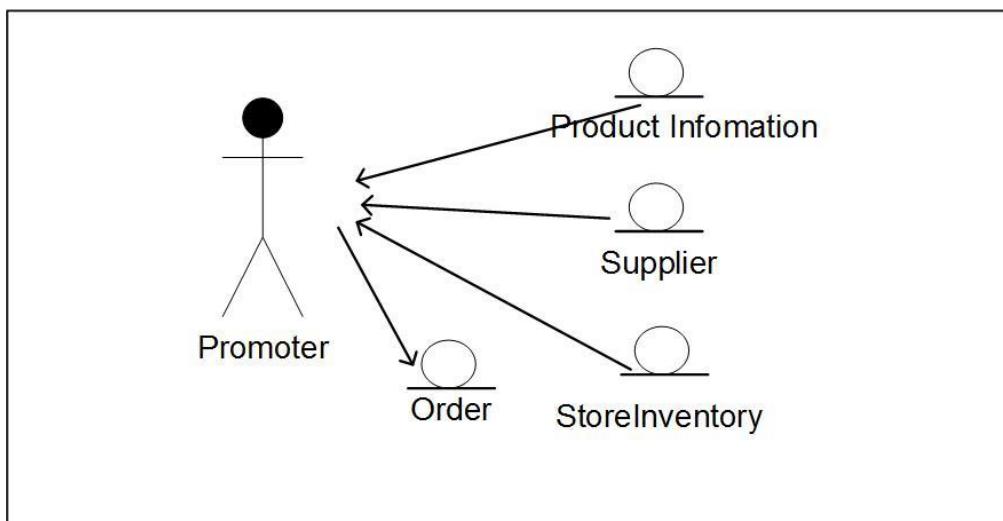
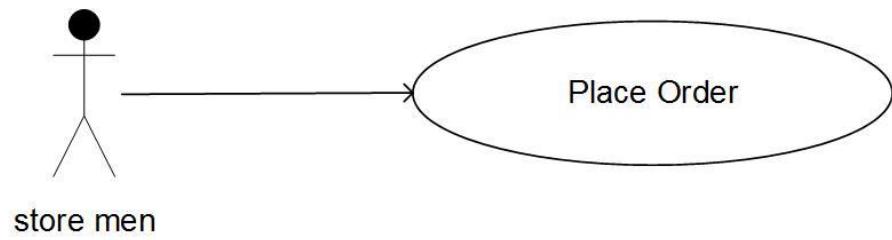


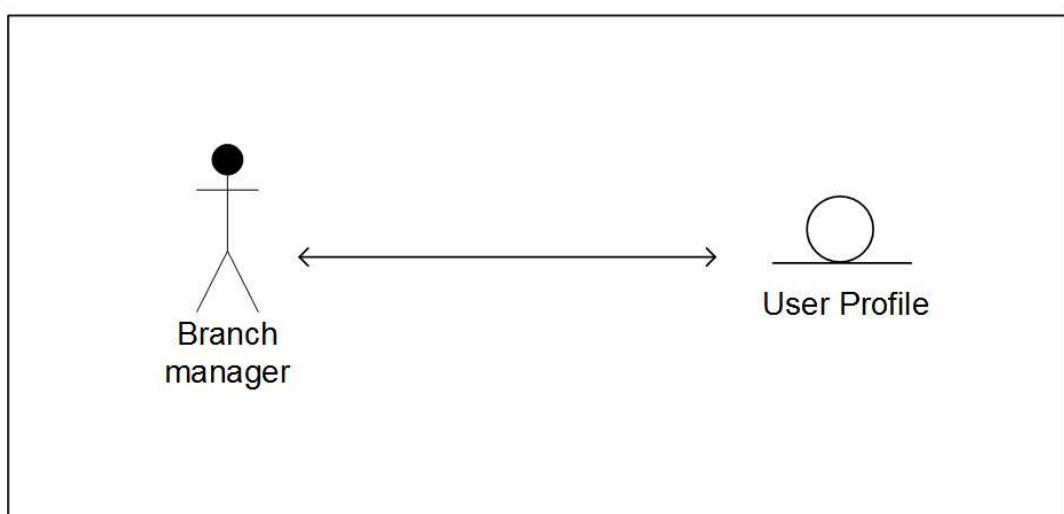
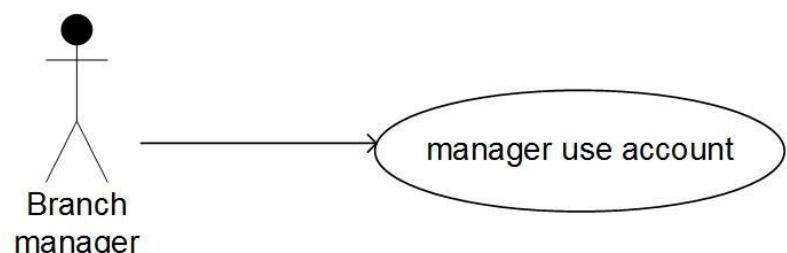
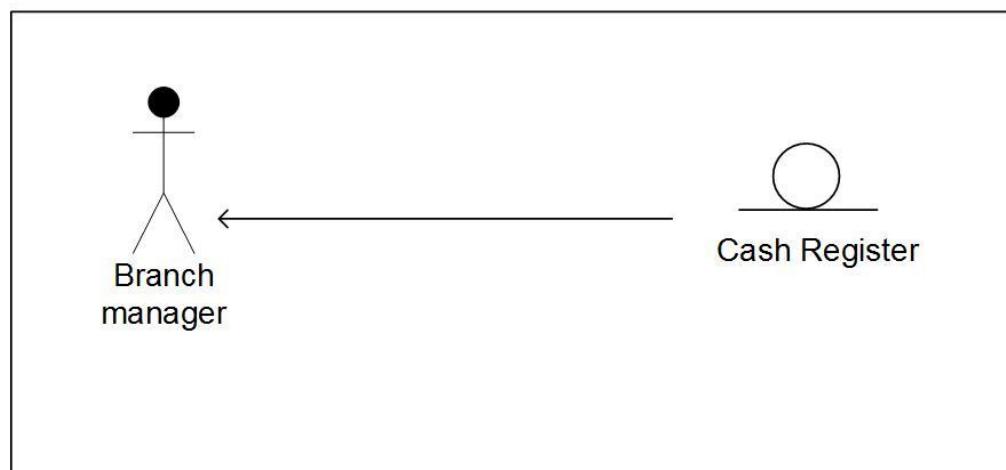
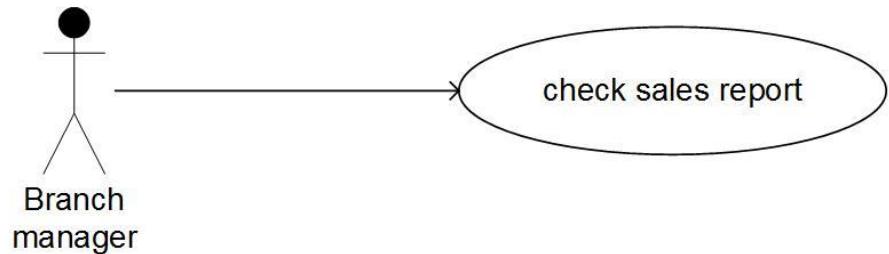
4.4 Class Diagram

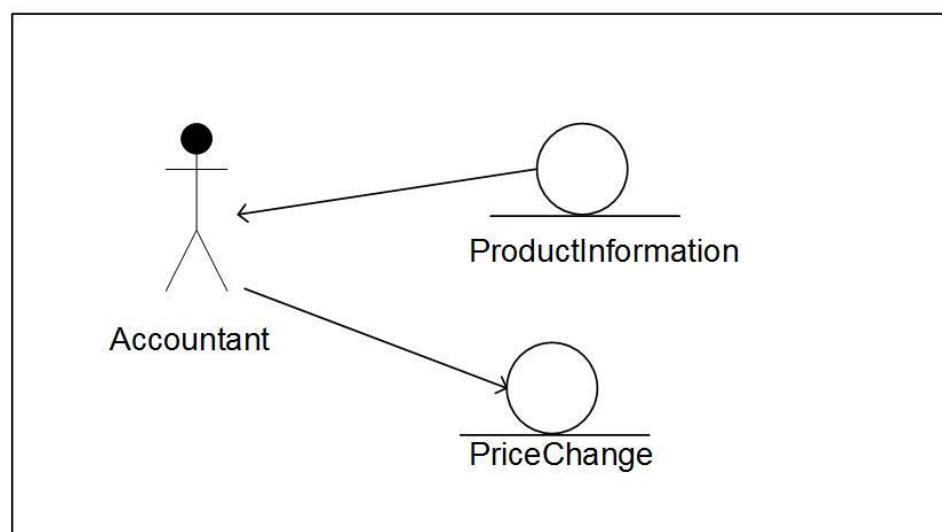
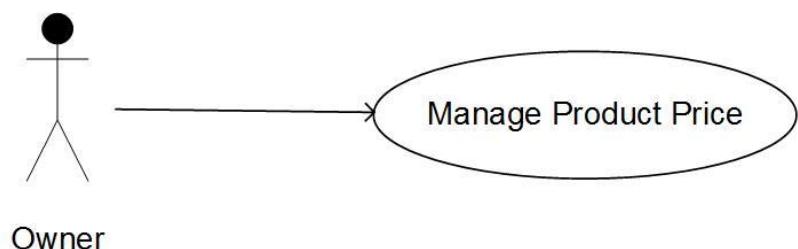
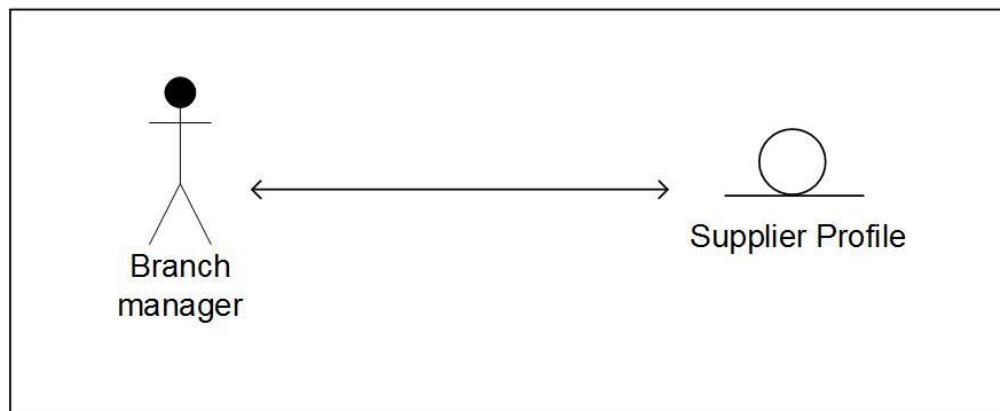
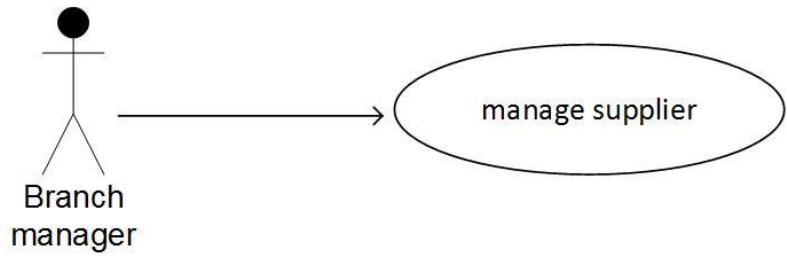












4.4 Screen / Print out Design

4.4.1 Login Screen



1 User enters his user name to login the Get Fresh Food system.

2 User enters his password.

3 On click, if the password match, user can login to Get Fresh Food. On successful login, he is which redirects him to his launch screen (eg) Cashier – Launch screen is Billing screen. If user forgets password, he need to ask branch manager to reset a default password. After logging in using default password user can change his password using “change Login Details”.

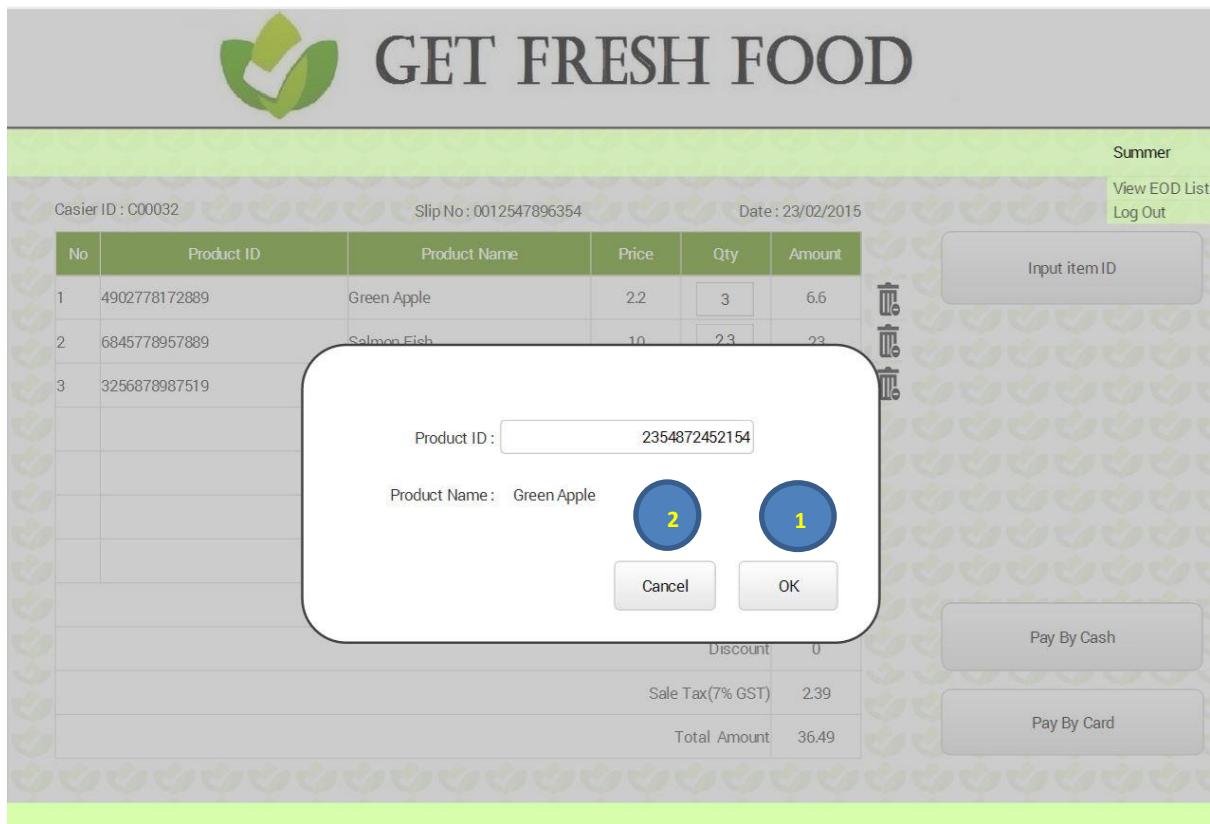
4.4.2 Cashier

4.4.2.1 Launch Screen – Billing



Screen 2.0

- 1 On click, user is redirected to Screen 2.1, to manually input the item id, if cannot scan the barcode
- 2 On click, user is redirected to Screen 2.2, to get the payment by cash.
- 3 On click, user is redirected to Screen 2.5, to get the payment by card.
- 4 On click, user is redirected to Screen 2.5, to View / print EndOf Sales Report. This activity is done at the end of each shift by the user.
- 5 The user can delete the selected product transaction.



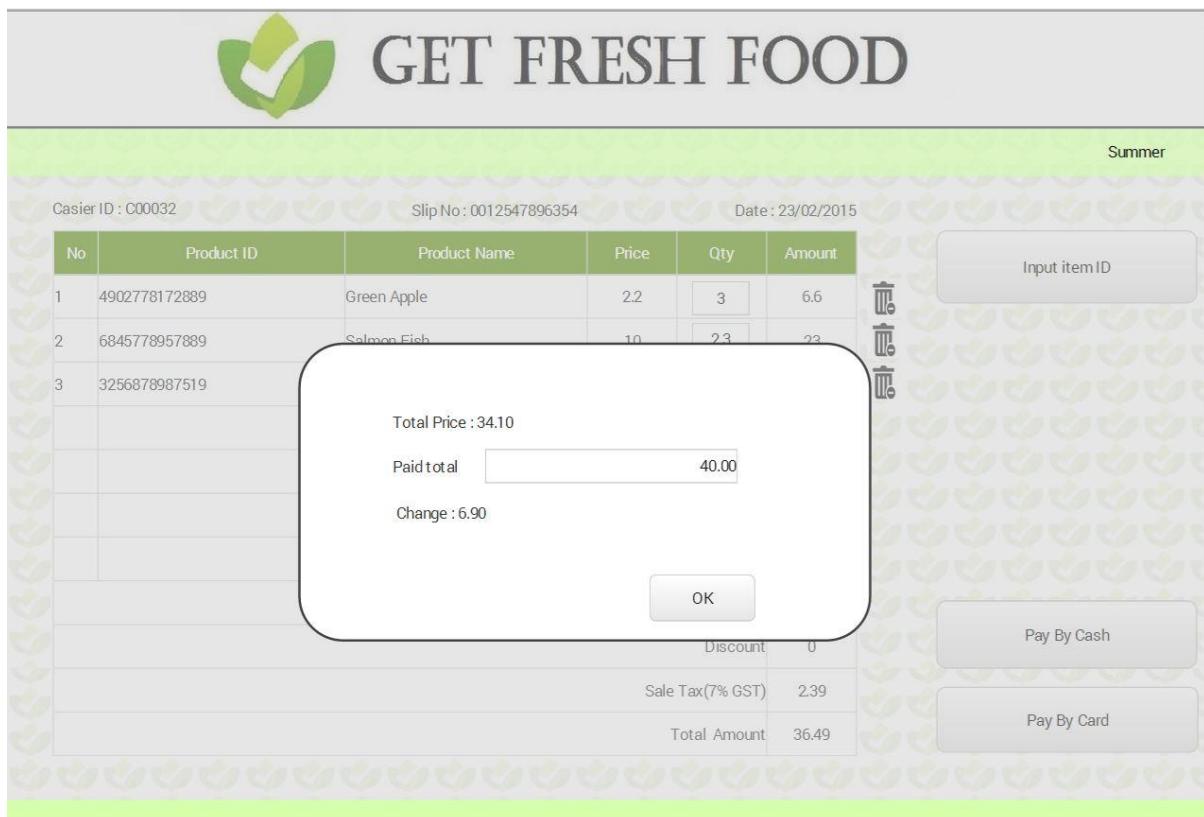
Screen 2.1

1

On click, the product is added to the current billing and can continue with next item for billing. User is redirected to Screen 2.0.

2

On click, the user is redirected to screen 2.0, without adding the product to the bill.



Screen 2.2

On click, the system will print the receipt (Screen 2.3) and the system is ready for next billing.

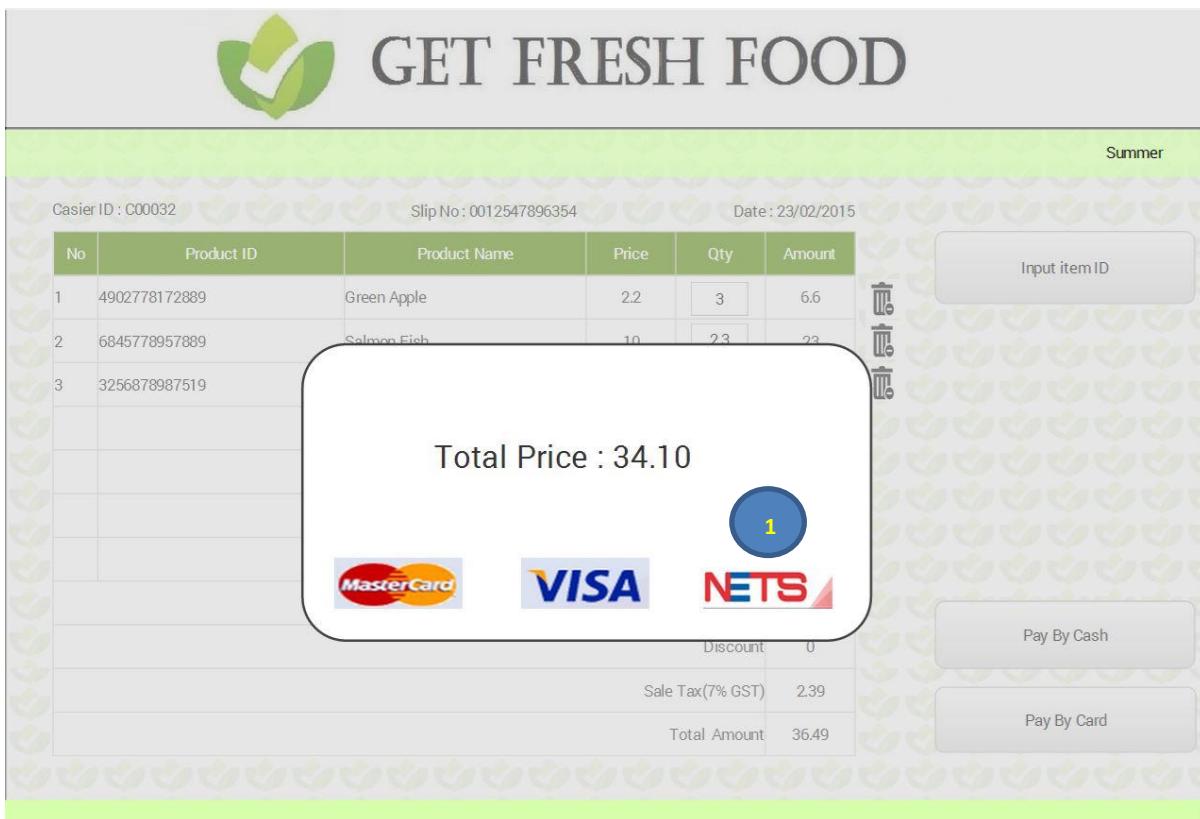
1

4.4.2.2 Billing – Receipt

Receipt

Get Fresh Food Orchard Road 100 Singapore 776699 GST:M2-0066884-7		
29/08/2014 17:38		cashier:03
Qty	Description	Amount
=====	=====	=====
1	apple	0.78
1	chocolate	7.60
	discount	-2.30
1	fish	7.40
=====	=====	=====
Total(3 items)		
13.48		
cash		
=====		
inclusive GST 7%		
0.88		
=====		
Thank you please come again! keep this for exchange or refund		

Screen 2.3



Screen 2.4

User can print the receipt screen 2.3 and proceed with next transaction.

1

4.4.2.3 End of Sale List



GET FRESH FOOD

Summer

Casier ID : C00032

Date : 29 / 08 / 2015

No	Slip No	Pay Method	Total Amount
1	0012547896354	Card	23.60
2	0012547896369	Cash	365.30
3	0012547896496	Visa	45.30
4	0012547896569	Visa	16.90
5	0012547896570	Cash	87.30
6	0012547896572	Cash	98.20
7	0012547896576	Master	65.30
8	0012547896577	Nets	24.30
9	0012547896579	Cash	98.30
10	0012547896580	Cash	78.30

Total NETs Pay	265.30
Total Visa Pay	360.10
Total Master Pay	10.30
Total Cash Pay	1956.10
Total Amount	2591.80

1 

Screen 2.5

User can print the EndOfSales Report Screen 2.6.

1



GET FRESH FOOD

Casier ID : C00032

End Of Sales Report

Date : 29 / 08 / 2015

No	Slip No	Pay Method	Total Amount
1	0012547896354	Card	23.60
2	0012547896354	Cash	365.30
3	0012547896354	Visa	45.30
4	0012547896354	Visa	16.90
5	0012547896354	Cash	87.30
6	0012547896354	Cash	98.20
7	0012547896354	Master	65.30
8	0012547896354	Nets	24.30
9	0012547896354	Cash	98.30

Total NETs Pay	265.30
Total Visa Pay	360.10
Total Master Pay	10.30
Total Cash Pay	1956.10
Total Amount	2591.80

Screen 2.6

4.4.3 Promoter

4.4.3.1 Maintain Shelf Inventory – Launch Screen

Generate Record Maintain View

Candice

Maintain Shelf Inventory

Search :

No	Product ID	Product Name	Qty	Delete	Edit
1	0254879587453	Green Apple	60		Edit
2	3658798521545	Grape Fruit	35		Edit
3	3658798568549	Mangos	50		Edit
4	9858798528745	Banana	16		Edit
5	6852798521547	Blackberry	75		Edit
6	3255898521898	Blueberry	35		Edit
7	3652589874521	Milk	435		Edit
8	3265487412256	Water 1.5L	58		Edit
9	9321554893365	Lemon	46		Edit
10	1548785452321	Cranberry	37		Edit
11	9832012068057	Star fruit	60		Edit
12	0315420369875	Grape	25		Edit

Add More Product

View Replenish Goods

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Screen 3.0

1 Used to add new product in the shelfe inventory, redirected to Screen 3.1

2 Used to edit the shelf inventory redirected to Screen 3.2

3 Used to delete the selected product from shelf inventory, redirected to screen 3.3

4 Used to view the list of goods which are low in inventory, redirected to screen 3.11

Generate Record Maintain View

Candice

Maintain Shelf Inventory

Search :

No	Product ID	Product Name	Qty	Status	
1	0254879587453	Green Apple	100	In Stock	Edit
2	3658798521545	Grapefruit	50	In Stock	Edit
3	3658798568549	Mango	80	In Stock	Edit
4	9858798528745	Banana	120	In Stock	Edit
5	6852798521547	Blackberry	40	In Stock	Edit
6	3255898521898	Blueberry	60	In Stock	Edit
7	3652589874521	Milk	435		Edit
8	3265487412256	Water 1.5L	58		Edit
9	9321554893365	Lemon	46		Edit
10	1548785452321	Cranberry	37		Edit
11	9832012068057	Star fruit	60		Edit
12	0315420369875	Grape	25		Edit

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Screen 3.1

- 1 Used to confirm the entry in the shelfe inventory, redirected to Screen 3.0
- 2 Used to cancel the current operation, redirected to Screen 3.0

Generate Record Maintain View

Candice

Maintain Shelf Inventory

Search:

No	Product ID	Product Name	Qty	Action
1	0254879587453	Green Apple	60	Edit
2	3658798521545	Grape	58	Edit
3	3658798568549	Mango	46	Edit
4	9858798528745	Banana	37	Edit
5	6852798521547	Blackberry	60	Edit
6	3255898521898	Blueberry	25	Edit
7	3652589874521	Milk	435	Edit
8	3265487412256	Water 1.5L	58	Edit
9	9321554893365	Lemon	46	Edit
10	1548785452321	Cranberry	37	Edit
11	9832012068057	Star fruit	60	Edit
12	0315420369875	Grape	25	Edit

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Screen 3.2

1

Used to confirm the changes in the shelfe inventory, redirected to Screen 3.0

2

Used to cancel the current operation, redirected to Screen 3.0



GET FRESH FOOD

Generate Record Maintain View Candice

Maintain Shelf Inventory

Search :

No	Product ID	Product	Quantity	Action
1	0254879587453	Green Apple	450	Edit
2	3658798521545	Grape	58	Edit
3	3658798568549	Mango	46	Edit
4	9858798528745	Banana	37	Edit
5	6852798521547	Blackberry	60	Edit
6	3255898521898	Blueberry	25	Edit
7	3652589874521	Milk	435	Edit
8	3265487412256	Water 1.5L	58	Edit
9	9321554893365	Lemon	46	Edit
10	1548785452321	Cranberry	37	Edit
11	9832012068057	Star fruit	60	Edit
12	0315420369875	Grape	25	Edit

! Delete Product
Are you sure you want to permanently delete this product?
1 [Yes](#) [No](#)

Add More Product
View Replenish Goods

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Screen 3.3

Used to confirm the deletion in the shelfe inventory. Yes, delete the product from shelfe inventory, No cancel the deletion. Redirected to Screen 3.0

4.4.3.1 Generate Label

Generate Label

	Product ID	Product Name	Changed Price	Delete
<input type="checkbox"/>	9658753256548	Mangos	3.20	
<input type="checkbox"/>	6985472154636	Grape Fruit	1.30	
<input type="checkbox"/>	5698752154632	Green Apple	2.30	
<input type="checkbox"/>	9870328912549	Banana	6.20	
<input type="checkbox"/>	3654187595420	Blackberry	5.30	
<input type="checkbox"/>	223658879925	Water 1.5L	9.00	
<input type="checkbox"/>	3655879921006	Blueberry	2.30	
<input type="checkbox"/>	9857452135893	Milk	3.20	
<input type="checkbox"/>	3658987510322	Cranberry	8.30	
<input type="checkbox"/>	1122036544898	Star fruit	5.20	

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Screen 3.3

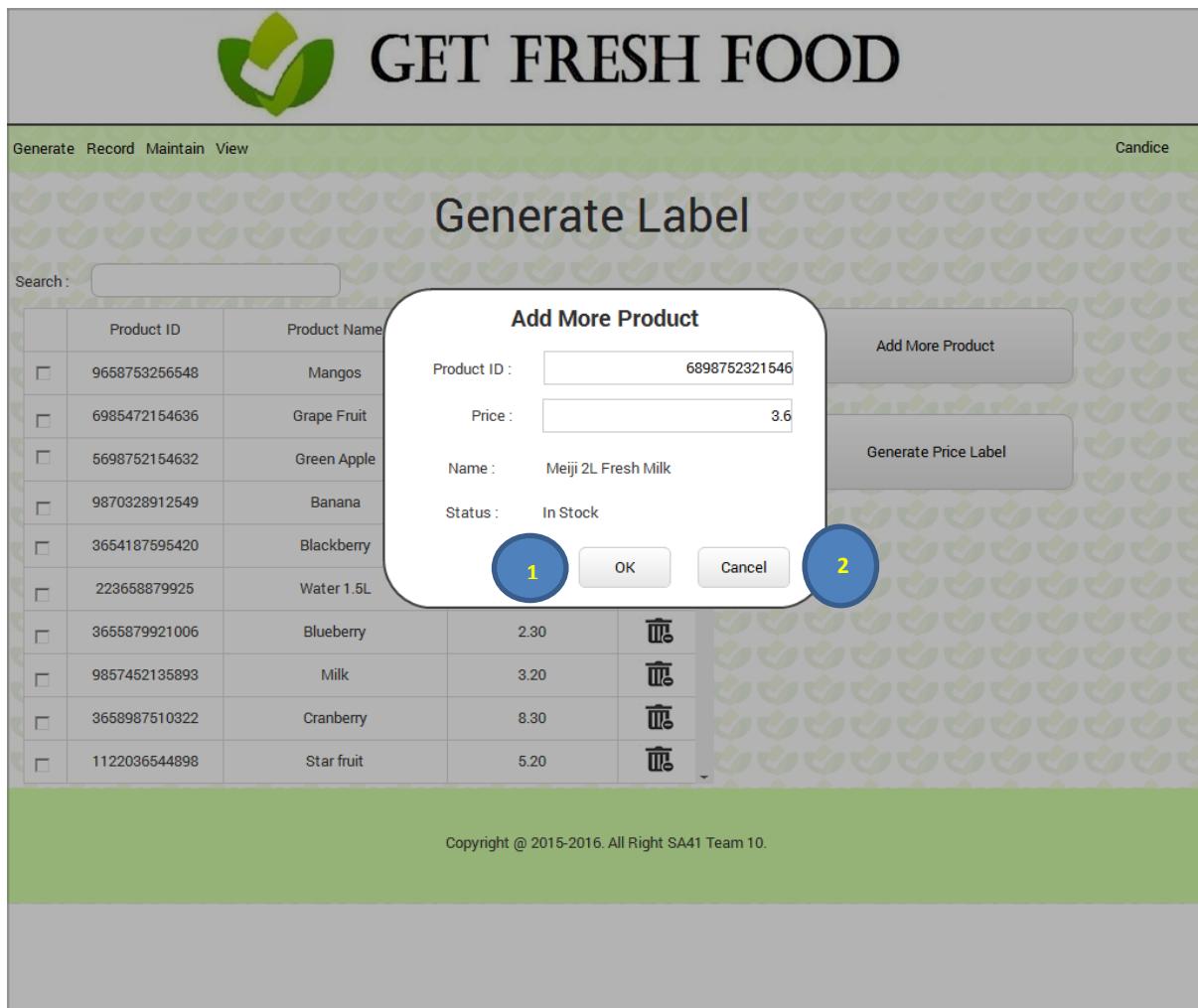
1 Used to add more products for generating labels. Redirected to Screen 3.4

2 Used to delete the product, if generate label is not required. Redirected to screen 3.5

3 Used to print the label for the product shelves. Sample print Screen 3.6

4 Used to search the product. List to generate label.

5 Multi select or single selection can be done for printing the labels.



Screen 3.4

Used to confirm the entry in generate label list, redirected to Screen 3.3

1

Used to cancel the current operation, redirected to Screen 3.3

2

The screenshot shows a web-based application titled "GET FRESH FOOD". The header includes a logo of two green leaves with a checkmark, the title "GET FRESH FOOD", and a navigation menu with links: Generate, Record, Maintain, View, and a user name "Candice". Below the header is a search bar labeled "Search :". The main content area is titled "Generate Label". A table lists products with columns: Product ID, Product Name, Price, and Delete icon. A modal dialog box is centered over the table, containing a red exclamation mark icon, the text "Delete Product", and the question "Are you sure you want to permanently delete this product?". Two buttons at the bottom of the dialog are "Yes" and "No". A yellow circle with the number "1" is overlaid on the "Yes" button. In the top right corner of the main content area, there are two buttons: "Add More Product" and "Generate Price Label". At the bottom of the page, a copyright notice reads "Copyright @ 2015-2016. All Right SA41 Team 10."

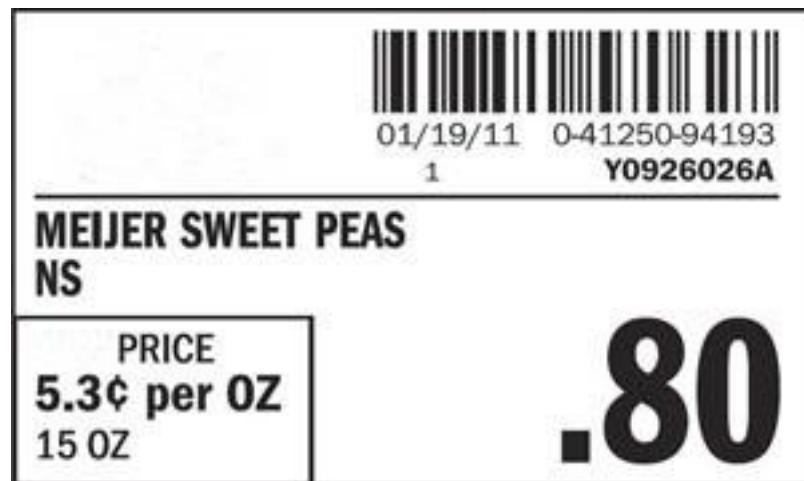
	Product ID	Product Name	Price	Delete
<input type="checkbox"/>	9658753256548	Mangos	2.30	
<input type="checkbox"/>	6985472154636	Grape Fruit	3.20	
<input type="checkbox"/>	5698752154632	Green Apple	8.30	
<input type="checkbox"/>	9870328912549	Banana	5.20	
<input type="checkbox"/>	3654187595420	Blackberry		
<input type="checkbox"/>	223658879925	Water 1.5L		
<input type="checkbox"/>	3655879921006	Blueberry		
<input type="checkbox"/>	9857452135893	Milk		
<input type="checkbox"/>	3658987510322	Cranberry		
<input type="checkbox"/>	1122036544898	Star fruit		

Screen 3.5

Used to confirm the deletion in the Generate list If clicked Yes, the product is deleted from generate list, if No cancel the deletion. Redirected to Screen 3.0

4.4.3.2 Label Printout

Sample Print for Label



Screen 3.6

4.4.3.3 Record Damaged / Expired Product

Select	Product ID	Product Name	Status	Qty	Edit
<input type="checkbox"/>	3569875412365	Meiji 2L Fresh Milk	Damaged	1	Edit
<input type="checkbox"/>	9658752321542	Sunfeast Multigrain Bread	Expired	20	Edit
<input type="checkbox"/>	9658700215456	Marie Gold 250mg plain	Damaged	10	Edit
<input type="checkbox"/>	9587452310023	Maggie Egg Noodles 100gm	Expired	3	Edit
<input type="checkbox"/>	5789542120321	Malaysia Tomato	Damaged	26	Edit
<input type="checkbox"/>	9854723654752	Fresh Egg 30's	Expired	10	Edit
<input type="checkbox"/>	2145879563258	Fresh Egg 20's	Damaged	9	Edit
<input type="checkbox"/>	2032014520689	Malaysia Lime	Damaged	12	Edit
<input type="checkbox"/>	9852321458452	Mineral Water 3L	Expired	13	Edit

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Screen 3.7

1 Used to add more products to the damaged/expired list. Redirected to Screen 3.8

2 Used to delete the product, if not identified as damaged or expired product. Redirected to screen 3.10

3 Used to edit the status of the products (Status – Damaged / Expired)

4 Used to print the list of damaged / expired product in the shelves.



GET FRESH FOOD

Generate Record Maintain View

Candice

Record Damaged/Expired Product List

Select	Product ID	Product Name
<input type="checkbox"/>	3569875412365	Meiji 2L Fresh Milk
<input type="checkbox"/>	9658752321542	Sunfeast
<input type="checkbox"/>	9658700215456	Marie Go
<input type="checkbox"/>	9587452310023	Maggie Egg
<input type="checkbox"/>	5789542120321	Malai
<input type="checkbox"/>	9854723654752	Fresh Egg 20's
<input type="checkbox"/>	2145879563258	Fresh Egg 20's
<input type="checkbox"/>	2032014520689	Malaysia Lime
<input type="checkbox"/>	9852321458452	Mineral Water 3L

Add Damaged/Expired Product

Product ID :

Qty :

Name : Meiji 2L Fresh Milk

Status : Damaged Expired

1 OK Cancel 2

Add More Product



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Screen 3.8

Used to confirm the entry in damaged / expired list, redirected to Screen 3.7

1

Used to cancel the current operation, redirected to Screen 3.7

2

GET FRESH FOOD

Generate Record Maintain View Candice

Record Damaged/Expired Product List

Select	Product ID	Name	Qty	Action
<input type="checkbox"/>	3569875412365	Meiji 2L Fresh Milk	3.6	Edit
<input type="checkbox"/>	9658752321542	Sunfeast	3.6	Edit
<input type="checkbox"/>	9658700215456	Mario	3.6	Edit
<input type="checkbox"/>	9587452310023	Maggie	3.6	Edit
<input type="checkbox"/>	5789542120321	M	3.6	Edit
<input type="checkbox"/>	9854723654752	Fresh Egg 20's	3.6	Edit
<input type="checkbox"/>	2145879563258	Fresh Egg 20's	9	Edit
<input type="checkbox"/>	2032014520689	Malaysia Lime	12	Edit
<input type="checkbox"/>	9852321458452	Mineral Water 3L	13	Edit

Add More Product

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Screen 3.9

1 Used to confirm the changes in the shelf inventory, redirected to Screen 3.7

2 Used to cancel the current operation, redirected to Screen 3.7

The screenshot shows a web-based application titled "GET FRESH FOOD". The header includes a logo of three green leaves, the title "GET FRESH FOOD", and a navigation menu with links: Generate, Record, Maintain, View, and a user name "Candice". Below the header is a section titled "Record Damaged/Expired Product List". A modal dialog box is displayed in the center, prompting the user to "Delete Product". The dialog asks, "Are you sure you want to permanently delete this product from list?", with "Yes" and "No" buttons. The "Yes" button is highlighted with a blue circle containing the number "1". In the background, there is a table listing products with columns: Select, Product ID, Name, and Edit. The table contains several rows of data. To the right of the table is a "Confirm" button and a printer icon.

Select	Product ID	Name	Edit
<input type="checkbox"/>	3569875412365	M	Edit
<input type="checkbox"/>	9658752321542	Sunfe	Edit
<input type="checkbox"/>	9658700215456	Mari	Edit
<input type="checkbox"/>	9587452310023	Maggie	Edit
<input type="checkbox"/>	5789542120321	M	Edit
<input type="checkbox"/>	9854723654752	A	Edit
<input type="checkbox"/>	2145879563258	Fresh Egg 20's	9 Edit
<input type="checkbox"/>	2032014520689	Malaysia Lime	12 Edit
<input type="checkbox"/>	9852321458452	Mineral Water 3L	13 Edit

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Screen 3.10

Used to confirm the deletion in the expired/damaged list, If clicked Yes, the product is deleted from generate list, if No cancel the deletion. Redirected to Screen 3.7

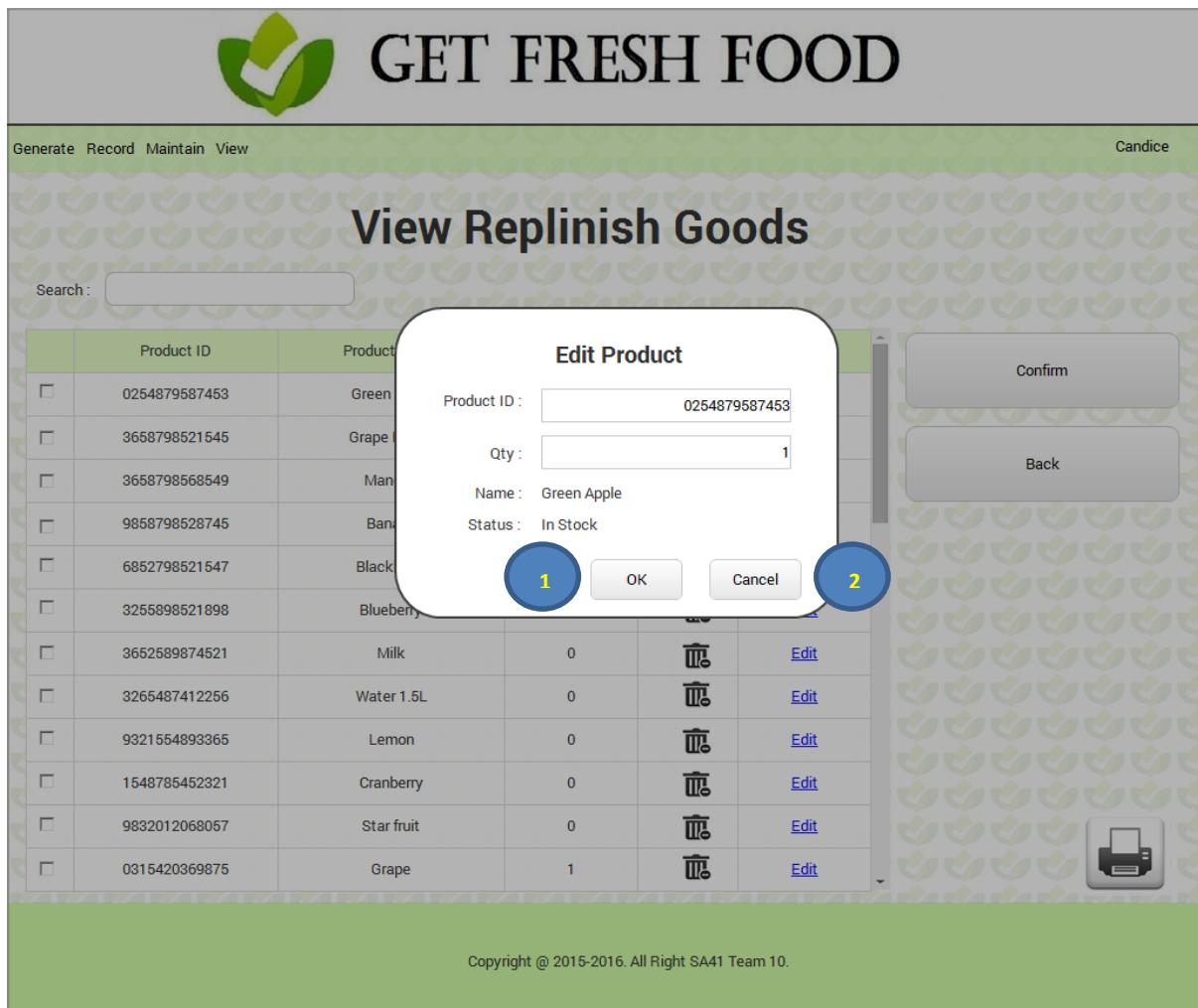
4.4.3.4 View Replenish Goods

The screenshot shows a user interface for managing inventory. At the top, there's a logo with three green leaves and the text "GET FRESH FOOD". Below the logo is a navigation bar with links: "Generate", "Record", "Maintain", and "View". On the right side of the header, the name "Candice" is displayed. The main area is titled "View Replenish Goods". It features a search bar labeled "Search:" followed by a text input field. To the right of the search bar are two blue circular buttons labeled "2" and "3". Further to the right is another blue circular button labeled "1" which has a tooltip "Confirm". Below the search bar is a table with the following columns: "Product ID", "Product Name", "Qty", "Delete", and "Edit". The table contains 12 rows of data. The first row shows Product ID 0254879587453 with Product Name "Green Apple" and Qty 2. The last row shows Product ID 0315420369875 with Product Name "Grape" and Qty 1. Each row has a "Delete" button (trash icon) and an "Edit" button (pencil icon). A vertical scroll bar is visible on the right side of the table. At the bottom of the screen, there's a copyright notice: "Copyright @ 2015-2016. All Right SA41 Team 10.".

Product ID	Product Name	Qty	Delete	Edit
0254879587453	Green Apple	2		Edit
3658798521545	Grape Fruit	3		Edit
3658798568549	Mangos	4		Edit
9858798528745	Banana	6		Edit
6852798521547	Blackberry	8		Edit
3256898521898	Blueberry	0		Edit
3652589874521	Milk	0		Edit
3265487412256	Water 1.5L	0		Edit
9321554893365	Lemon	0		Edit
1548785452321	Cranberry	0		Edit
9832012068057	Star fruit	0		Edit
0315420369875	Grape	1		Edit

Screen 3.11

- 1 Used to confirm the list of goods that are low in inventory, so the goods can be brought from store to shop. The user will select single / multi select to confirm the list.
- 2 Used to delete the product, if not required to replenish the goods.
- 3 Used to edit the low inventory list, redirected to screen 3.12
- 4 Used to print the goods that are running low in shelves.
- 5 On click, the user is redirected to screen 3.0
- 6 Single / multi select is allowed to perform functions (Edit & delete)



Screen 3.12

1 Used to confirm the changes in the low inventory list, redirected to Screen 3.11

2 Used to cancel the current operation, redirected to Screen 3.11



GET FRESH FOOD

Generate Record Maintain View

Candice

View Replenish Goods

Search :

	Product ID	Product Name	Quantity	Action
<input type="checkbox"/>	0254879587453	Gree	0	Edit
<input type="checkbox"/>	3658798521545	Grap	0	Edit
<input type="checkbox"/>	3658798568549	Ma	0	Edit
<input type="checkbox"/>	9858798528745	Ba	0	Edit
<input type="checkbox"/>	6852798521547	Blad	0	Edit
<input type="checkbox"/>	3255898521898	Blueb	0	Edit
<input type="checkbox"/>	3652589874521	Milk	0	Edit
<input type="checkbox"/>	3265487412256	Water 1.5L	0	Edit
<input type="checkbox"/>	9321554893365	Lemon	0	Edit
<input type="checkbox"/>	1548785452321	Cranberry	0	Edit
<input type="checkbox"/>	9832012068057	Star fruit	0	Edit
<input type="checkbox"/>	0315420369875	Grape	1	Edit

Delete Product

Are you sure you want to
permanently delete this product?

1

[Yes](#) [No](#)

[Confirm](#)

[Back](#)



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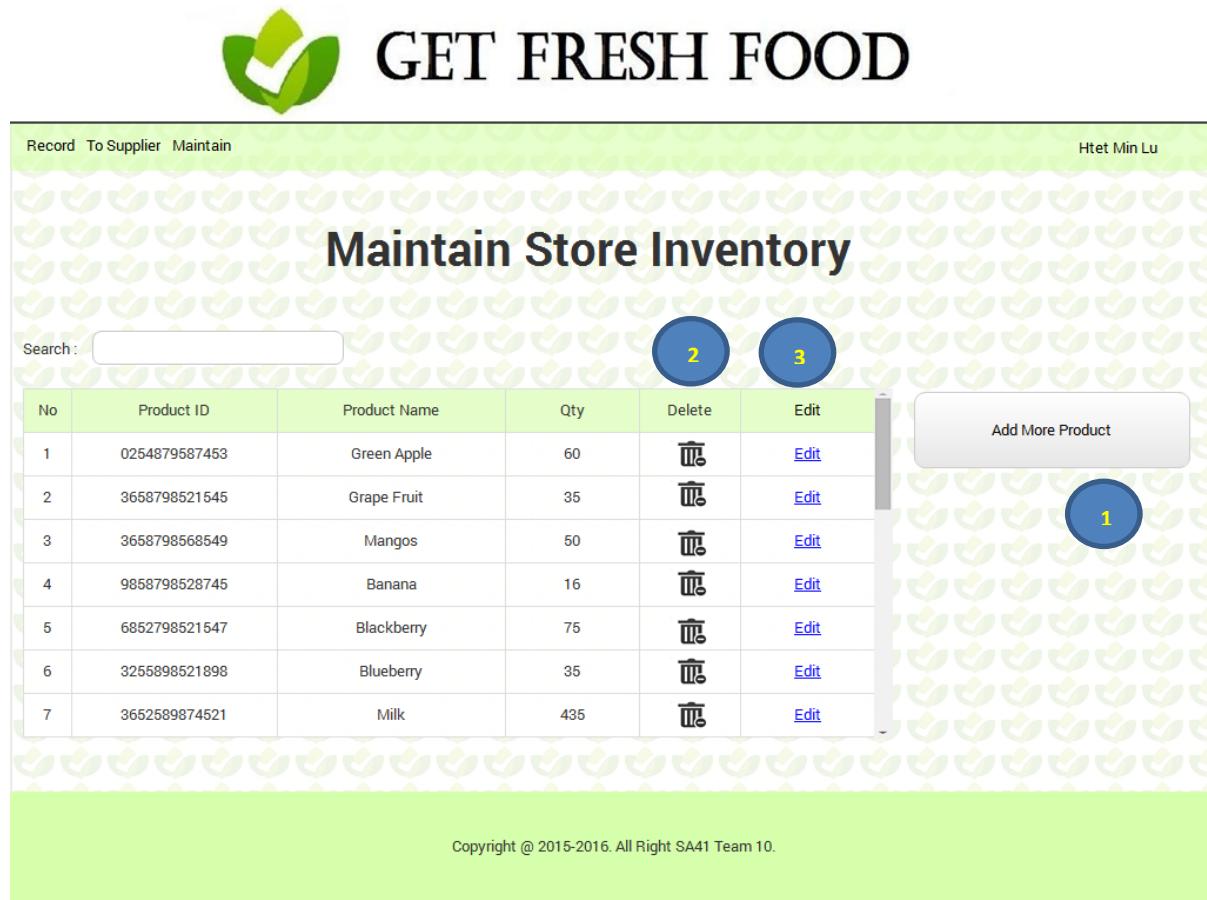
Screen 3.12

Used to confirm the deletion in the expired/damaged list, If clicked Yes, the product is deleted from replenish list, if No cancel the deletion. Redirected to Screen 3.11

1

4.4.4.0 Storemen

4.4.4 .1 Maintain Shelf Inventory – Launch Screen



Screen 3.13

1 Used to add more products to the store inventory. Redirected to Screen 3.14

2 Used to delete the selected product from store inventory, redirected to Screen 3.16

3 Used to edit the selected product of the store inventory, redirected to Screen 3.15



GET FRESH FOOD

Record To Supplier Maintain Htet Min Lu

Maintain Store Inventory

No	Product ID	Product Name	Qty	Status	Action
1	0254879587453	Green Apple	75	<input type="radio"/> In Stock <input checked="" type="radio"/> Out of Stock	Edit
2	3658798521545	Grape F	30	<input checked="" type="radio"/> In Stock <input type="radio"/> Out of Stock	Edit
3	3658798568549	Mango	435	<input type="radio"/> In Stock <input checked="" type="radio"/> Out of Stock	Edit
4	9858798528745	Banana	35	<input type="radio"/> In Stock <input checked="" type="radio"/> Out of Stock	Edit
5	6852798521547	Blackberry	75	<input type="radio"/> In Stock <input checked="" type="radio"/> Out of Stock	Edit
6	3255898521898	Blueberry	35	<input type="radio"/> In Stock <input checked="" type="radio"/> Out of Stock	Edit
7	3652689874521	Milk	435	<input type="radio"/> In Stock <input checked="" type="radio"/> Out of Stock	Edit

Search :

Add More Product

Product ID :

Qty :

Name :

Status : In Stock Out of Stock

[Add More Product](#)

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Screen 3.14

1

Used to confirm the entry in store inventory redirected to Screen 3.13

2

Used to cancel the current operation, redirected to Screen 3.13



GET FRESH FOOD

Record To Supplier Maintain Htet Min Lu

Maintain Store Inventory

Search :

No	Product ID	Product Name	Qty	Action
1	0254879587453	Green Apple	60	Edit
2	3658798521545	Grape F		Edit
3	3658798568549	Mango		Edit
4	9858798528745	Banana		Edit
5	6852798521547	Blackberry	75	Edit
6	3255898521898	Blueberry	35	Edit
7	3652689874521	Milk	435	Edit

Edit Product

Product ID :

Qty :

Name : Green Apple

Status : In Stock

1 OK Cancel 2

[Add More Product](#)

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Screen 3.15

1 Used to edit the product quantity details in store inventory, redirected to Screen 3.13

2 Used to cancel the current operation, redirected to Screen 3.13

Record To Supplier Maintain Htet Min Lu

Maintain Store Inventory

Search :

No	Product ID	Product Name	Quantity	Action
1	0254879587453	Green Apple	35	Edit
2	3658798521545	Grape	35	Edit
3	3658798568549	Mango	35	Edit
4	9858798528745	Banana	35	Edit
5	6852798521547	Blackberry	35	Edit
6	3255898521898	Blueberry	35	Edit
7	3652689874521	Milk	435	Edit

Add More Product

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Screen 3.16

Used to confirm the deletion in the store inventory. Yes, delete the product from store inventory, No cancel the deletion. Redirected to Screen 3.0

4.4.4 .2 Place Order

The screenshot shows a software application window titled "GET FRESH FOOD". At the top left is a logo consisting of three green leaves forming a checkmark shape. The top right displays the user name "Htet Min Lu". A navigation bar at the top includes links for "Record", "To Supplier", and "Maintain". A dropdown menu labeled "Supplier Name" is set to "ABD Co.Ltd".

The main area contains a table with columns: "Select", "Product ID", "Product Name", "Qty", and "Remark". There are six rows of data:

Select	Product ID	Product Name	Qty	Remark
<input type="checkbox"/>	685678578578	Kinder Chocolate	20	
<input checked="" type="checkbox"/>	442543254535	Kinder Chocolate	10	
<input type="checkbox"/>	452344235345	Mars Chocolate	20	
<input checked="" type="checkbox"/>	325445435313	NewZealand Kiwi	30	
<input type="checkbox"/>	534534354351	Shampoo	30	

Two numbered callouts point to specific elements: "2" points to the bottom-left corner of the table, and "1" points to the "Place Order" button.

At the bottom left of the screen, there is a copyright notice: "Copyright @ 2015-2016. All Right SA41 Team 10."

Screen 3.17

1 Used to place order for the selected products with their respective suppliers.

2 Single / multiple select products for placing the orders.

4.4.4 .3 Send Notification



GET FRESH FOOD

Record To Supplier Maintain

Send Notification to Supplier

	Product ID	Product Name	Status	Qty	supplier
<input type="checkbox"/>	9658752321542	Apple	Damaged	1	ABC Co.Ltd
<input type="checkbox"/>	3569875412365	Orange	Expired	2	Tiger Co.Ltd
<input type="checkbox"/>	9658700215456	Pineapple	Damaged	1	Star Co.Ltd
<input type="checkbox"/>	9587452310023	Watermelon	Expired	1	Star Co.Ltd
<input type="checkbox"/>	9854723654752	Cucumber	Damaged	3	Fresh & Health Co.Ltd
<input type="checkbox"/>	2145879563258	Rose	Damaged	1	Fresh & Health Co.Ltd
<input type="checkbox"/>	2032014520689	Jasmine	Expired	2	ABC Co.Ltd

Select All

Send Notification

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1

2

Screen 3.18

1 Used to send mail notifications for all the selected products to the appropriate supplier. Sample Mail Screen 3.23

2 Single / multi select is allowed to perform functions to send the notifications.

4.4.4 .4 Record Damaged / Expired Product

Record Damaged/Expired Product List

Select	Product ID	Product Name	Status	Qty	Edit
<input type="checkbox"/>	3569875412365	Meiji 2L Fresh Milk	Damaged	1	Edit
<input type="checkbox"/>	9658752321542	Sunfeast Multigrain Bread	Expired	20	Edit
<input type="checkbox"/>	9658700215456	Marie Gold 250mg plain	Damaged	10	Edit
<input type="checkbox"/>	9587452310023	Maggie Egg Noodles 100gm	Expired	3	Edit
<input type="checkbox"/>	5789542120321	Malaysia Tomato	Damaged	26	Edit
<input type="checkbox"/>	9854723654752	Fresh Egg 30's	Expired	10	Edit
<input type="checkbox"/>	2145879563258	Fresh Egg 20's	Damaged	9	Edit
<input type="checkbox"/>	2032014520689	Malaysia Lime	Damaged	12	Edit
<input type="checkbox"/>	9852321458452	Mineral Water 3L	Expired	13	Edit

Add More Product

1
2
3
4
5
6
7
8

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Screen 3.19

1 Used to add new product in the store inventory, redirected to Screen 3.20

2 Used to delete the selected product from store nventory, redirected to screen 3.21

3 Used to edit the store inventory redirected to Screen 3.22

4 Used to print the goods that are expired or damaged in the sore..



GET FRESH FOOD

Record To Supplier Maintain

Htet Min Lu

Record Damaged/Expired Product List

Select	Product ID	Product Name
<input type="checkbox"/>	3569875412365	Meiji 2L Fresh Milk
<input type="checkbox"/>	9658752321542	Sunfeast
<input type="checkbox"/>	9658700215456	Marie Go
<input type="checkbox"/>	9587452310023	Maggie Egg
<input type="checkbox"/>	5789542120321	Malai
<input type="checkbox"/>	9854723654752	Fresh Egg 20's
<input type="checkbox"/>	2145879563258	Fresh Egg 20's
<input type="checkbox"/>	2032014520689	Malaysia Lime
<input type="checkbox"/>	9852321458452	Mineral Water 3L

Add Damaged/Expired Product

Product ID :

Qty :

Name : Meiji 2L Fresh Milk

Status : Damaged Expired

1 OK Cancel 2

Add More Product



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Screen 3.20

Used to confirm the entry in the store inventory, redirected to Screen 3.19

1

Used to cancel the current operation, redirected to Screen 3.19

2

GET FRESH FOOD

Record To Supplier Maintain Htet Min Lu

Record Damaged/Expired Product List

Select	Product ID	Product Name	Status	Quantity	Edit
<input type="checkbox"/>	3569875412365	Meiji			Edit
<input type="checkbox"/>	9658752321542	Sunfeast			Edit
<input type="checkbox"/>	9658700215456	Marie G			Edit
<input type="checkbox"/>	9587452310023	Maggie Egg			Edit
<input type="checkbox"/>	5789542120321	Malai			Edit
<input type="checkbox"/>	9854723654752	Fres			Edit
<input type="checkbox"/>	2145879563258	Fresh Egg 20's	Damaged	9	Edit
<input type="checkbox"/>	2032014520689	Malaysia Lime	Damaged	12	Edit
<input type="checkbox"/>	9852321458452	Mineral Water 3L	Expired	13	Edit

Add More Product

1

Are you sure you want to permanently delete this product from list?

Yes No

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Screen 3.21

Used to confirm the deletion in the expired/damaged list, in the store If clicked Yes, the product is deleted from store inventory,if No cancel the deletion. Redirected to Screen 3.19



GET FRESH FOOD

Record To Supplier Maintain

Htet Min Lu

Record Damaged/Expired Product List

Select	Product ID	Product Name
<input type="checkbox"/>	3569875412365	Meiji 2L Fresh Milk
<input type="checkbox"/>	9658752321542	Sunfeast
<input type="checkbox"/>	9658700215456	Marie
<input type="checkbox"/>	9587452310023	Maggie Egg
<input type="checkbox"/>	5789542120321	Malai
<input type="checkbox"/>	9854723654752	Fresh Egg 20's
<input type="checkbox"/>	2145879563258	Fresh Egg 20's
<input type="checkbox"/>	2032014520689	Malaysia Lime
<input type="checkbox"/>	9852321458452	Mineral Water 3L

Edit Damaged/Expired Product

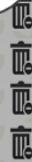
Product ID :

Qty :

Name : Meiji 2L Fresh Milk

Status : Damaged Expired

Add More Product



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Screen 3.22

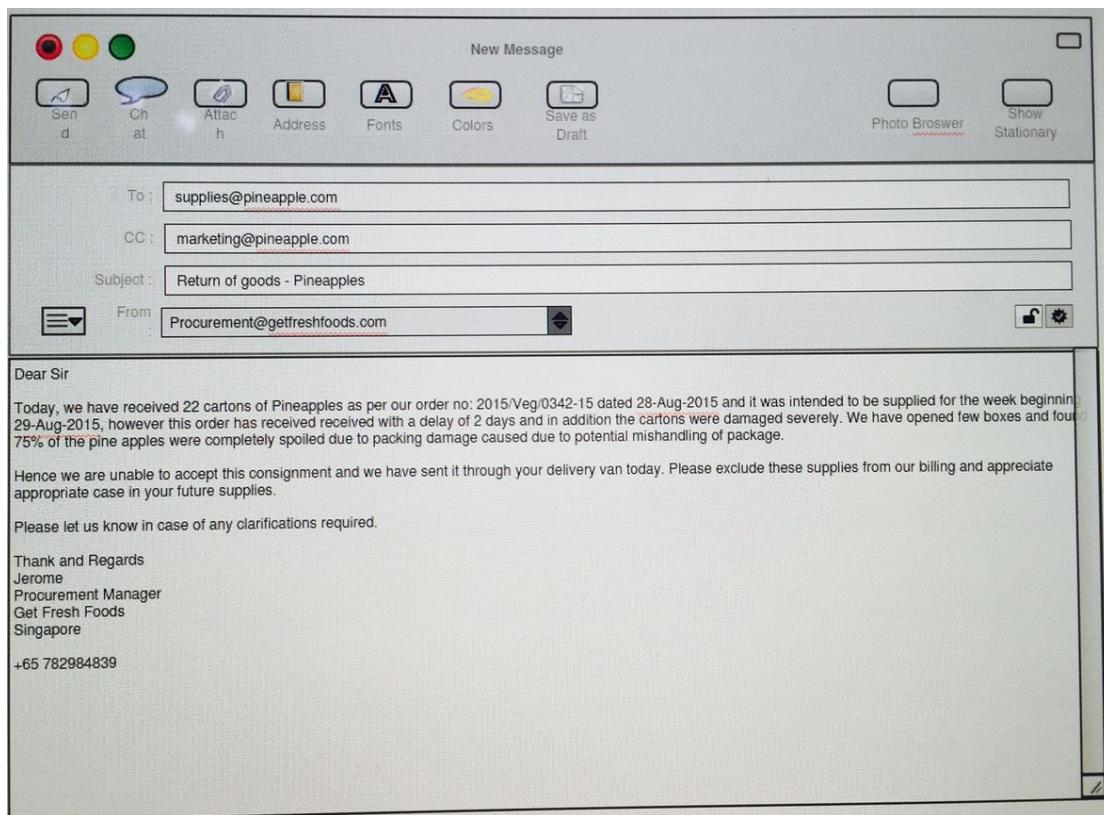
Used to confirm the changes in the store inventory, redirected to Screen 3.19

1

Used to cancel the current operation, redirected to Screen 3.19

2

4.4.4 .5 Send Notification sample



Screen 3.23

4.4.4 .6 Change Login Details

The screenshot shows a user interface for changing login details. At the top, there is a logo consisting of three green leaves and the text "GET FRESH FOOD". Below the logo, a navigation bar has links for "Generate", "Record", "Maintain", and "View". A user name "Candice" is displayed on the right side of the bar. The main area contains four input fields: "User ID" (containing "John"), "Old Password" (containing "****"), "New Password" (containing "****"), and "Confirm Password" (containing "****"). Below these fields are two blue circular buttons labeled "1" and "2", and two rectangular buttons labeled "Save" and "Cancel". At the bottom of the screen, a copyright notice reads "Copyright @ 2015-2016. All Right SA41 Team 10."

Screen 3.24

1

Used to change the password for the users. It can be used all users of the GetFreshFood. On click, the changed password is stored.

2

Used to cancel the current operation, redirected to Screen 3.0

4.4.5.0 Branch Manager

4.4.5.1 View Product - Launch Screen

The screenshot displays a product management interface titled "GET FRESH FOOD". At the top, there's a logo of a green leaf with a checkmark, followed by the text "GET FRESH FOOD". Below the logo, a navigation bar has "View Manage" on the left and "Poomi" on the right. The main area is titled "View Product List". It features a search bar labeled "Search By Product ID:" and two blue circular callout numbers: "2" near the search bar and "3" near the "Edit" column headers. A table lists seven products:

No	Product ID	Product Name	Qty	Delete	Edit
1	0254879587453	Green Apple	60		Edit
2	3658798521545	Grape Fruit	35		Edit
3	3658798568549	Mangos	50		Edit
4	9858798528745	Banana	16		Edit
5	6852798521547	Blackberry	75		Edit
6	3255898521898	Blueberry	35		Edit
7	3652589874521	Milk	435		Edit

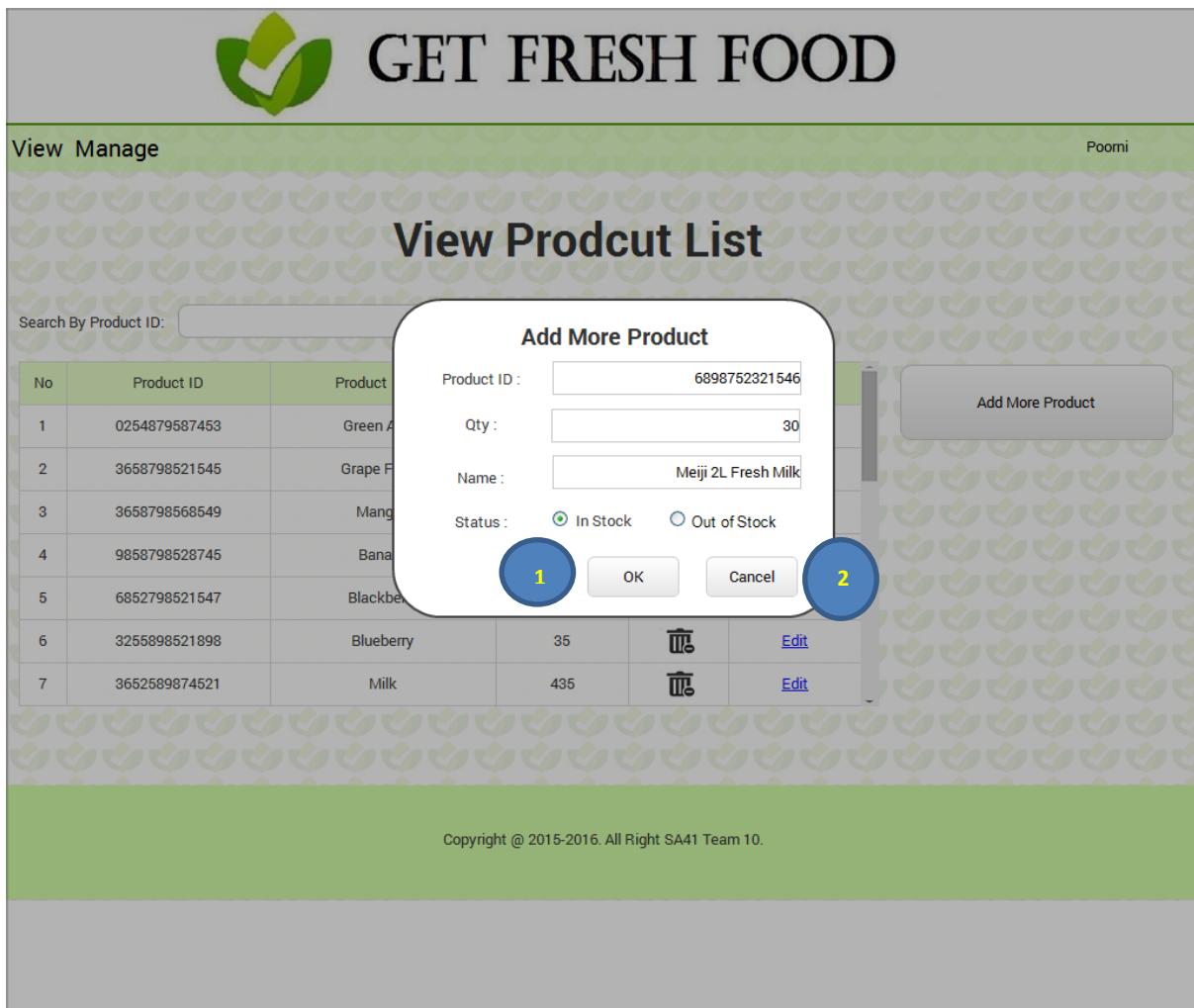
A button labeled "Add More Product" is located in the top right corner of the table area. A blue circular callout number "1" is positioned to the right of the "Add More Product" button. At the bottom of the screen, a copyright notice reads "Copyright @ 2015-2016. All Right SA41 Team 10."

Screen 3.25

1 Used to add new product store inventory, redirected to Screen 3.26

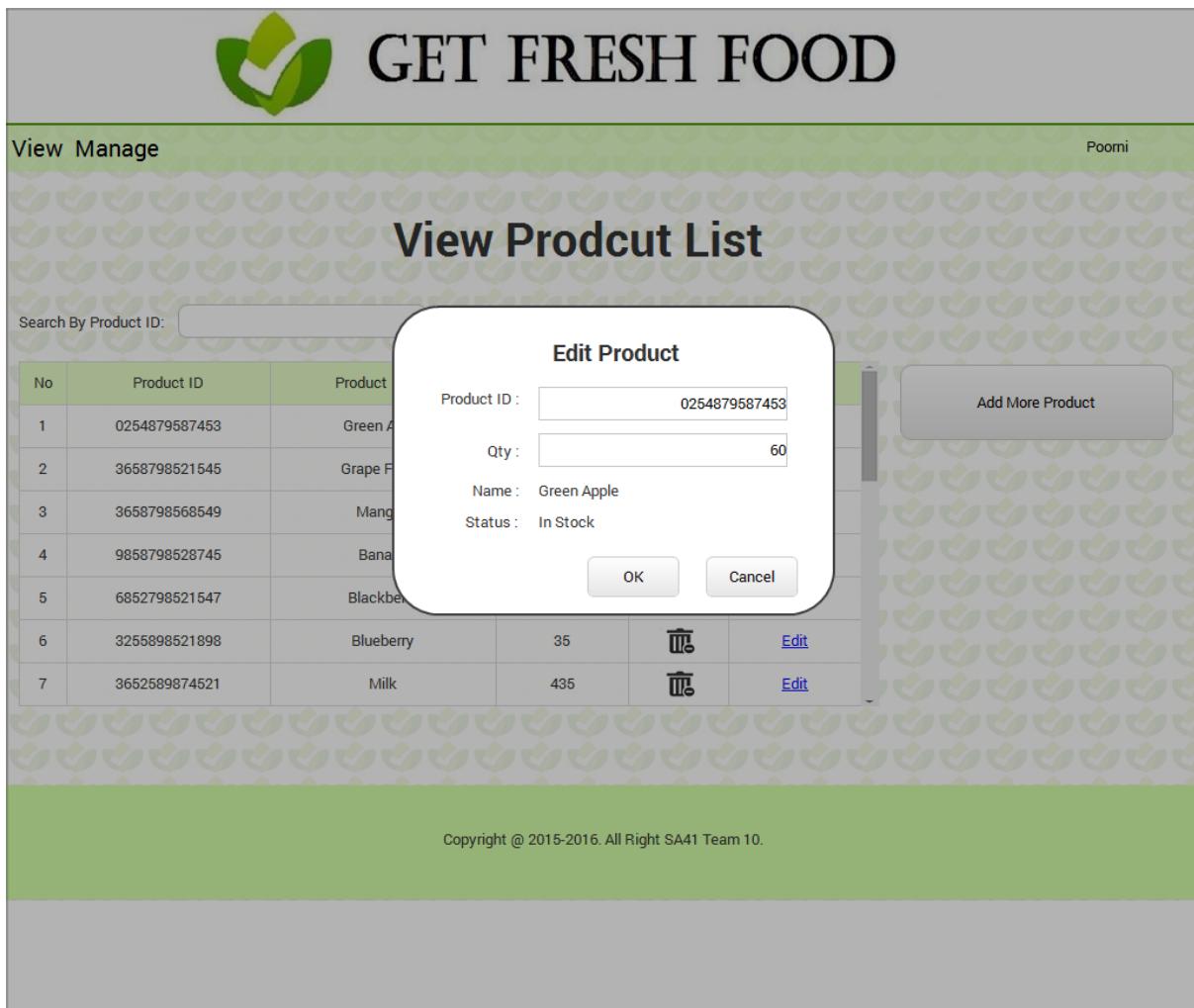
2 Used to edit the selected product, redirected to Screen 3.27

2 Used to delete the selected product from the store inventory, redirected to Screen 3.28



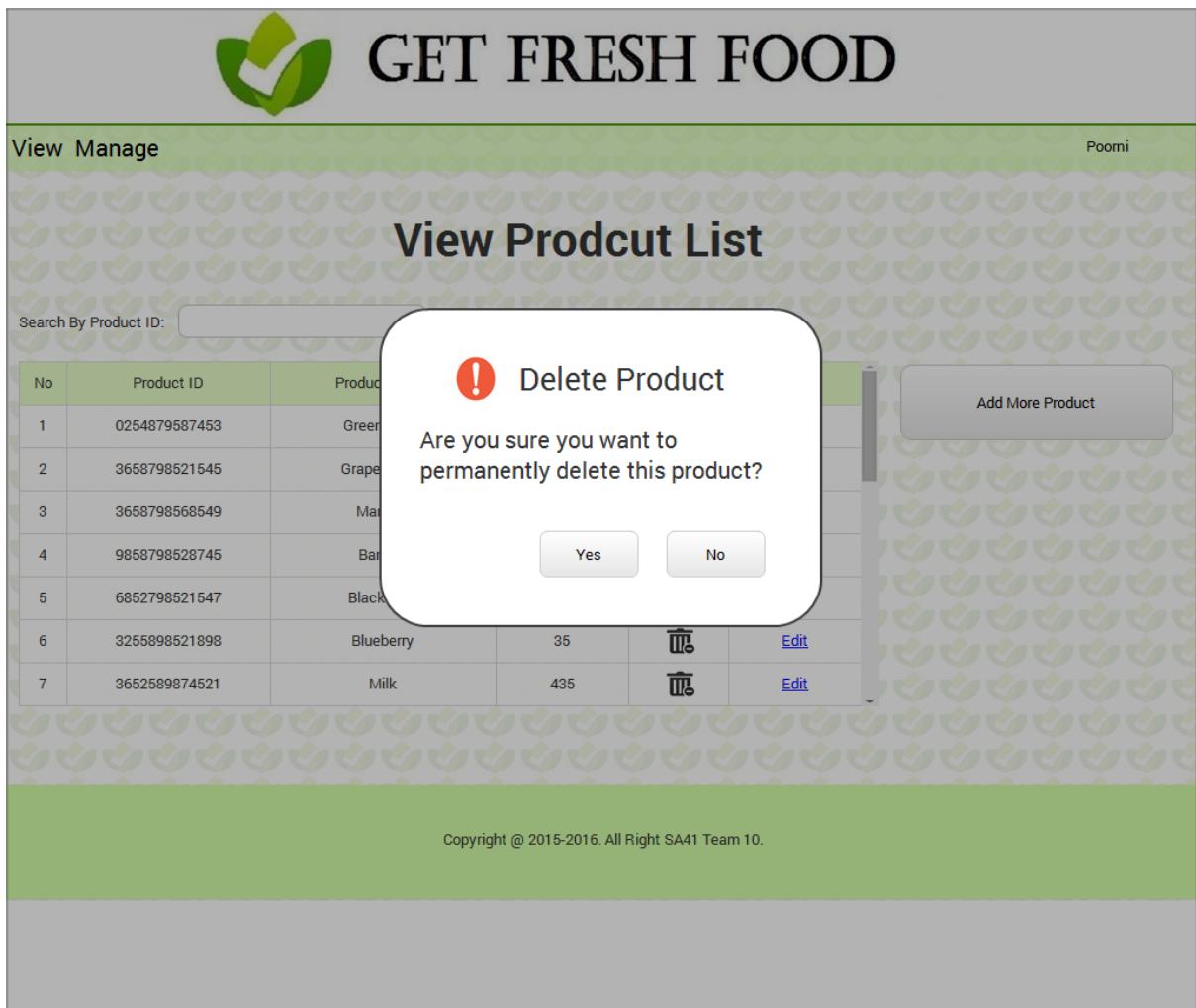
Screen 3.26

- 1 Used to confirm the entry in store inventory redirected to Screen 3.25
- 2 Used to cancel the current operation, redirected to Screen 3.25



Screen 3.27

- 1 Used to confirm the changes in the store inventory, redirected to Screen 3.25
- 2 Used to cancel the current operation, redirected to Screen 3.25



Screen 3.25

Used to confirm the deletion of the product, in the store If clicked Yes, the product is deleted from store inventory, if No cancel the deletion. Redirected to Screen 3.19

4.4.5.2 Manage Classification



GET FRESH FOOD

View Manage Manager_Name

View Price Classification Range

Fast Selling Price : And more

Moderate Selling Price : To

Slow Selling Price : And Less

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Screen 3.26

1

Used to change the classification range, which the business uses for classifying the product as Fast Selling, Moderate Selling, Low Selling . Redirected to Screen 3.27



GET FRESH FOOD

View Manage

Manager_Name

View Price Classification Range

Fast Selling Price : And more

Moderate Selling Price : To

Slow Selling Price : And Less

Done

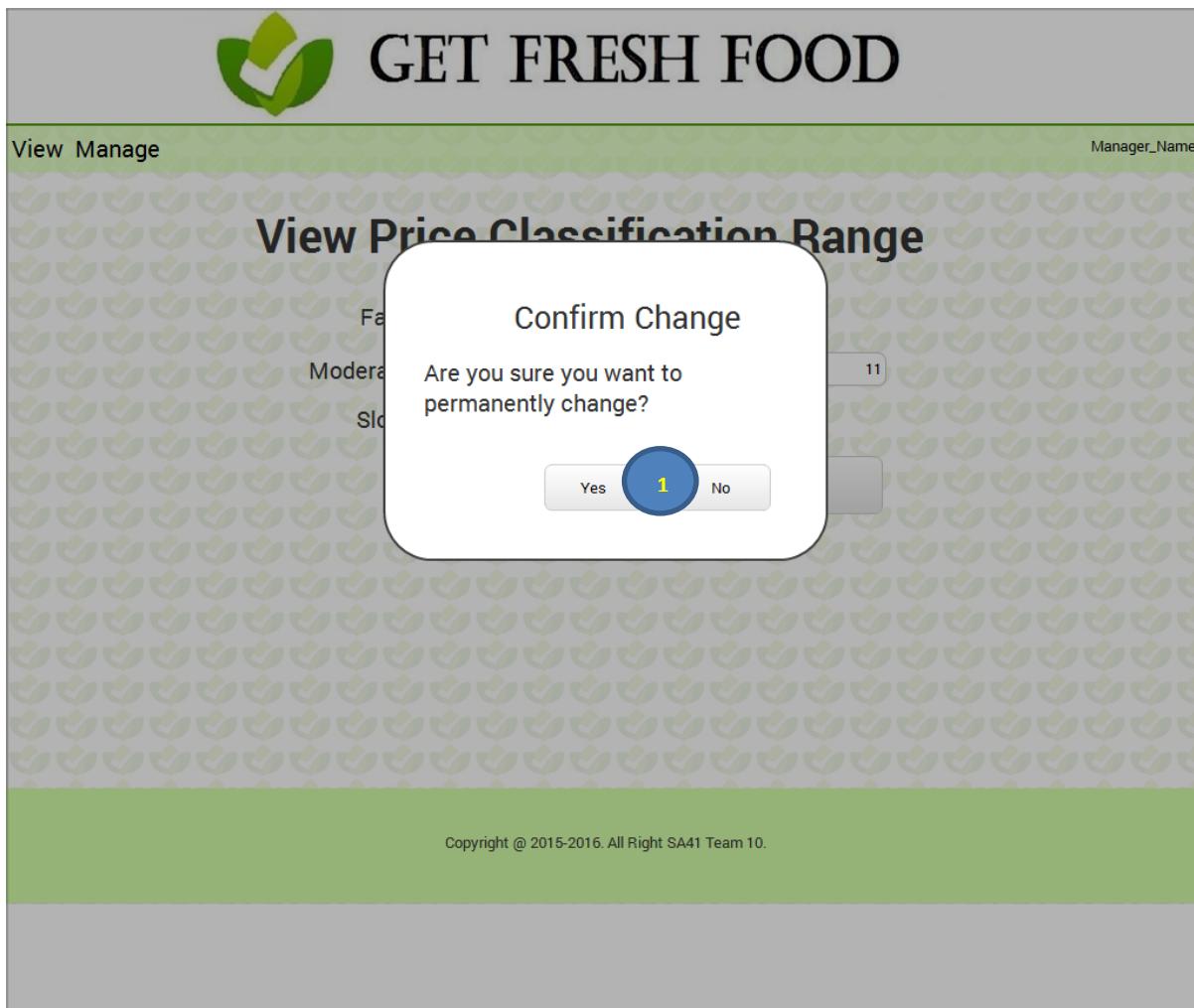
1

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Screen 3.27

1

Used to save the changes of the classification range, which the business uses for classifying the product as Fast Selling, Moderate Selling, Low Selling . Redirected to Screen 3.28



Screen 3.28

Used to save the changes of the classification range, On click yes, classification changes are saved, On click no, changes not saved. Redirected to Screen 3.27

1

4.4.5.3 Manage Category and Subcategory

View Category And Subcategory

Category Name	Subcategory Name	Delete	Edit
Fruit	Apple		Edit
Fruit	Orange		Edit
Fruit	Green Apple		Edit
Fruit	Grape		Edit
Fruit	Watermelon		Edit
Fruit	Pears		Edit
Fruit	Coconut		Edit
Fruit	Banana		Edit
Bread	Cake		Edit
Bread	Sandwich bread		Edit

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Screen 3.29

1 Used to add newcategory , redirected to Screen 3.30

2 Used to add newcategory , redirected to Screen 3.31

3 Used to edit the selected category and subcategory, redirected to Screen 3.32

4 Used to delete the selected product category and subcategory, redirected to Screen 3.33

The screenshot shows a web-based application for managing food categories. At the top, there's a logo with three green leaves and the text "GET FRESH FOOD". Below the logo, a navigation bar has "View" and "Manage" buttons. On the right side of the header, it says "Manager_Name". The main title "View Category And Subcategory" is centered above a table. The table has two columns: "Category Name" and "Subcategory Name". The data in the table is:

Category Name	Subcategory Name
Fruit	Apple
Fruit	Orange
Fruit	Green Apple
Fruit	Grape
Fruit	Watermelon
Fruit	Pears
Fruit	Coconut
Fruit	Banana
Bread	Cake
Bread	Sandwich bread

A modal dialog box titled "Add Category" is overlaid on the table. It contains a text input field labeled "Category :" and two buttons: "OK" and "Cancel". Two blue circles with yellow numbers are overlaid on the dialog: circle 1 is on the "OK" button and circle 2 is on the "Cancel" button. At the bottom of the page, there's a copyright notice: "Copyright @ 2015-2016. All Right SA41 Team 10."

Screen 3.30

Used to confirm the entry of category, redirected to Screen 3.29

Used to cancel the current operation, redirected to Screen 3.29

The screenshot shows a web-based application for managing food categories and subcategories. At the top, there's a logo with three green leaves and the text "GET FRESH FOOD". Below the logo, a navigation bar has "View" and "Manage" buttons. On the right side of the header, there's a placeholder "Manager_Name". The main content area is titled "View Category And Subcategory". A table lists categories and subcategories:

Category Name	Subcategory Name
Fruit	Apple
Fruit	Orange
Fruit	Green Apple
Fruit	Grape
Fruit	Watermelon
Fruit	Pears
Fruit	Coconut
Fruit	Banana
Bread	Cake
Bread	Sandwich bread

A modal dialog box is centered over the table, titled "Add Subcategory". It contains two input fields: "Category :" with a dropdown menu set to "Fruit" and "Subcategory :" with an input field containing "Apple". Below the input fields are two buttons: "OK" and "Cancel". Two blue circles with yellow numbers are overlaid on the dialog: circle 1 is positioned over the "OK" button, and circle 2 is positioned over the "Cancel" button.

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Screen 3.31

Used to confirm the entry of sub category, redirected to Screen 3.29

Used to cancel the current operation, redirected to Screen 3.29

The screenshot shows a web-based application for managing food categories and subcategories. At the top, there is a logo consisting of three green leaves and the text "GET FRESH FOOD". Below the logo, a navigation bar has "View" and "Manage" buttons. On the right side of the header, there is a placeholder "Manager_Name". The main content area is titled "View Category And Subcategory". A table lists categories and subcategories:

Category Name	Subcategory Name
Fruit	Apple
Fruit	Orange
Fruit	Green Apple
Fruit	Grape
Fruit	Watermelon
Fruit	Pears
Fruit	Coconut
Fruit	Banana
Bread	Cake
Bread	Sandwich bread

An "Edit Subcategory" dialog box is overlaid on the table. It contains fields for "Category" (set to "Fruit") and "Subcategory" (set to "Apple"). There are two buttons at the bottom: "OK" and "Cancel". Two blue circles with yellow numbers are overlaid on the dialog: circle 1 is on the "OK" button and circle 2 is on the "Cancel" button.

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Screen 3.32

Used to confirm the changes in the category list, redirected to Screen 3.29

1

Used to cancel the current operation, redirected to Screen 3.29

2

The screenshot shows a web-based application for managing food categories and subcategories. At the top, there's a logo with two green leaves and the text "GET FRESH FOOD". Below the logo, a navigation bar has "View" and "Manage" buttons. On the right side of the header, it says "Manager_Name". The main title "View Category And Subcategory" is centered above a table. The table has columns for "Category Name" and "Subcategory Name". The data in the table is:

Category Name	Subcategory Name
Fruit	Apple
Fruit	Orange
Fruit	Green Apple
Fruit	Grape
Fruit	Watermelon
Fruit	Pears
Fruit	Coconut
Fruit	Banana
Bread	Cake
Bread	Sandwich bread

A modal dialog box is overlaid on the table. It contains a red exclamation mark icon, the text "Delete Subcategory", and the question "Are you sure you want to permanently delete this subcategory?". There are two buttons at the bottom: "Yes" and "No". A blue circle with the number "1" is positioned over the "Yes" button.

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Screen 3.33

1

Used to confirm the deletion of subcategory , If clicked Yes, the the subcategory deleted,if No cancel the deletion. Redirected to Screen 3.29

4.4.5.4 Manage User Account

User Accounts

Select	User ID	User Name	Position	Delete	Edit
<input type="checkbox"/>	000001321	Alex	branch manager		Edit
<input type="checkbox"/>	000001354	Ben	cashier		Edit
<input type="checkbox"/>	000003104	Taylor	cashier		Edit
<input type="checkbox"/>	000004323	Selena	cashier		Edit
<input type="checkbox"/>	000006211	Nick	cashier		Edit
<input type="checkbox"/>	000002234	Justin	store man		Edit
<input type="checkbox"/>	000003321	Pan	store man		Edit
<input type="checkbox"/>	000001015	Calvin	promoter		Edit

Select All

Add User

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Screen 3.34

1

Used to add new user to use the GetFreshFood , redirected to Screen 3.35

2

Used to edit existing user details , redirected to Screen 3.36

3

Used to delete the selected user, redirected to Screen 3.37

4

Single selection / multi select can be chosen for deletion of the user



GET FRESH FOOD

View Manage Manager_Name

Select	User ID	User Name
<input type="checkbox"/>	000001321	Alex
<input type="checkbox"/>	000001354	Beth
<input type="checkbox"/>	000003104	Tay
<input type="checkbox"/>	000004323	Selena
<input type="checkbox"/>	000006211	Nicole
<input type="checkbox"/>	000002234	Jus
<input type="checkbox"/>	000003321	Peter
<input type="checkbox"/>	000001015	Callum

Add User

User ID : 000001321
User Name :
Gender : Male Female
Date of Birth :
Address :
Phone No :
Position :

1 OK Cancel 2

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Screen 3.35

1

Used to add new user details to the table , redirected to Screen 3.34

2

Used to cancel the current operation , redirected to Screen 3.34



GET FRESH FOOD

View Manage Manager_Name

Select	User ID	User Name
<input type="checkbox"/>	000001321	Alex
<input type="checkbox"/>	000001354	Beth
<input type="checkbox"/>	000003104	Taylor
<input type="checkbox"/>	000004323	Selina
<input type="checkbox"/>	000006211	Nicole
<input type="checkbox"/>	000002234	Jules
<input type="checkbox"/>	000003321	Parker
<input type="checkbox"/>	000001015	Callum

Edit User

User ID : 000001321

User Name :

Gender : Male Female

Date of Birth :

Address :

Phone No :

Position :

Add User

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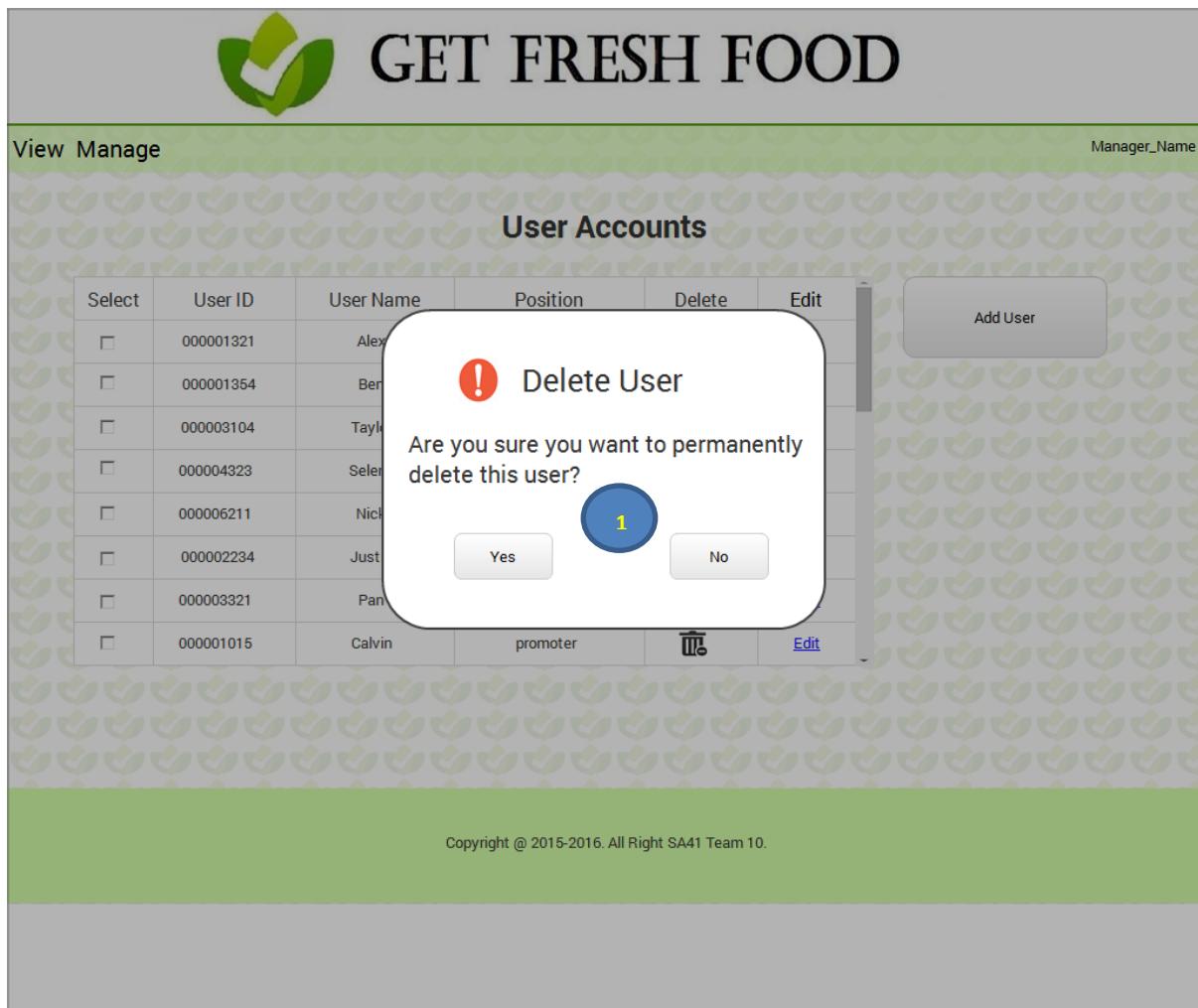
Screen 3.36

1

Used to update the changes of the existing user details to the table , redirected to Screen 3.34

2

Used to cancel the current operation , redirected to Screen 3.34



Screen 3.37

1

Used to confirm the deletion of user , If clicked Yes, the user deleted,if No cancel the deletion. Redirected to Screen 3.34

4.4.5.5 View Product Form

 GET FRESH FOOD

View Manage Manager_Name

View Product Form

Product Barcode	 10012345678902
Product Id	P00081
Product Name	Cocacola Can 355mL
Classification	Fast Selling
Supplier	Ram Cola Limited
Unit Price	0.80\$
Current Stock	100
Category	Drinks
SubCategory	Soft Drink


Coca Cola 355ml

Description
This is a shelf life of two years. It is supplied from Thailand



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Screen 3.38

Used to print the product form.

4.4.6.0 Owner

4.4.6.1 Manage Supplier

View Manage

View Supplier List

Search by Supplier ID :

Search By Contact Name :

Supplier No	Supplier Name	Contact Name	Phone Number	Email	Company Address	Country	Status
S0100	ABC Co.Ltd	Mr. Zhaung Chan	+6590738273	zhaungchan@abc.com	Bishan Street 11 12#64 789393	Singapore	Active
S0101	Tiger Co.Ltd	Mr. Ming Xiao	+6580383838	ming@gmail.com	Kent Ridge 10 Ave 2#10 9202920	Singapore	Active
S0102	Star Co.Ltd	Ms. Han Meimei	+6590292929	han@gmail.com	Cho Chu Khan 2 Ave 3#29 383828	Singapore	Unactive
S0103	Fresh & Health Co.Ltd	Mr. Lei Li	+6589817283	lei@gmail.com	City Hall Street 10 5#12 928293	Singapore	Active

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Screen 3.39

1

Used to print the supplier list.

2

Can search by supplier id or supplier name.

4.4.6.0 Owner

4.4.6.2 Manage Product Price

View Manage

Owner_Name

View Product List

Search By Product ID:

Add More Product

No	Product ID	Product Name	Price	Qty	Delete	Edit
1	0254879587453	Green Apple	2.30	60		Edit
2	3658798521545	Grape Fruit	1.30	35		Edit
3	3658798568549	Mangos	6.10	50		Edit
4	9858798528745	Banana	9	16		Edit
5	6852798521547	Blackberry	1.30	75		Edit
6	3255898521898	Blueberry	1.90	35		Edit
7	3652589874521	Milk	2.00	435		Edit

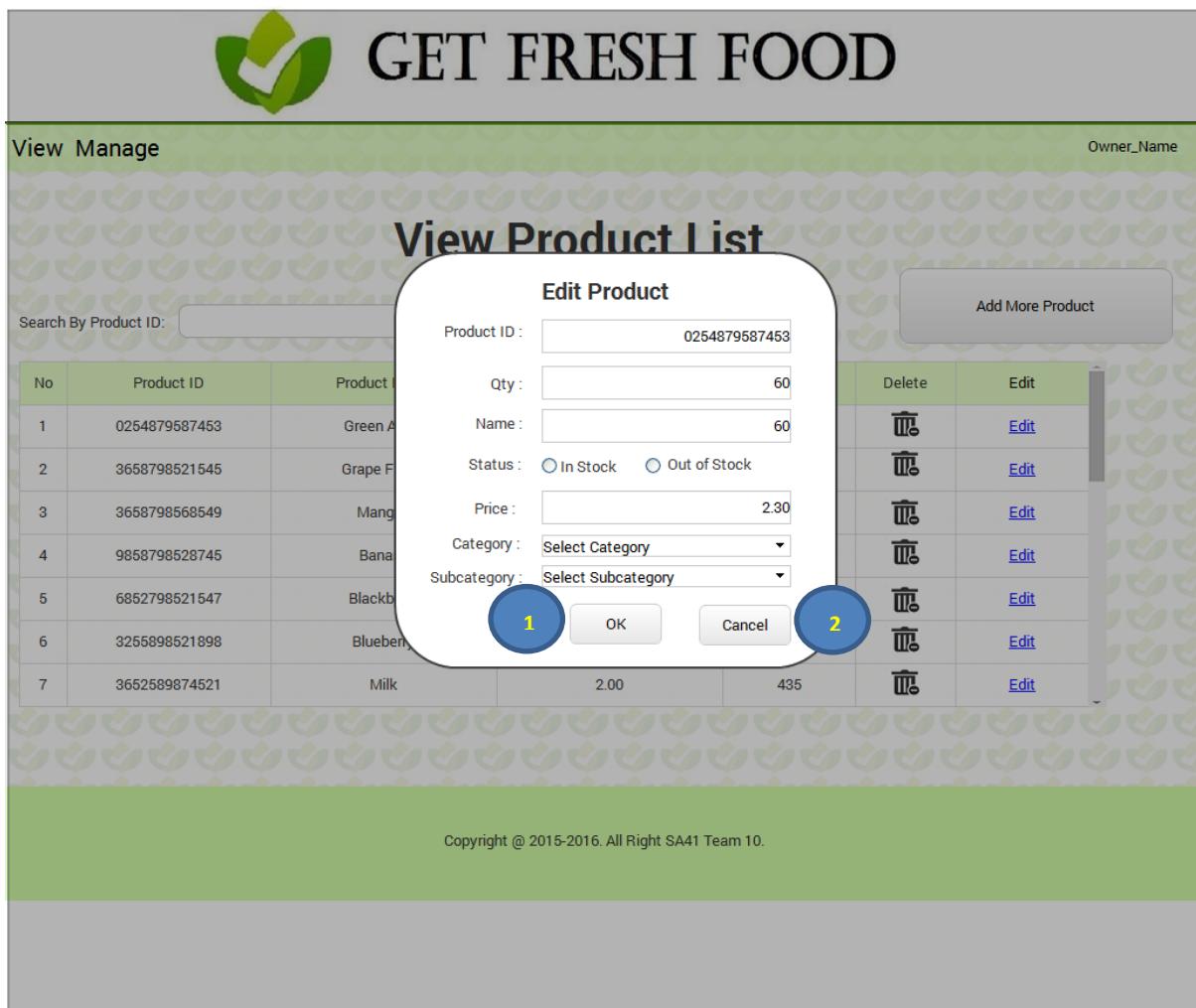
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Screen 3.39

1 Used to add new product to the store inventory.

2 Can edit the price of the product., redirected to Screen 3.40

3 Used to delete the product details .



Screen 3.40

Used to update new price of the product, redirected to Screen 3.39

1

Used to cancel the current operation , redirected to screen 3.40

2

4.4.6.2 Loss of Sales Report



GET FRESH FOOD

Loss of Sales Report

No	Date	Cashier Id	Actual Sales (\$\$)	Cash in Hand (\$\$)	Discrepancy Amt (\$\$)
1	04/05/2015	C00032	15000.30	14990.30	10.00
2	24/05/2015	C00001	12030.00	11930.00	100.00
3	30/05/2015	C00001	16105.50	16100.00	5.50
Total Loss					115.50

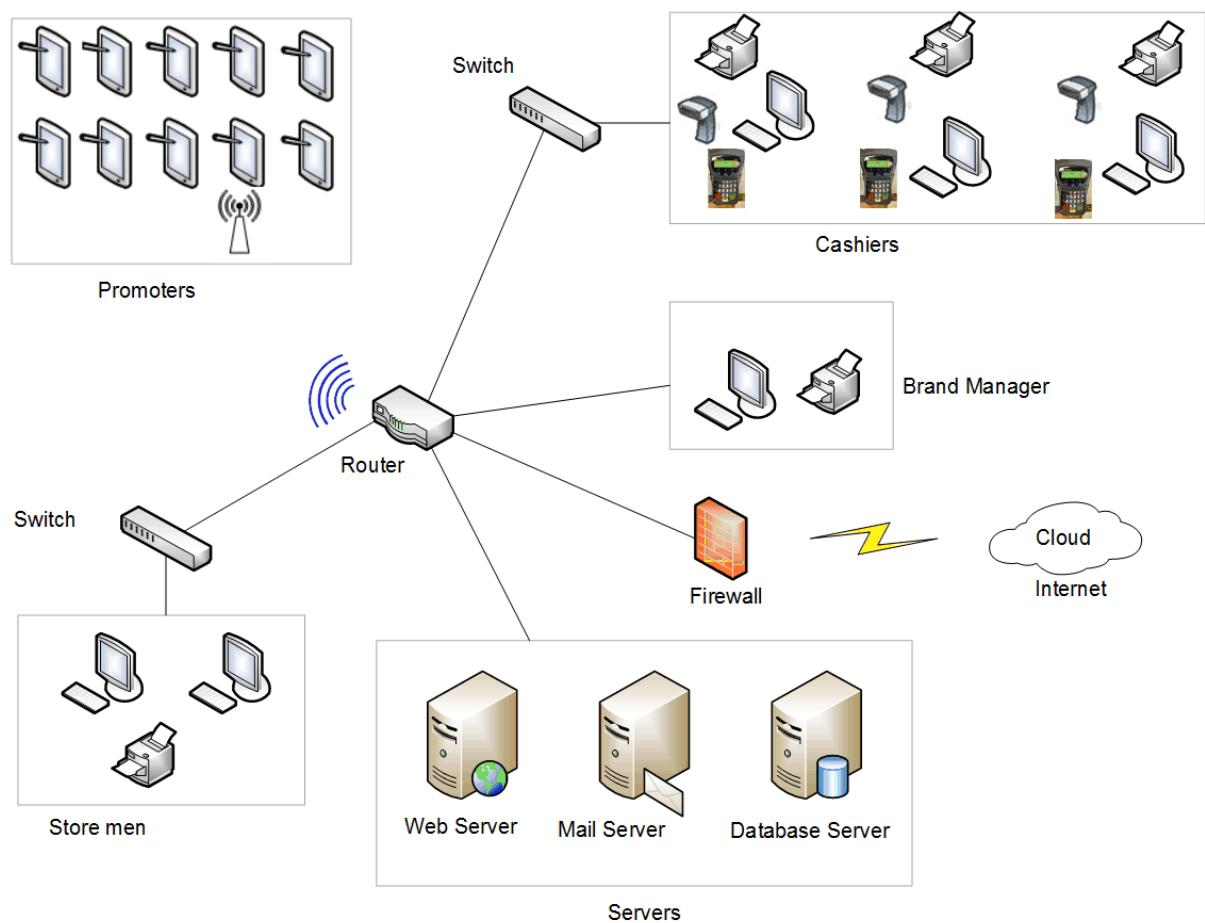
Prepared by Cashier **C00001**

Signature

Printed Date 31-Aug-15

5.0 Non Functional Requirement

5.1 System Architecture



5.1.0 Description

5.1.1 Receipt Printer



Product Name	Receipt printer DEP-50
Purpose	- Give receipts to customers - Keep receipts from cashiers
Quantity	- 3
User	- Cashiers

5.1.2 Receipt Printer



Product Name	HP LaserJet Pro P1108 Printer
Purpose	- Take out reports
Quantity	- 2
User	- Branch Manager, Store men

5.1.3 Router



Product Name	Cisco WAP4400N Wireless-N
Purpose	- Connect internal LAN and internet
Quantity	- 2
User	NIL

5.1.4 Switch



Product Name	WS-C2960S-48TS-L
Purpose	- Connect computer , printer and routers
Quantity	- 2
User	NIL

5.1.5 Tablet



Product Name	HP Pro Sale 8
Purpose	- To maintain data when checking the items
Quantity	- 10
User	- Promoters

5.1.6 Personal Computer



Product Name	HP 3500 Pro
Purpose	- To input and update data - To view reports
Quantity	- 6
User	- Branch Manager, Cashiers, Store men

5.1.7 Barcode Reader



Product Name	Data logic PD8330 Barcode Scanner
Purpose	- To read and identify items which are bought by customers.
Quantity	- 3
User	- Cashier

5.1.8 Server



Product Name	Dell PowerEdge R210 II server
Purpose	- To store data, website and send email
Quantity	- 3
User	NIL

5.1.9 Firewall



Product Name	Dell Sonicwall
Purpose	- To protect and filter data and check network traffic
Quantity	- 1
User	NIL

5.2 System Performance Requirements

5.2.1 User Volume Table

The table below shows the list of user groups who will use the system.

User Group	Country/Location/Count	Remarks
Branch Manager	Singapore/Office /01	Branch Manager is stationed at the office and needs to use the system frequently.
Promoter	Singapore/Supermarket/10 per shift	Promoters are in charge of a set of products and designated shelves and in the shift sometimes need to access the system.
Cashier	Singapore/ Cash Counter/03 per shift	Cashiers are stationed at the cash counter and in the shift need to use the system every day.
Store Man	Singapore/Storage/02 per shift	Store men are stationed at the storage and in the shift need to use the system every day.
Owner	Singapore/Office/01	Owner is not office bounded and sometimes needs to use the system.

Note: When it comes to user volume requirement, the number of user is the number of concurrent users. In GetFreshFood Supermarket, there are two shifts, 7am to 3pm and 3pm to 10pm. And here assumes that every staff worked on the same floor-level 1 of the GetFreshFood Supermarket.

5.2.2 Business Txn Volume Table

Business Transaction	Business criticality	No. of User	Transaction information	Concurrently Important Activities
Log in	C	32***	7/week/staff	
Log out	C	32	7/week/staff	
Change Login Details	L	32	1/week/ staff	
Generate Label	M	20	2/week/ staff	
Record Damaged/Expired goods	M	20	4/week/staff	
Maintain Shelf Inventory	C	20	2times/day/staff	
Manage Supplier	C	2	3/week/staff	
Manage Product Price	C	1	3times/month	
Notify supplier	C	4	2/month/staff	
Maintain Store Inventory	C	4	1/week/staff	
Place Order	C	4	3/week/staff	
Do Billing	C	6	350billing/day*	350/15=23/hr**
Generate End-of-Day sale	C	6	6/shift	
Maintain user Account	M	1	1/month	
Check Sales Report	C	2	1/shift	
Manage Product	C	1	4times/month/staff	

*Do billing=200/1st-shift+150/2nd-shift

**supermarket has been operating for 15hrs per day

***6 cashier+20 promoter+4 storeman+1 branch manager+1 owner=32 users

C->critical, m->moderate, L->low

5.2.3 Data Volume Table

The table below shows the significant data stored and retain for each business entity when the system starts operating. Data volume requirement will affect the database server configuration.

Entity Class	Source Document	Retention Period	Target Volume
Product Information	Product Form	8 years. Need to keep for 8 years.	The supermarket has 80,000 kinds of products now and we assume that each product has a product form. And we assume that each year the supermarket will take in 1000 new products. Now: 80,000 product Information 8yr: $(80,000+1000) \times 8 = 648,000$ product Information
User Profile	User account form	5 years	Assume growth of employee is 12.5% and this system is only used for internal workers. Now: 32 user account 5yr: $32 + 4 \times 5 = 52$ user account
Supplier Profile	Supplier form	8 years	Assumption 1: Because some of the products are from the same supplier, we assume that average 2 product has 1 supplier. Assumption 2: The supermarket has 80,000 kinds of products now. Assumption 3: Every year the growth of new products of the supermarket is 3%. Now: 40,000 supplier forms 8yr: $40,000 \times 3\% \times 8 + 40,000 = 49,600$
Order	Order form	8 year	Assume every year each product needs to be ordered for 6 times. 1yr: $80,000 \times 6 = 48,000$ order form 8yr: $48,000 \times 8 = 384,000$ order form
Cash Register	End-of-Day sales form	8 years	End-of-Day sales form each shift: 1 End-of-Day sales form every day: 2 1yr: $2 \times 365 = 730$ End-of-Day sales form

			8yr: $730 \times 8 = 5,840$ End-of-Day sales form
Billing Details	Receipt	3 years	<p>Assume 700 customers will place order each day in this supermarket and the annual growth of the customer is 10%.</p> <p>1yr: $700 \times 365 = 255,500$</p> <p>3yr: $255,500(1+10\%)^3 = 281,050$</p>
Classification Details	Product Form	4 years	<p>1 week: 1 Classification Details</p> <p>1yr: $52 \times 1 = 52$</p> <p>4 yr: $52 \times 4 = 208$</p>
Price Change	Price Form	4 years	<p>Assume the owner will change the price of some certain products twice every month.</p> <p>1yr: $2 \times 12 = 24$ Price Change form</p> <p>4yr: $24 \times 4 = 96$ Price Change form</p>
Shelf Inventory	Shelf form	3 years	<p>Assume every shift of the promoter will record a shelf inventory.</p> <p>1 day: 2 Shelf Inventory record</p> <p>1yr: $2 \times 365 = 730$ Shelf Inventory record</p> <p>3yr: $730 \times 3 = 2,190$ Shelf Inventory record</p>
Store Inventory	Store form	8 years	<p>The supermarket has 80,000 kinds of products now. Assume every product needs a store inventory record.</p> <p>1yr: 80,000 store inventory records</p> <p>8yr: $648,000$ store inventory records</p>
Category	Product Form	8 years	<p>Assume every 2 year there will be 2 category added.</p> <p>Now: 10</p> <p>8yr: 18</p>
Subcategory	Product Form	8 years	<p>The supermarket has 80,000 kinds of products now.</p> <p>Subcategory: $80,000 / 10 = 8,000$</p> <p>8yr: $640,000 / 18 = 35,556$</p>

5.2.4 Data Access Profile

Different actors have different access to the system database. The table below from data point of view shows the ability of various actors to create, update, read and delete information of each entity classes.

User Role(actor)\Data(entity class)	Cashier	Promoter	Store Man	Branch Manager	Owner
Product Information	r	r	r	c,u,r,d	c,u,r,d
User Profile	r,u	r,u	r,u	c,r,d	c,r,d
Supplier Profile			r,u	c, r,d	c,r,d
Order		r	c,u,r,d	r	r
Cash Register	c,u,r,d	r	r	r	r
Billing Details	c,u,r,d	r		r	r
Classification Details		r	r	c,u,r,d	c,u,r,d
Price Change	r	r	r	r	c,u,r,d
Shelf Inventory		c,u,r,d		r	r
Store Inventory	r	r	c,u,r,d	r	r
Category	r	r	c,u,r,d	r	r
Subcategory	r	r	c,u,r,d	r	r

c: Create u: Update r: Read d: Delete

5.2.4 Use Case Access Profile

The table below shows that different system actors process various use cases and get different access to the functions of the system. These access rights will be automatically allocated when an account is created in the system as the following user role.

User Role(Actor)\ Biz Txn(use case)	Cashier	Promoter	Store Man	Branch Manager	Owner
Log In	×	×	×	×	×
Log Out	×	×	×	×	×
Change Login Details	×	×	×	×	×
Do Billing	×				
Generate End-of-Day sales	×				
Generate Label		×			
Record Damage/Expired Goods		×			
Maintain Shelf Inventory		×			
Notify Suppliers			×		
Place Order			×		
Maintain Store Inventory			×		
Manage Product				× (main user*)	×
Check Sales Report				× (main user*)	×
Manage User Account				× (main user*)	×
Manage Supplier				× (main user*)	×
Manage Product Price					×

Note: *Main user – highest ranking users

The End