

Report on **“Super Market Management System”**

SUBMITTED TO
Darshan University

In Partial Fulfillment of Requirements for the Awards of
Master of Computer Application

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March – 2024

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This is to certify that **Mansi Renishbhai Gami (22030501020)**, student of **Master of Computer Application** from Darshan University - Rajkot, has satisfactorily completed his project work on “**Super Market Management System**” during period from 04/12/2023 to 17/03/2024.

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EXAMINER'S CERTIFICATE OF APPROVAL

This is to certify that draft report entitled “**Super Market Management System**”

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In partial fulfillment for the award of the “**Master of Computer Application**” of the Darshan University-Rajkot is here by approved.

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March – 2024

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22030501020

4th MCA

Place: DICA, Rajkot

ABSTRACT

This Project is based on “**Super Market Management System**”. This supermarket management system has realized the transmission and control of large goods, to facilitate the management and decision of sales, and reduce a big burden for supermarkets and supermarket managers. It also can help to improve the work efficiency of supermarkets. the supermarket management system is very convenient for managing, inputting, outputting, and finding the data to make the messy supermarket data specific, visualizations, rationalization. In the aspect of the software, the supermarket management system uses PHP language and MySQL as the background database. In the aspect of software, various configurations in a computer including input and output capacity, internal memory and external memory capacity can meet the requirements of users.

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❖ Introduction

1.1 Purpose

The purpose of this project is to provide a friendly environment to maintain the details of products and users. The main purpose of this project is to maintain easy circulation system using computers and to provide different reports. This project describes the hardware and software interface requirements using ER diagrams and UML diagrams.

1.2 Document Conventions

- Context: A broad level diagram of the project showing a basic overview.
- Use Case: summarizes some of the relationships between Cases, user, and systems.
- UML: Unified Modeling Language
- SMMS: Super Market Management System
- Cataloguing: is a module for managing the product details.

1.3 Intended Audience

The intended audiences for this document are:

- Software Project Managers
- Software Engineers
- Software Developers
- Super Market Organizers

1.4 Project Scope

The scope of a Supermarket Management System encompasses inventory management, point of sale operations, employee management, customer relationship management, and security features, its primary aim is to optimize supermarket operations, enhance customer experience, and maximize efficiency and profitability.

❖ Overall Description

2.1 Perspective

The Supermarket Management System focuses on efficiently managing product-related aspects such as inventory control, stock management, product pricing, categorization, and tracking product movement.

2.2 Features

- Admin Login and User Login.
- Admin is the only person who can View, Modify, and Insert and Delete the Record.
- User can see the products and purchase the product.

The features that are available to the Admin are:

- Add new product.
- Can view the list of product stock available in each category.
- Edit the detail of the Products.
- View the User details and Bill detail.

The features that are available to the User are:

- Can view the different categories of products.
- Can view the product price.
- User can Add product to the cart.
- User can send the feedback.

2.3 User Classes and Characteristics

There are various kinds of user visits the product for different reason.

- **ADMIN:** The one who manages the store and its database and updating the items records or user records.
- **ADMIN DATABASE:** You can say this as an assistant Admin.

2.4 Design and Implementation Constraints

Only admin can manage resources like item price, user details, billing details etc. More over the user must have individual ID for getting user information.

❖ System Feature

3.1 Function Requirement

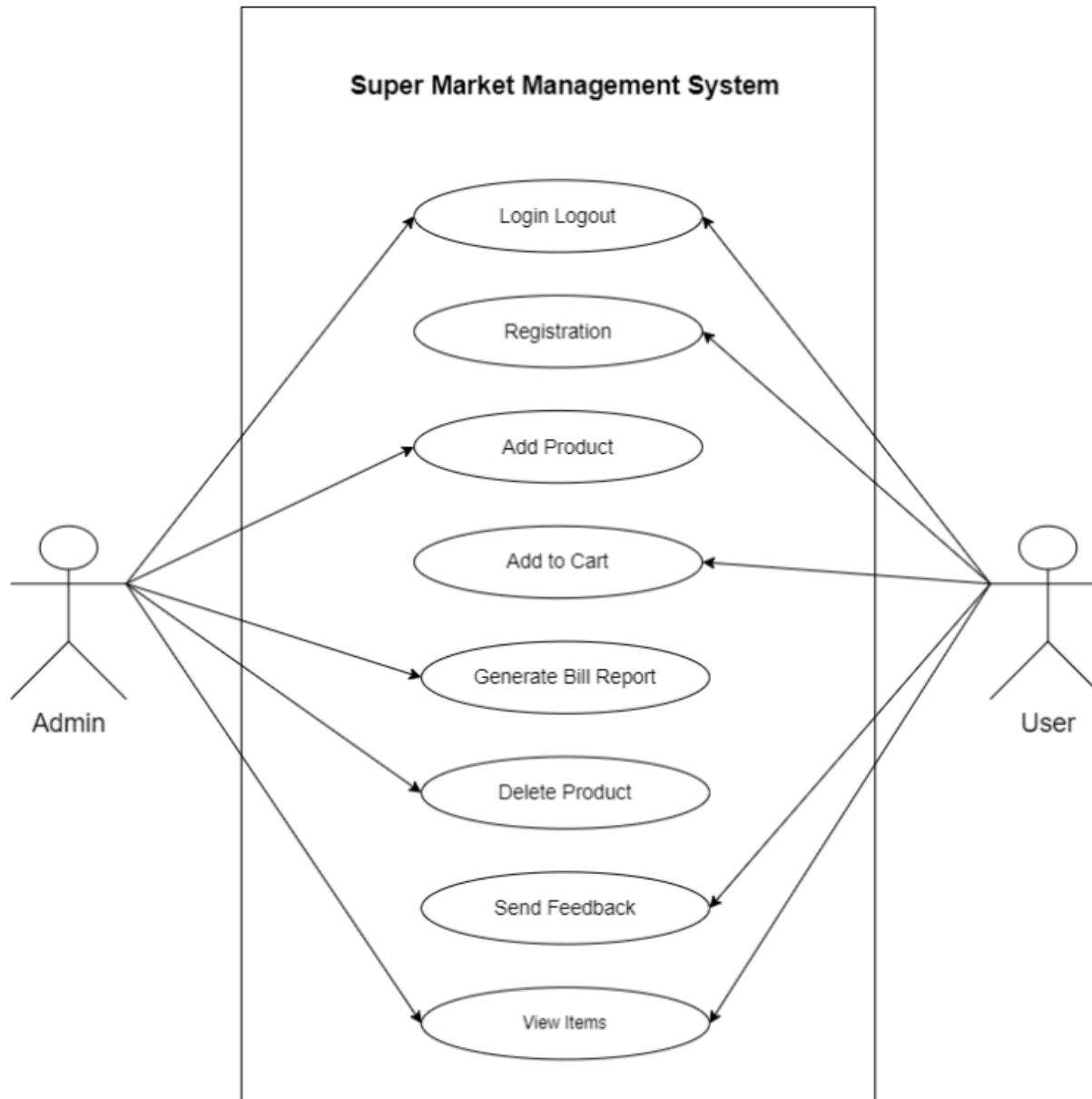
Admin

- Login
 - a. Login and manage the system.
- Update Item
 - a. Update item price in system.
- Delete Item
 - a. Delete item in system.
- Add Item
 - a. Add new item in system.

User

- Login
 - a. Login and manages the website.
- Registration
 - a. New user registration on the website.
- View Items
 - a. View the item and price.
- Purchase item
 - a. Purchase the item and add to the cart.
- Payment
 - a. Pay money and clear bill.
- Send feedback
 - a. User send the feedback.

3.2 Usage Diagram



❖ External Interface Requirements

4.1 Admin Interface

➤ Login Screen

Admin Login

- Username
- Password

➤ Add New Catalogue

Add New Catalogue

- Name
- Image

➤ Add New Sub-Catalogue

Add New Sub-Catalogue

- Name
- Image

4.2 User Interface

➤ Login Screen

User Login

- Username
- Password

➤ Registration

User Registration

- Username
- Password
- Confirm Password
- Address
- City
- State
- Email Id
- Phone No.

➤ Bill details

Bill Details

- First Name
- Last Name
- Address
- City
- Phone
- Email

➤ Feedback details

Send Feedback

- Name
- City
- Email
- Product Name
- Message

4.3 Hardware Interface

- Barcode and smart card enabled system and hence the issue and return of material is handled uniformly.

4.4 Software Interface

Server

- Operating System: Windows
- Processor: Intel Core i5
- RAM: 1GB Mb or more
- Hard Drive: 80 GB or more

Client

- Operating System: Windows and Android
- RAM: 512 Mb or more

Database: My SQL Server

Development Tools: Visual Studio

4.5 Communication Interface

Communication between server and application system need the internet connection into system. Because all the data will be available in server database. Using the web services fetch the data from the server.

❖ Non-Functional Requirement

Performance

The database shall be able to accommodate a thousand record to store. The software shall support use of multiple users at a time. There are no other specific performance requirements that will affect development.

Accuracy

The data stored about the products and fines calculated should be correct, consistent and reliable.

Availability

The System should be available for the duration when the store operates and must be recovered within an hour or less if it fails. The system should respond to the requests within two seconds or less.

Security

Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below. Keep specific log or history data sets.

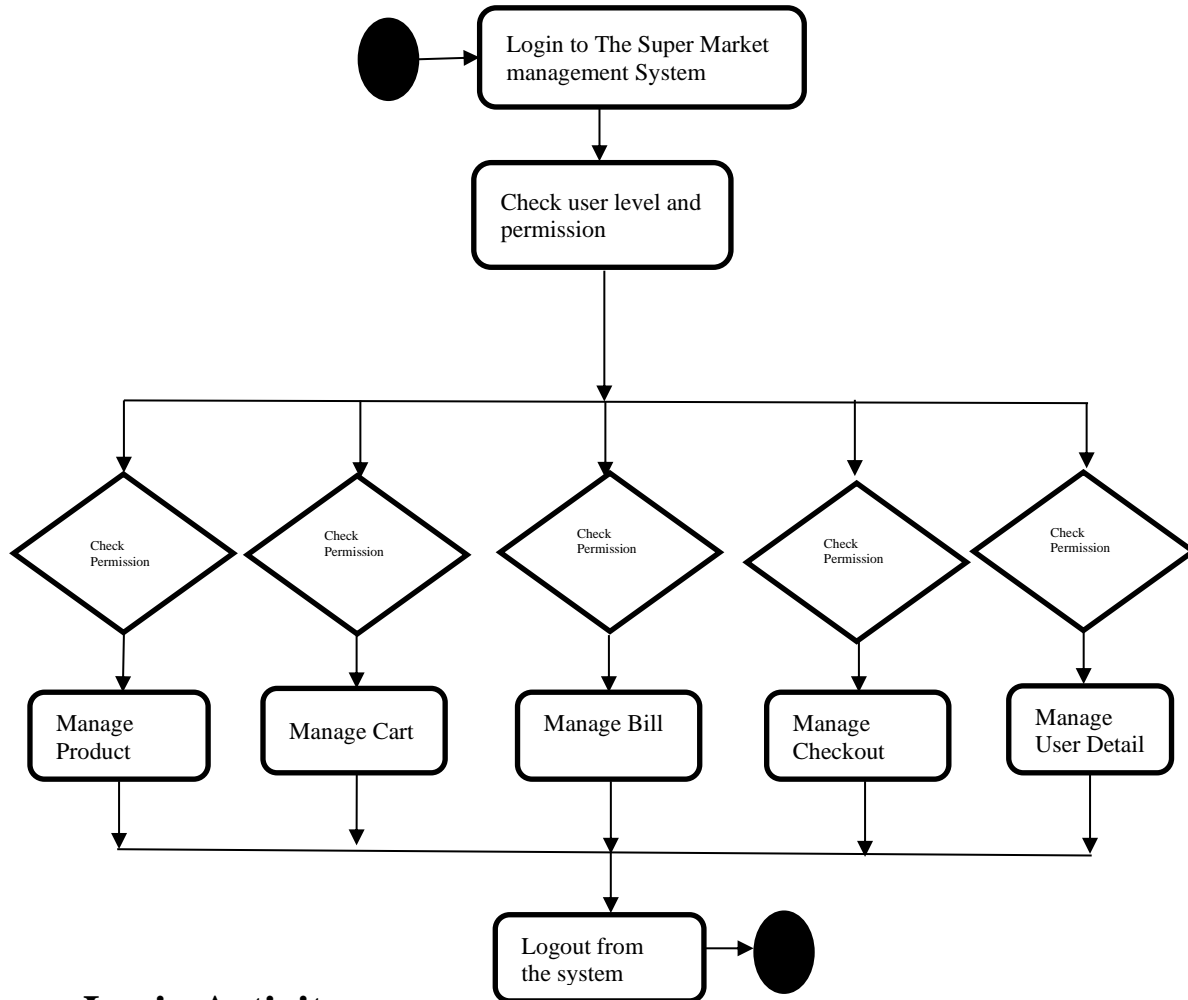
Assign certain function to different modules.

Restrict communications between some areas of the program.

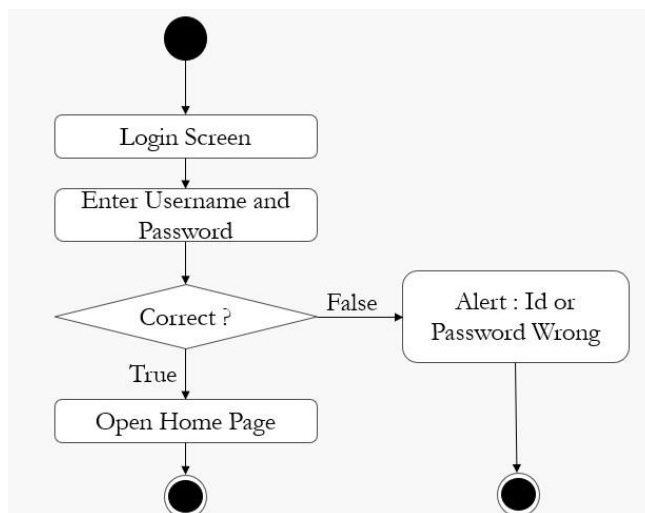
Check data integrity for critical variables.

❖ Appendices

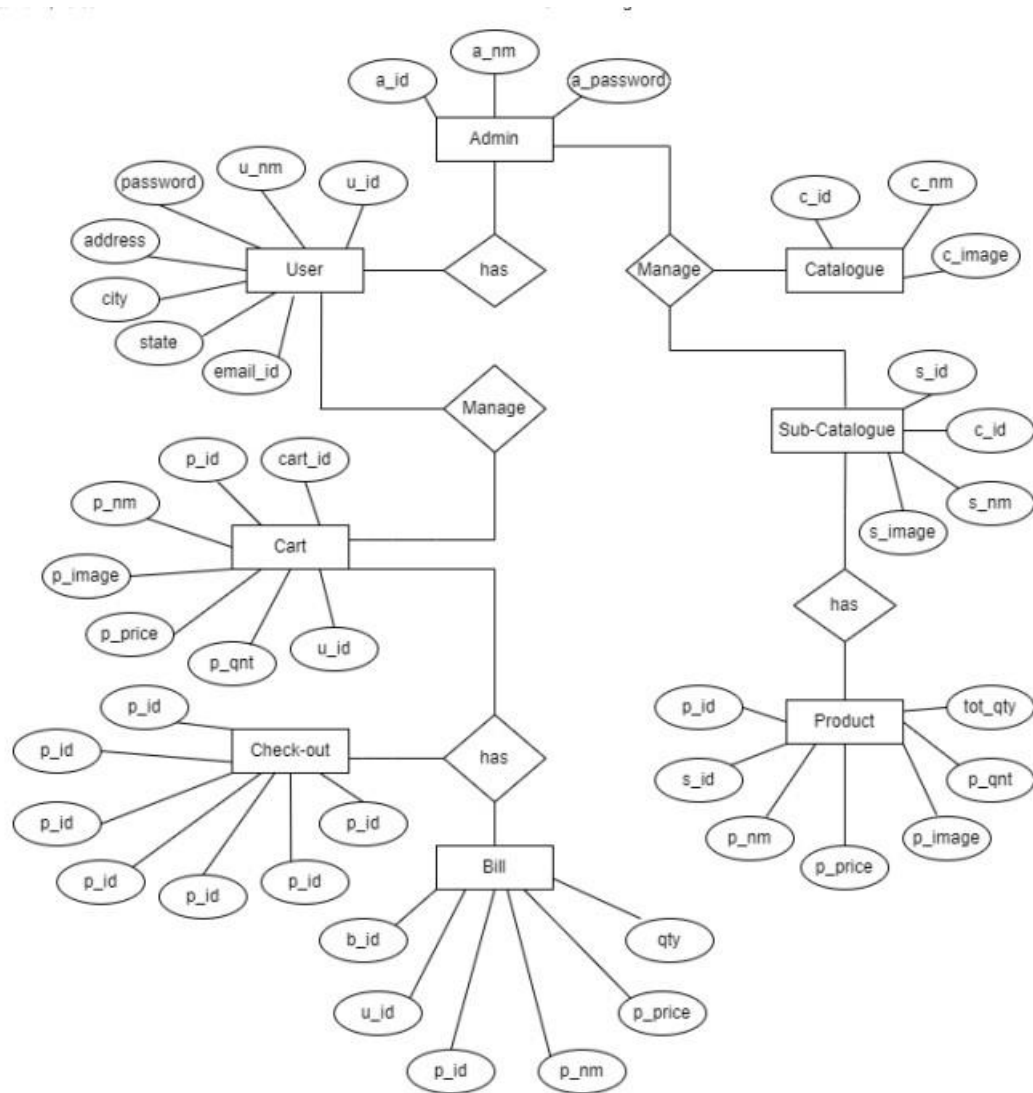
A) Activity Diagram: All Activity



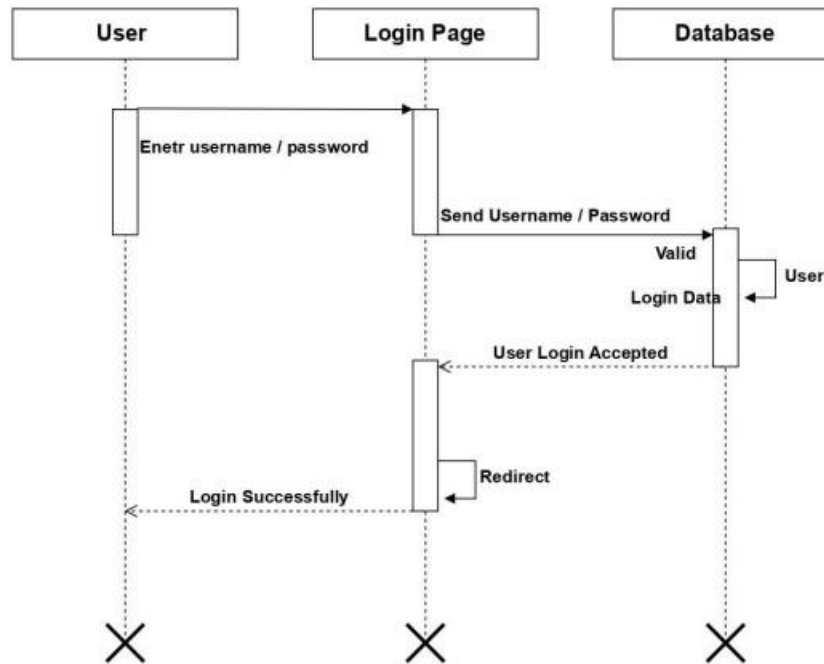
Login Activity



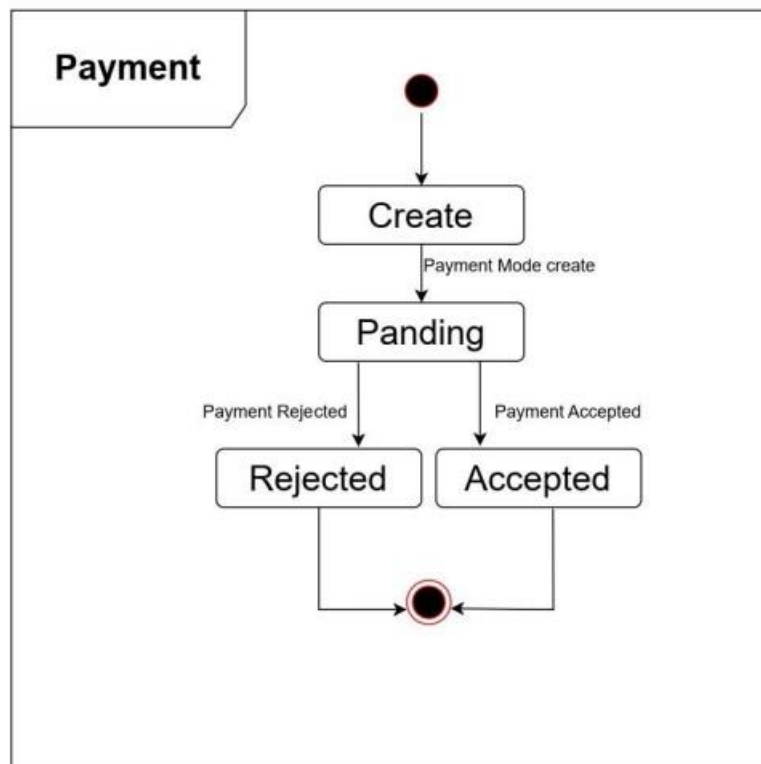
B) E-R Diagram



C) Sequence Diagram

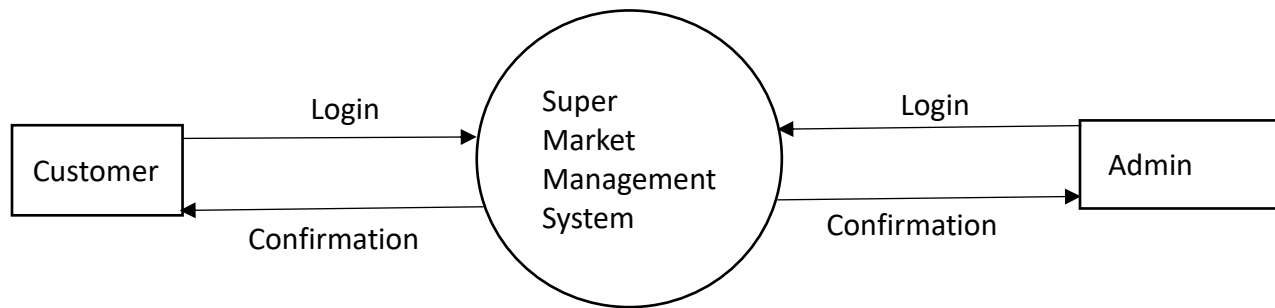


D) State Diagram

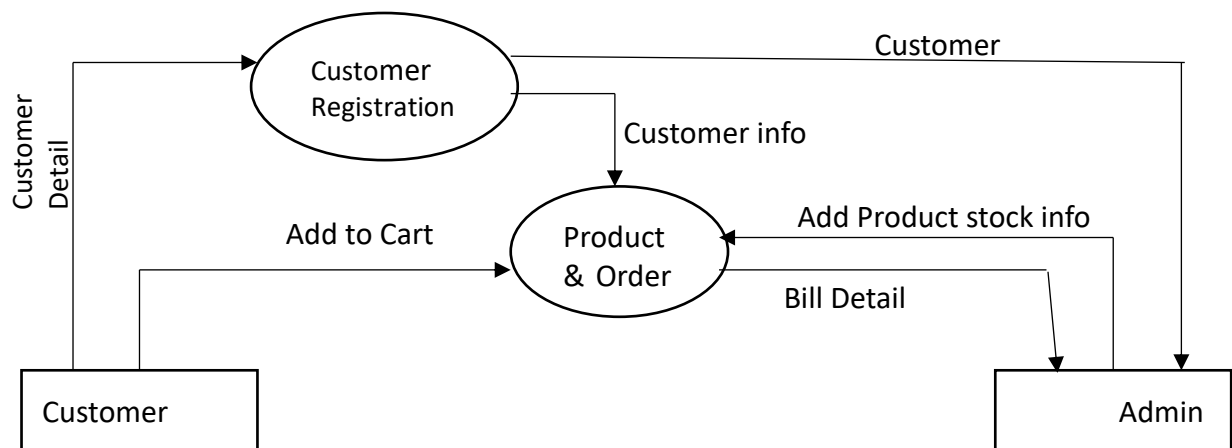


E) Dataflow Diagram

➤ DFD Level 0



➤ DFD Level 1



❖ Database Design

➤ Table 1.1: User Registration Table

Column Name	Data Type	Nulll	Key & Constraint	Length
u_id	Int	Not Null	PK(Auto Increment)	50
u_nm	varchar	Not Null		50
password	varchar	Not Null		50
address	varchar	Not Null		50
city	varchar	Not Null		50
state	varchar	Not Null		50
email_id	varchar	Not Null		50

➤ Table 1.2: Admin Table

Column Name	Data Type	Nulll	Key & Constraint	Length
a_id	Int	Not Null	PK(Auto Increment)	11
a_nm	varchar	Not Null		50
a_password	varchar	Not Null		50

➤ Table 1.3: Catalogue Table

Column Name	Data Type	Nulll	Key & Constraint	Length
c_id	Int	Not Null	PK(Auto Increment)	50
c_nm	varchar	Not Null		50
c_image	varchar	Not Null		100

➤ Table 1.4: Sub Catalogue Table

Column Name	Data Type	Nulll	Key & Constraint	Length
s_id	Int	Not Null	PK(Auto Increment)	50
c_id	Int	Not Null	FK	11
s_img	varchar	Not Null		50
s_nm	varchar	Not Null		50

➤ **Table 1.5:** Product Table

Column Name	Data Type	Nulll	Key & Constraint	Length
p_id	Int	Not Null	PK(Auto Increment)	50
s_id	varchar	Not Null	FK	50
p_nm	varchar	Not Null		50
p_price	decimal	Not Null		50,0
p_img	varchar	Not Null		50
p_qnt	Int	Not Null		50
tot_qty	Int	Not Null		100

➤ **Table 1.6:** Cart Table

Column Name	Data Type	Nulll	Key & Constraint	Length
cart_id	Int	Not Null	PK(Auto Increment)	50
p_id	Int	Not Null	FK	50
p_image	varchar	Not Null		50
p_nm	varchar	Not Null		50
p_price	decimal	Not Null		50,0
p_qnt	Int	Not Null		50
u_id	Int	Not Null	FK	100

➤ **Table 1.7:** Checkout Table

Column Name	Data Type	Nulll	Key & Constraint	Length
chout_id	Int	Not Null	PK(Auto Increment)	50
c_nm	varchar	Not Null		50
c_add	varchar	Not Null		100
c_city	varchar	Not Null		50
c_phone	varchar	Not Null		50
c_email	varchar	Not Null		50
grand_total	Int	Not Null		100

➤ **Table 1.8:** Bill Table

Column Name	Data Type	Nulll	Key & Constraint	Length
b_id	Int	Not Null	PK(Auto Increment)	50
u_id	Int	Not Null	FK	50
p_id	Int	Not Null	FK	50
p_nm	varchar	Not Null		50
p_price	varchar	Not Null		50
qty	Int	Not Null		50

➤ **Table 1.9:** Feedback Table

Column Name	Data Type	Nulll	Key & Constraint	Length
f_id	Int	Not Null	PK(Auto Increment)	100
f_nm	varchar	Not Null		100
city	varchar	Not Null		100
email	varchar	Not Null		100
product	varchar	Not Null		100
message	Int	Not Null		1000

❖ Implementation

➤ User Side Screenshots

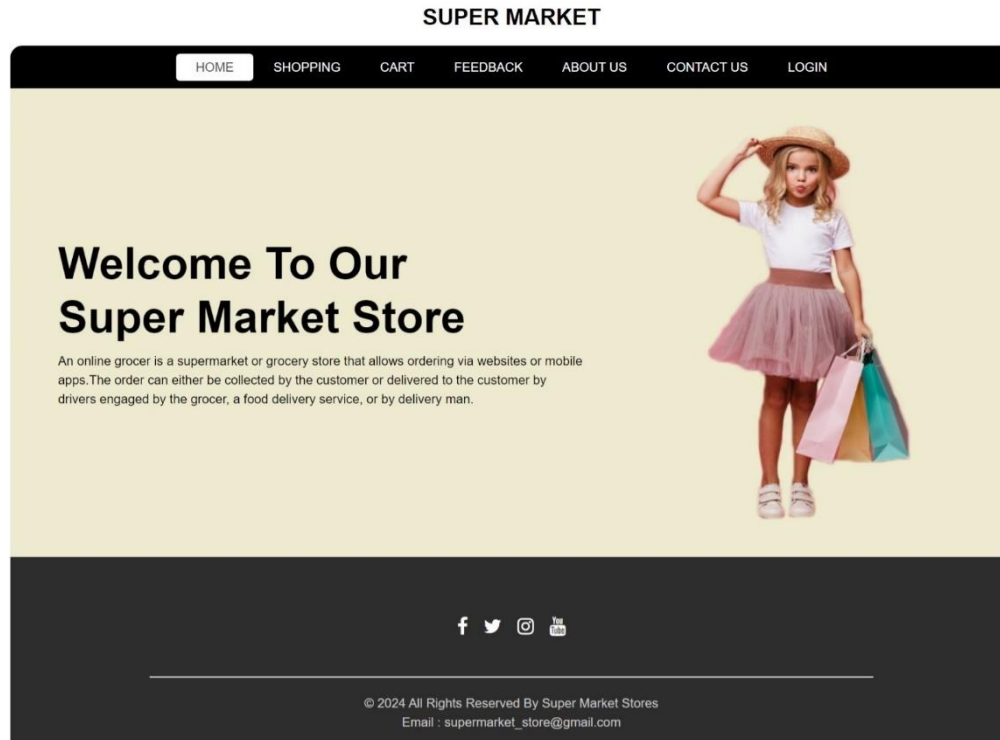


Fig 1.1 Home Page: First page of the website. Home page redirects Different Pages.

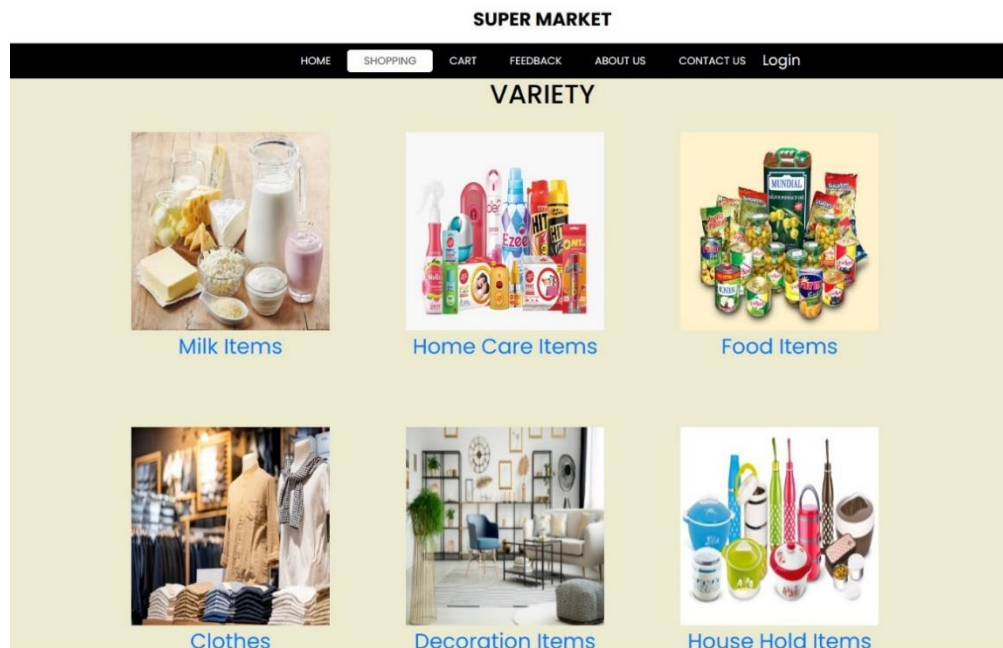


Fig 1.2 Shopping Page: This page display different types of category.

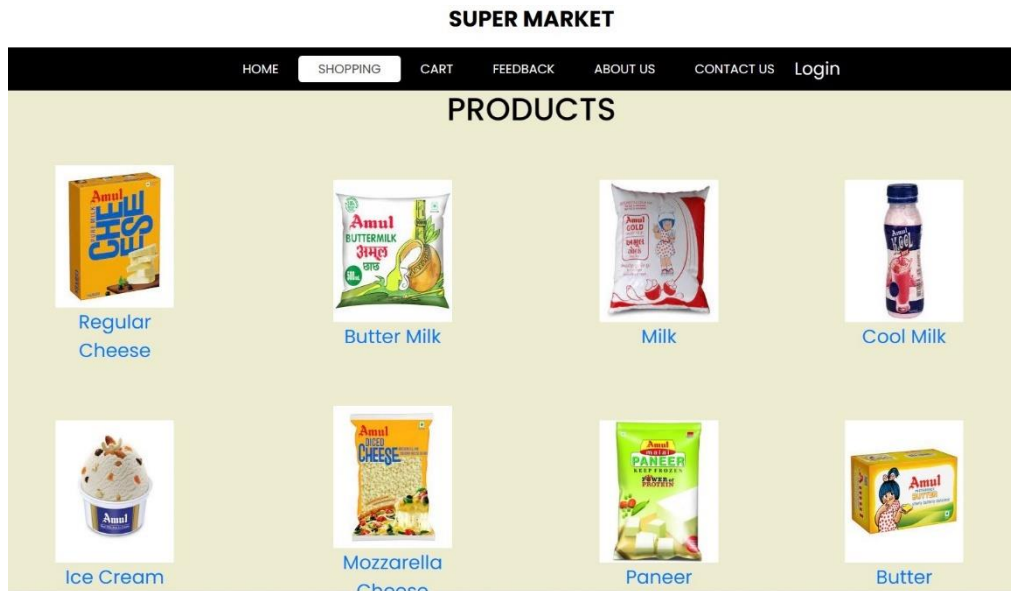


Fig 1.3 Product Page: This page display category wise items.

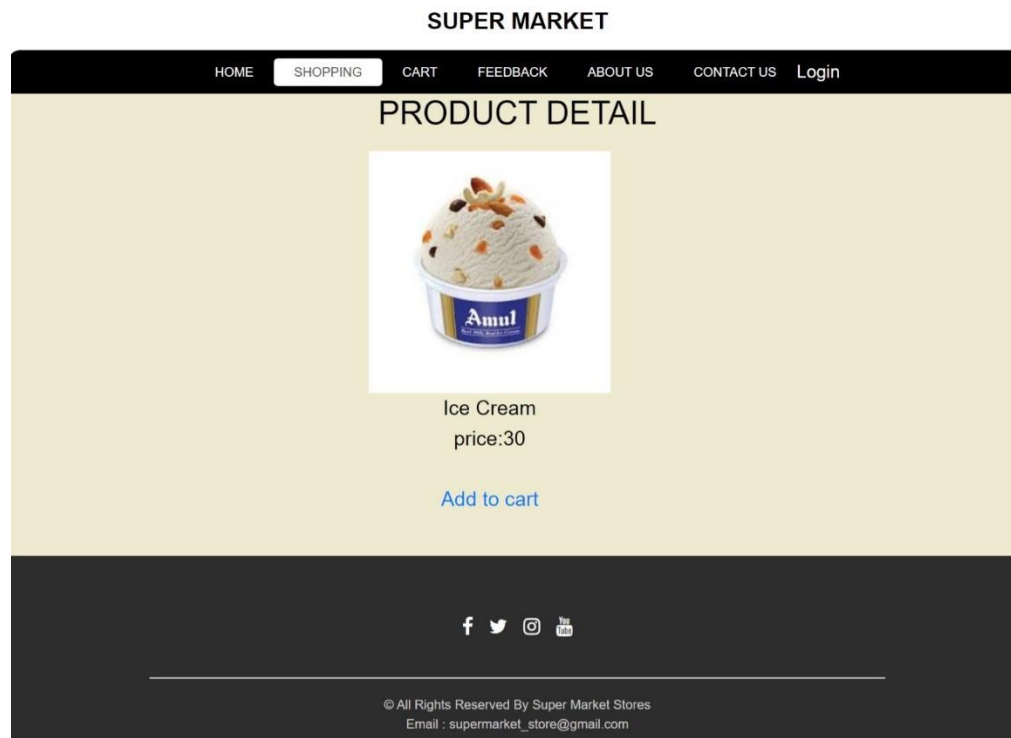


Fig 1.4 Product Detail Page: This page display Product detail.

SUPER MARKET

HOME SHOPPING CART FEEDBACK ABOUT US CONTACT US Login

Pls Login to c the shop page

Login

Username:

Password:

[Registration](#)

f t i y

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Email : supermarket_store@gmail.com

Fig 1.5 Login Page: User can login the website and after the shopping.

SUPER MARKET

HOME SHOPPING CART FEEDBACK ABOUT US CONTACT US Login

Regitration

Username :

Password :

Confirm Password:

Address :

City :

state :

Email id :

phone No :

f t i y


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Fig 1.6 Registration Page: This form will allow the target end-users to register in the system. To register, the following information will be encoded in the system.

SUPER MARKET

HOME SHOPPING **CART** FEEDBACK ABOUT US CONTACT US Logout

SHOPPING CART

Product Image	Product Name & Price	Product Quantity	Delete
	Ice Cream Rs.: 30	1	Remove
Total payable amt: Rs.: 30		update	
checkout			

[Continue Shopping](#)

f t i y

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Email : supermarket_store@gmail.com

Fig 1.7 Cart Page: This page display purchase product all detail.it is display product name, Product image, product price, product quantity, total payable amount and update button for provide work update purchase product and provide create bill link.

SUPER MARKET

HOME SHOPPING **CART** FEEDBACK ABOUT US CONTACT US Logout

CHECK-OUT

Product Name	Quantity	Price	Total
Ice Cream	1	30	30
Total			30

Enter your Billing Details

First Name

Last Name

Address

City

Phone

Email

f t i y

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Email : supermarket_store@gmail.com

Fig 1.8 Check-Out Page: This page display to fill the bill form and check-out the all details.

SUPER MARKET

HOME SHOPPING **CART** FEEDBACK ABOUT US CONTACT US Logout

BILLING DETAILS

Super Market Store			
Name : ram patel		Address : Kotecha chowk	
Contact :4530592423		City :rajkot	
Email id :ram_12@gmail.com		Date :11/02/24	
Product Name	Quantity	Price	Total
Ice Cream	1	30	30
Your Grand total is			30
			Done

f t i y

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Email : supermarket_store@gmail.com

Fig 1.9 Bill Page: This page display Billing details.

SUPER MARKET

HOME **SHOPPING** CART FEEDBACK ABOUT US CONTACT US Logout

THANKS FOR ORDERING THE PRODUCTS, ENJOY IT!!!

f t i y

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Fig 1.10 Done Page: This page is display thank you message for purchase the products.

SUPER MARKET

HOME SHOPPING CART **FEEDBACK** ABOUT US CONTACT US Logout

FEEDBACK

Name:

City:

Email:

product:

Message:

f t i y

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Email : supermarket_store@gmail.com

Fig 1.11 Feedback Page: This form display Users gives feedback.

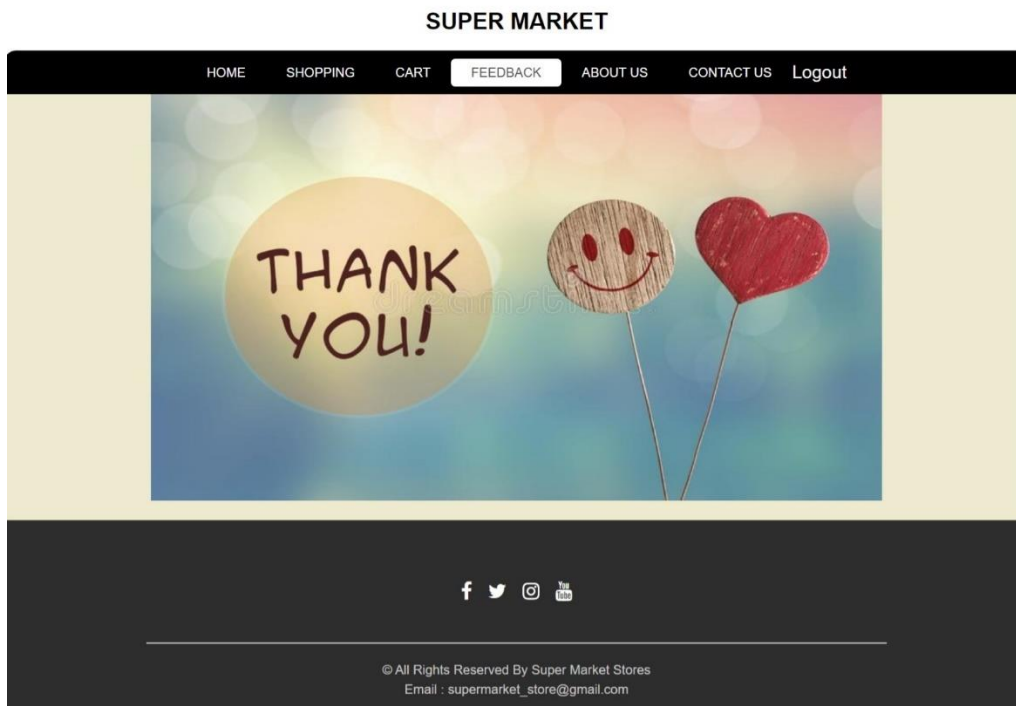


Fig 1.12 Thanks Page: This page is display thank you message for send the feedback.

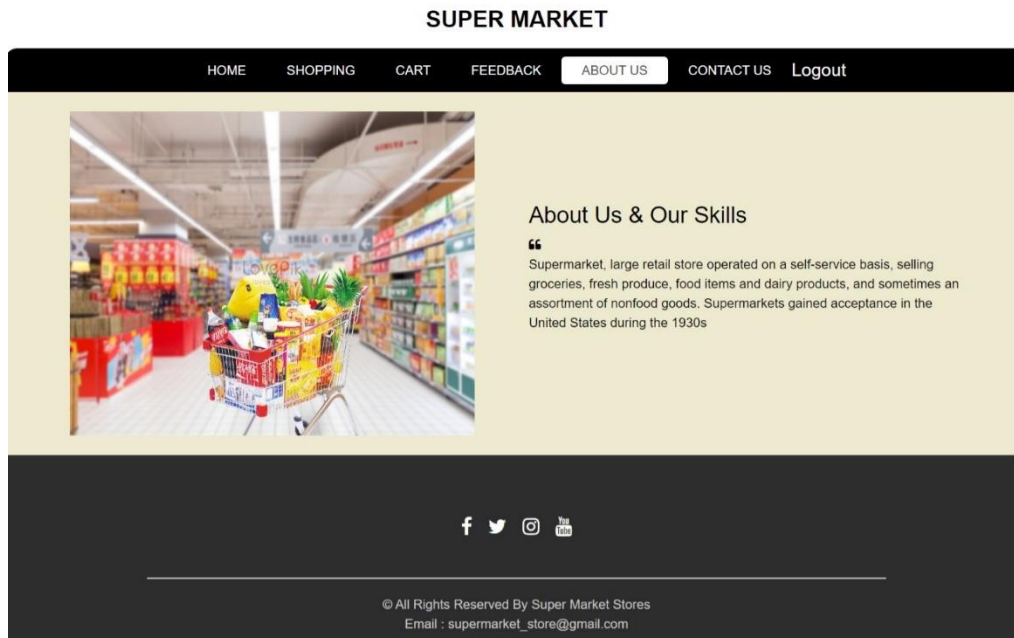


Fig 1.13 About Page: This page display about the super market store.

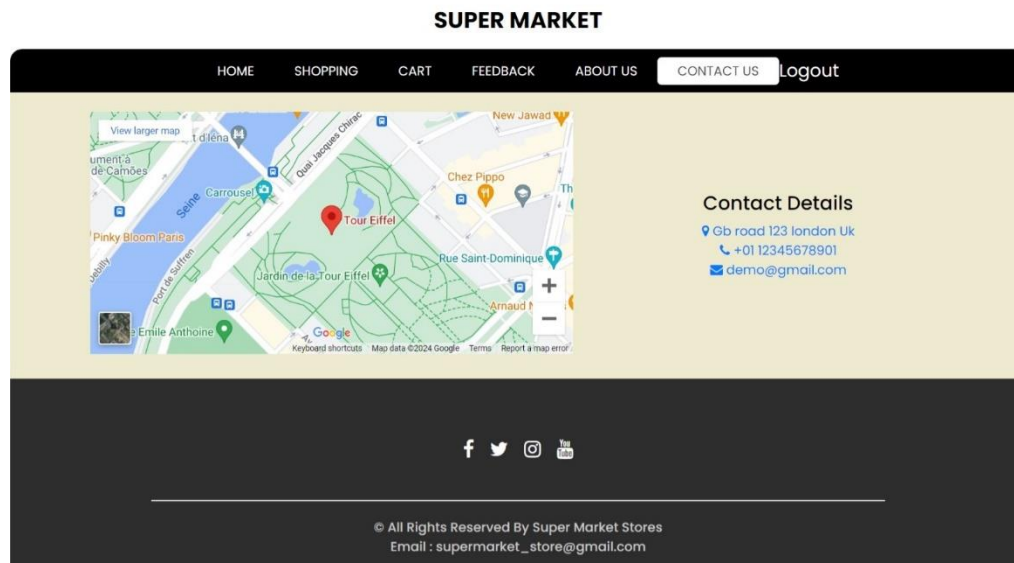


Fig 1.14 Contact Us Page: This page display contact details.

➤ Admin Side Screenshots

SUPER MARKET

HOME VARIETY DETAILS FEEDBACK DETAILS USER DETAILS BILLING DETAILS **Login**

LOGIN

Admin Name:

Password:

f t i y

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Fig 2.1 Login Page: Admin can login the website and after the changes in website.

SUPER MARKET

HOME VARIETY DETAILS FEEDBACK DETAILS USER DETAILS BILLING DETAILS **Logout**

Welcome To Our Admin Panel

f t i y

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Fig 2.2 Welcome Page: This page display welcome message.

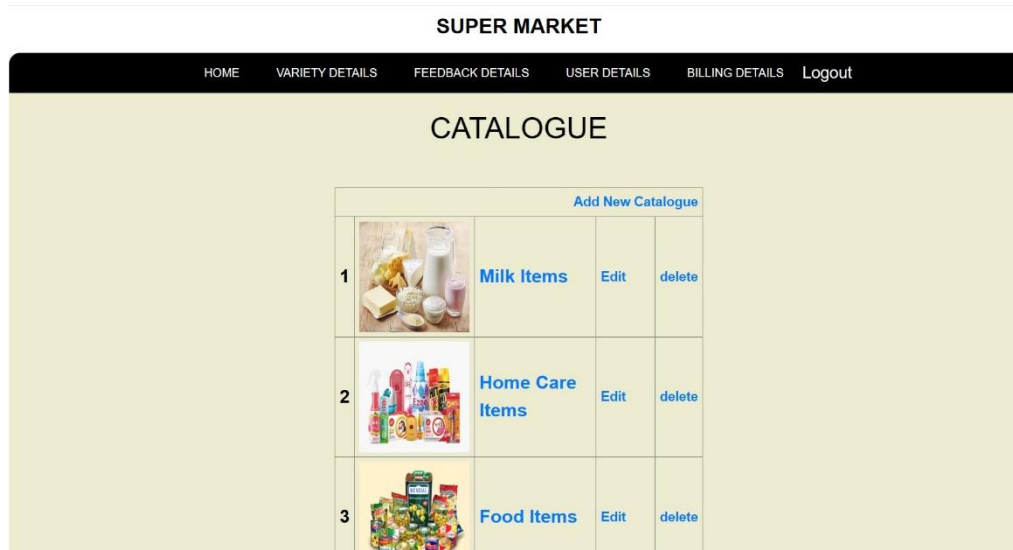


Fig 2.3 Catalogue Page: This page display different category Add, Edit and Delete option.

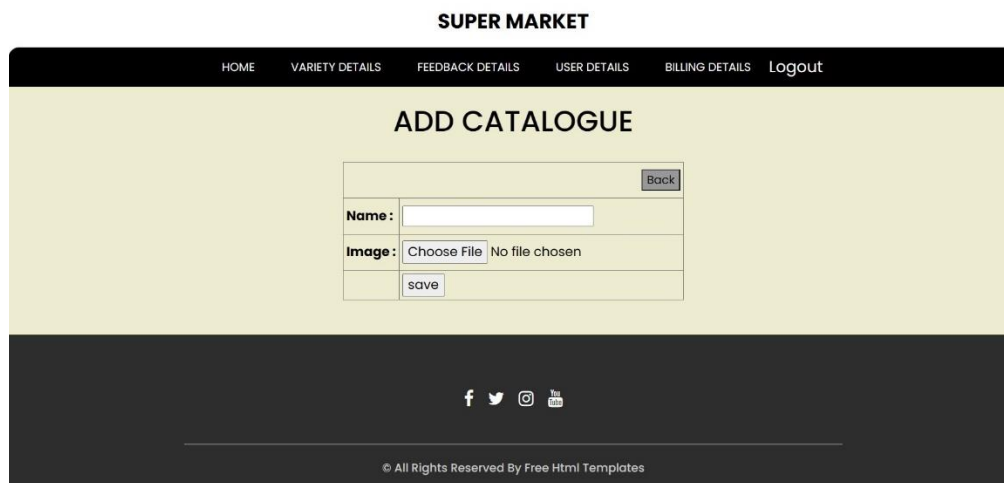


Fig 2.4 Add Catalogue Page: This page provide add new catalogue.


SUPER MARKET

HOME VARIETY DETAILS FEEDBACK DETAILS USER DETAILS BILLING DETAILS Logout

EDIT CATALOGUE

[Back](#)

Name:

Image: 

[Choose File](#) No file chosen

[update](#)

f t i y

Fig 2.5 Edit Catalogue Page: This page provide edit the catalogue.

SUPER MARKET

HOME VARIETY DETAILS FEEDBACK DETAILS USER DETAILS BILLING DETAILS Logout

SUB CATALOGUE

[Add New SubCatalogue](#)





1		Regular Cheese	Edit	delete
2		Butter Milk	Edit	delete
3		Milk	Edit	delete
4		Cool Milk	Edit	delete

Fig 2.6 Sub-Catalogue Page: This page display different Sub-Catalogue Add, Edit and Delete option.

Fig 2.7 Add Sub-Catalogue Page: This page provide add new sub-catalogue.

Fig 2.8 Edit Sub-Catalogue Page: This page provide edit the sub-catalogue.

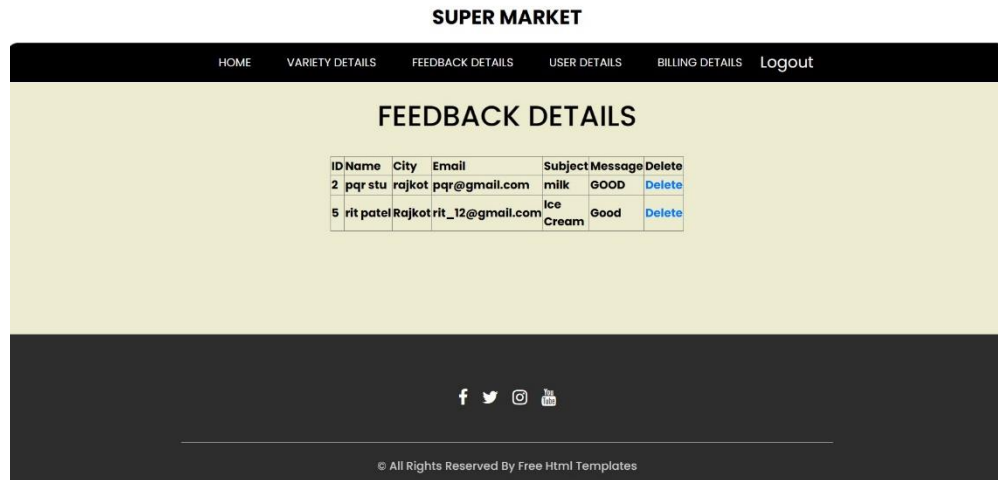


Fig 2.9 Feedback Detail Page: This page display Feedback details.

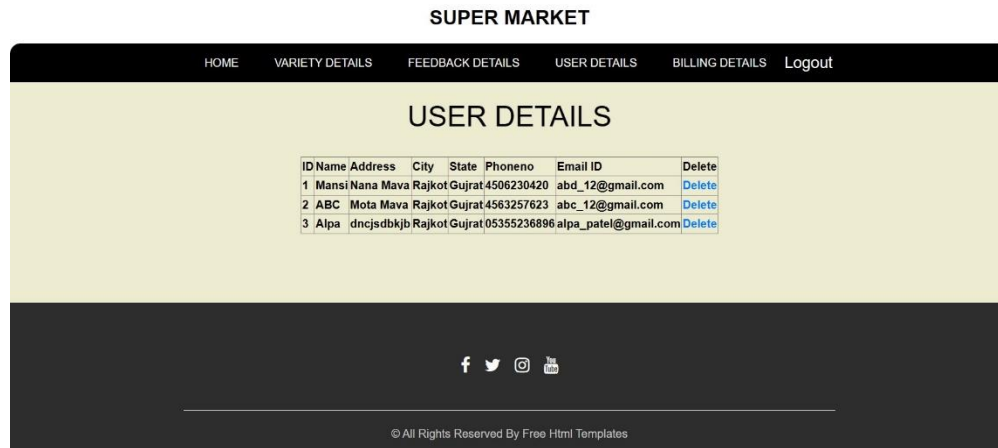


Fig 2.10 User Detail Page: This page display User details.

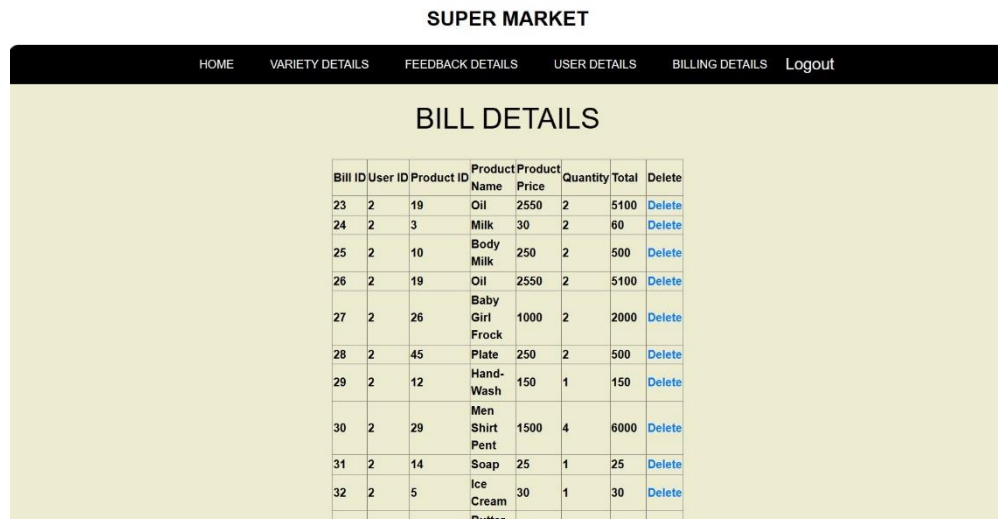


Fig 2.11 Bill Detail Page: This page display Billing details.

❖ References

- http://www.w3schools.com/html/html_intro.asp
- <https://www.w3schools.com/sql/default.asp>
- <https://www.w3schools.com/php/>
- <https://www.geeksforgeeks.org/php-tutorial/>

