Project Name: Online Dairy World
Branch PG-DAC Mar-2023

Documentation On

"Online Dairy world"
PG-DAC March 2023

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Submitted By:

Group No: 21

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1. Introduction

1.1 Document Purpose

The purpose of an Online Dairy World Web Application BRS (Business Requirements Specification) document is to outline the specific business requirements and functionalities of an online dairy web application. This document serves as a blueprint for the development team, guiding them in creating the application according to the desired specifications and objectives.

1.2 Project Background

With the rise of e-commerce and changing consumer preferences, many dairy producers are looking to establish a direct connection with their customers. An Online Dairy Web Application allows farmers and sweet dealers to sell their products directly to consumers without relying solely on traditional distribution channels. It will enable dairy businesses to transit from traditional, manual processes to digital platforms, allowing for greater automation, accuracy, and convenience.

1.3 Goals of the project

One of the primary goals is to provide an online platform for selling dairy products directly to customers. This allows dairy producers to expand their reach beyond traditional brick-and-mortar stores and tap into a larger customer base. It also makes it easier for customers to access a wide range of dairy products without physically visiting multiple stores. Customers can explore product catalogues, check availability, sort products according to prices, quantity, name and place orders at their convenience. This accessibility can be particularly useful for customers who have limited access to physical stores or prefer online shopping.

2. Business Requirements Overview

- Online Dairy World system is the public web application.
- Online Dairy World system will be opened to the India, but in the phase 1, the main target is the Maharashtra's Pune city.
- There will be mainly 3 types of user. One is the Sweets Dealer, second one is Farmer and last one is Consumer.
- Sweet Dealers and Farmers both can add their products on the system to sell.
- Consumer can search for the products available on the system and even the information about the farmer and dealer and accordingly purchased those products.
- Online Dairy World System provides the functions which connect the farmers, Sweet dealers and consumers efficiently.
- Online Dairy World System could be maintained by Administrator.

3. Functional Requirements Overview

Online Dairy World System consists of four modules described as below.

1. Admin Module
2. Buyer Module

3.1 Admin Module:

- Admin can add, update, delete employees who will deliver the product .
- Admin can add, update, delete suppliers.
- Admin can browse through all products.
- Admin can handover over delivery to delivery boy.
- Admin will keep status of all the orders.
- Admin will receive payment from sellers.
- Admin can authenticate suppliers
- Registration and creation of supplier profile
- Add , delete, update Products.
- Supplier will receive payment from customers.
- Supplier will handover respective products to delivery boy.

3.2 Buyer Module:

- Creation , updation, deletion of user profile
- Browse through all the products
- Buyer can place order.
- Buyer can cancel order.
- Make payment.
- Buyer gets notified on receiving order.
- Buyer can give feedback about product.

4. Non-Functional Requirements

4.1. Performance: The web application should be able to handle concurrent user requests efficiently and provide a responsive user experience.

4.2. Security: User data, including personal information and payment details, should be securely stored and transmitted using encryption protocols.

4.3. Usability: The user interface should be intuitive, visually appealing, and easy to navigate, ensuring a seamless shopping experience.

4.4. Reliability: The application should be reliable, with minimal downtime and error handling mechanisms to handle exceptions gracefully.

4.5. Scalability: The application should be scalable to handle increasing user traffic and accommodate a growing number of products and orders.

4.6. Compatibility: The web application should be compatible with different web browsers and devices to ensure broad accessibility.

4.7. Accessibility: The application should be designed with accessibility features to cater to users with disabilities, adhering to accessibility standards.

4.8. Inventory Management: The system should include inventory management capabilities to track product availability and update stock levels in real-time.

4.9. Performance Monitoring: The application should have monitoring tools to track performance metrics, identify bottlenecks, and optimize system resources.

4.10. Compliance: The web application should comply with relevant legal and industry standards, such as data protection, privacy regulations, and online payment security guidelines.

5. Use-Case Diagram

5.1 Admin:

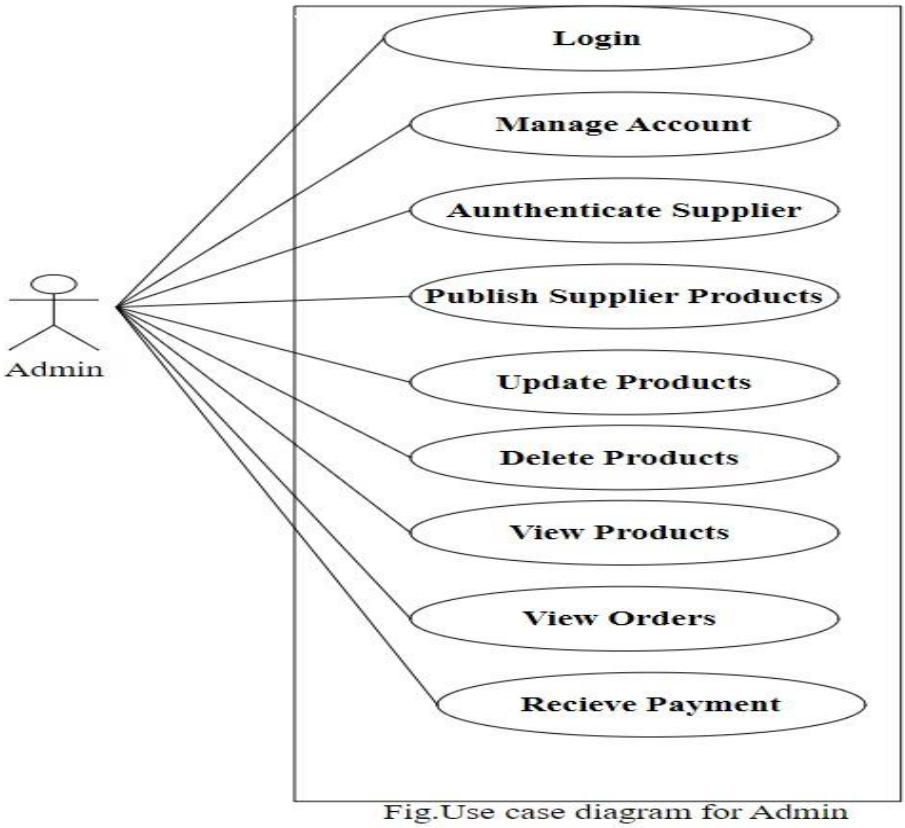


Fig.Use case diagram for Admin

5.2 Buyer

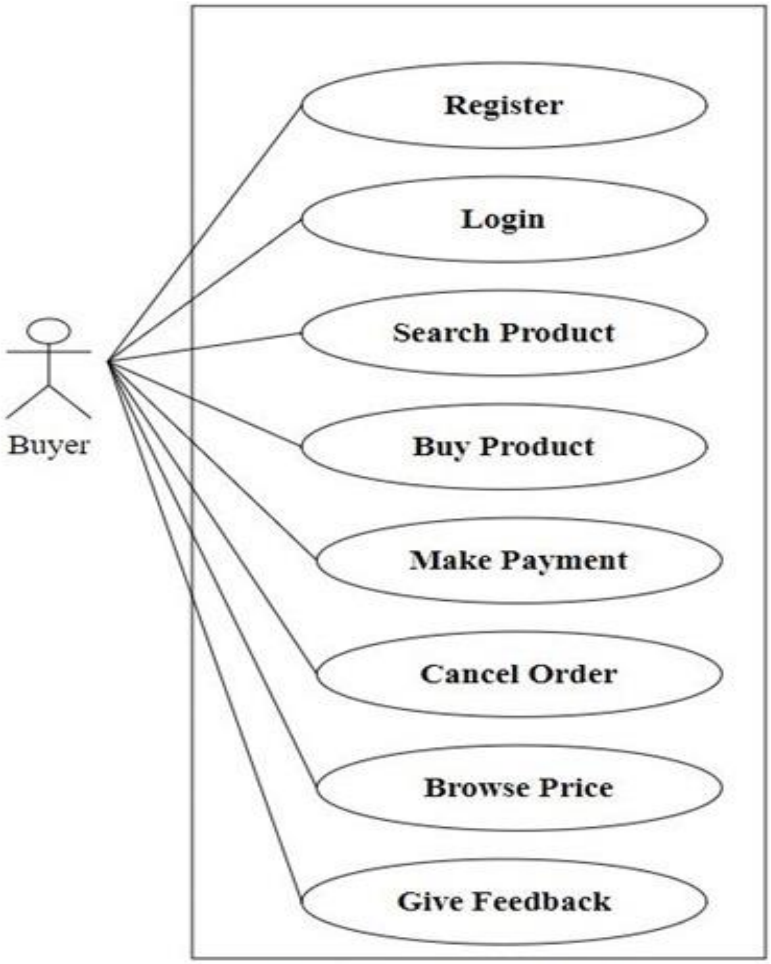


Fig.Use case diagram for Buyer

6. Database Design:

1]user table

```
mysql> desc user;
+-----------+--------------+------+-----+---------+----------------+
| Field     | Type         | Null | Key | Default | Extra          |
+-----------+--------------+------+-----+---------+----------------+
| user_id   | int          | NO   | PRI | NULL    | auto_increment |
| address   | varchar(200) | YES  |     | NULL    |                |
| email     | varchar(50)  | YES  | UNI | NULL    |                |
| firstname | varchar(20)  | YES  |     | NULL    |                |
| is_admin  | bit(1)       | YES  |     | NULL    |                |
| lastname  | varchar(20)  | YES  |     | NULL    |                |
| password  | varchar(30)  | YES  |     | NULL    |                |
| phone_no  | varchar(15)  | YES  |     | NULL    |                |
+-----------+--------------+------+-----+---------+----------------+
```

2] Farmers Table

```
+-----------+--------------+------+-----+---------+----------------+
| Field     | Type         | Null | Key | Default | Extra          |
+-----------+--------------+------+-----+---------+----------------+
| farmer_id | int          | NO   | PRI | NULL    | auto_increment |
| address   | varchar(200) | YES  |     | NULL    |                |
| email     | varchar(50)  | YES  |     | NULL    |                |
| firstname | varchar(20)  | YES  |     | NULL    |                |
| lastname  | varchar(20)  | YES  |     | NULL    |                |
| phone_no  | varchar(15)  | YES  | UNI | NULL    |                |
+-----------+--------------+------+-----+---------+----------------+
```

3]Categories Table

Field	Type	Null	Key	Default	Extra
category_id	int	NO	PRI	NULL	auto_increment
category_name	varchar(255)	YES	UNI	NULL	

4]Stock_details table

Field	Type	Null	Key	Default	Extra
product_id	int	NO	PRI	NULL	auto_increment
product_image	varchar(400)	YES		NULL	
price_per_unit	float	YES		NULL	
quantity	int	NO		NULL	
stock_item	varchar(50)	NO	UNI	NULL	
category_id	int	YES	MUL	NULL	
farmer_id	int	YES	MUL	NULL	

5]Order_details table

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
amount	double	NO		NULL	
order_item	varchar(20)	NO		NULL	
quantity	int	NO		NULL	
farmer_id	int	YES	MUL	NULL	
order_id	int	NO	MUL	NULL	

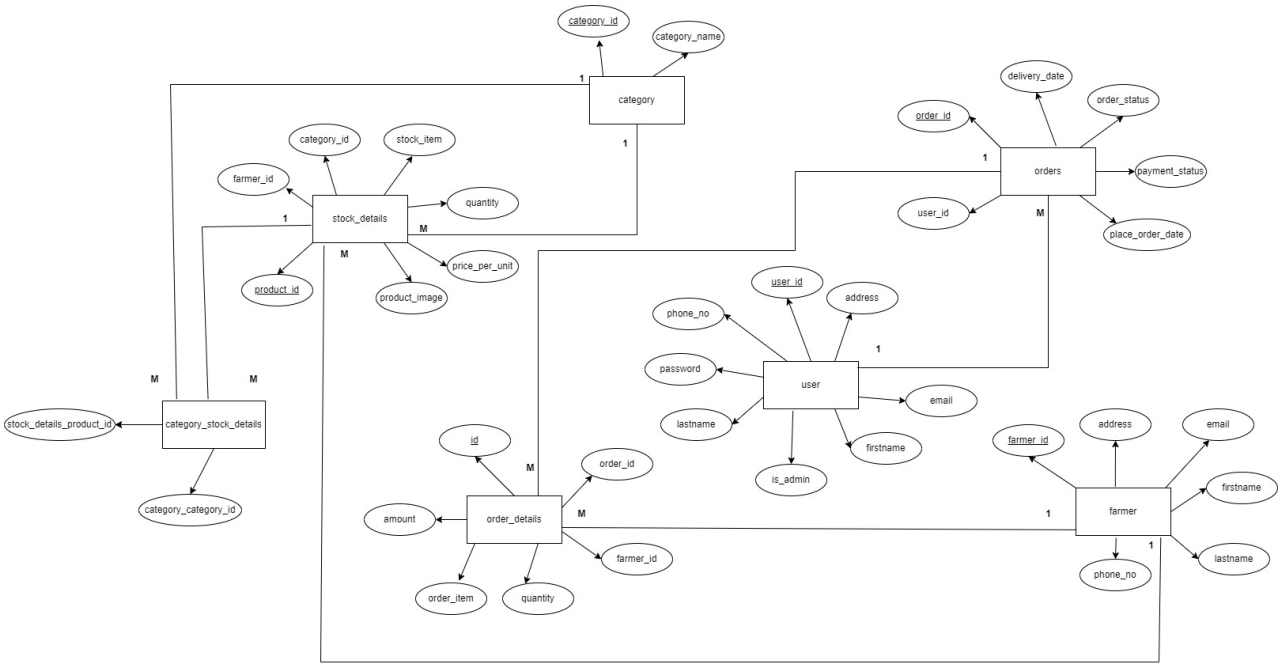
6]Orders table

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	auto_increment
delivery_date	date	YES		NULL	
delivery_status	bit(1)	YES		NULL	
payment_status	bit(1)	YES		NULL	
place_order_date	date	YES		NULL	
user_id	int	NO	MUL	NULL	

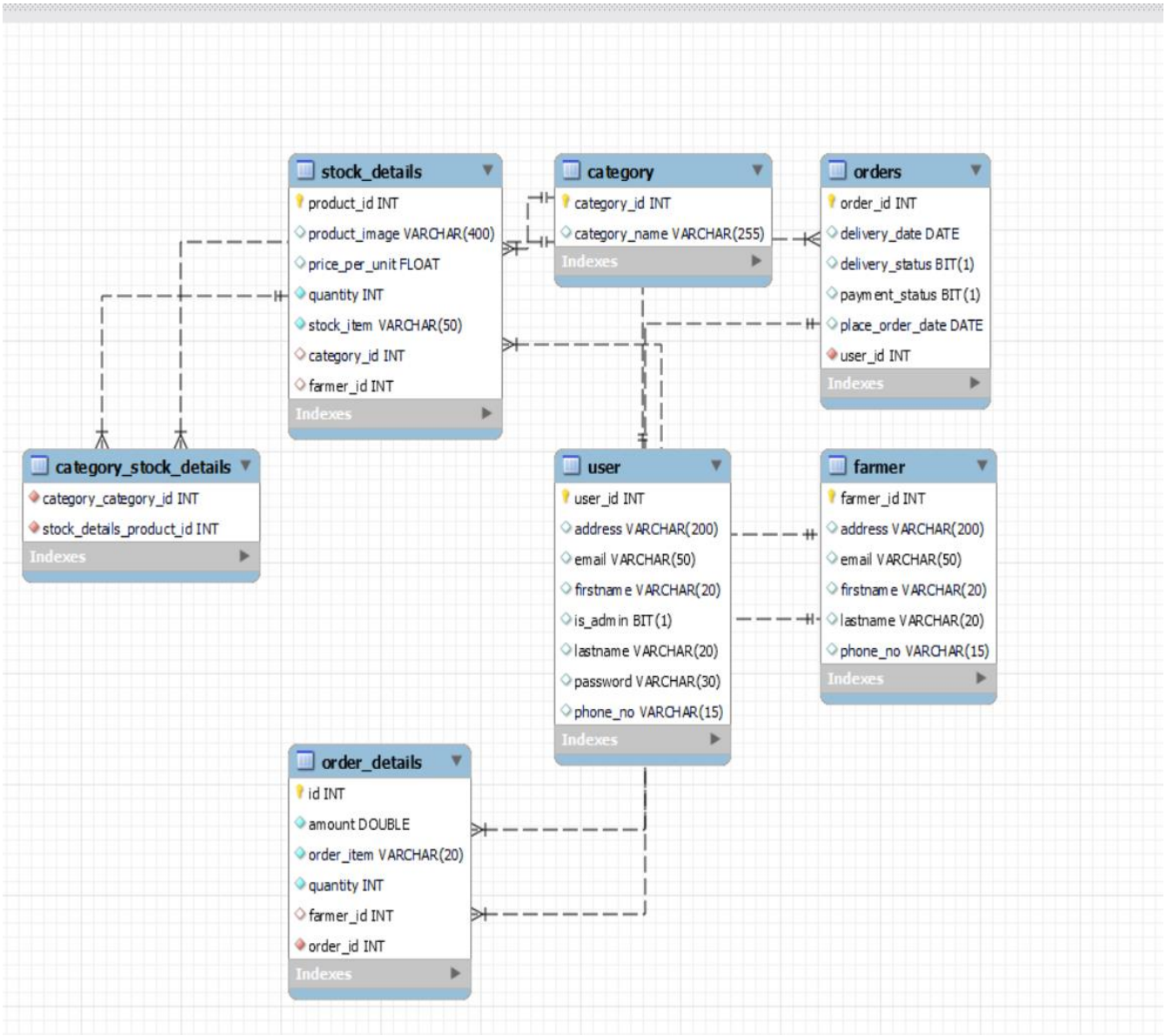
7] category_stock_details table

Field	Type	Null	Key	Default	Extra
category_category_id	int	NO	MUL	NULL	
stock_details_product_id	int	NO	PRI	NULL	

7.ER-Diagram


category_id
category_name
category
1
1
category_id
stock_item
farmer_id
stock_details
quantity
1
M
M
price_per_unit
product_id
product_image
delivery_date
order_status
order_id
orders
payment_status
user_id
M
place_order_date
user_id
address
phone_no
password
user
email
lastname
firstname
is_admin
M
M
stock_details_product_id
category_stock_details
category_category_id
id
order_id
M
amount
order_details
M
farmer_id
order_item
quantity
farmer_id
address
email
firstname
farmer
1
1
lastname
phone_no

8.Class Diagram:

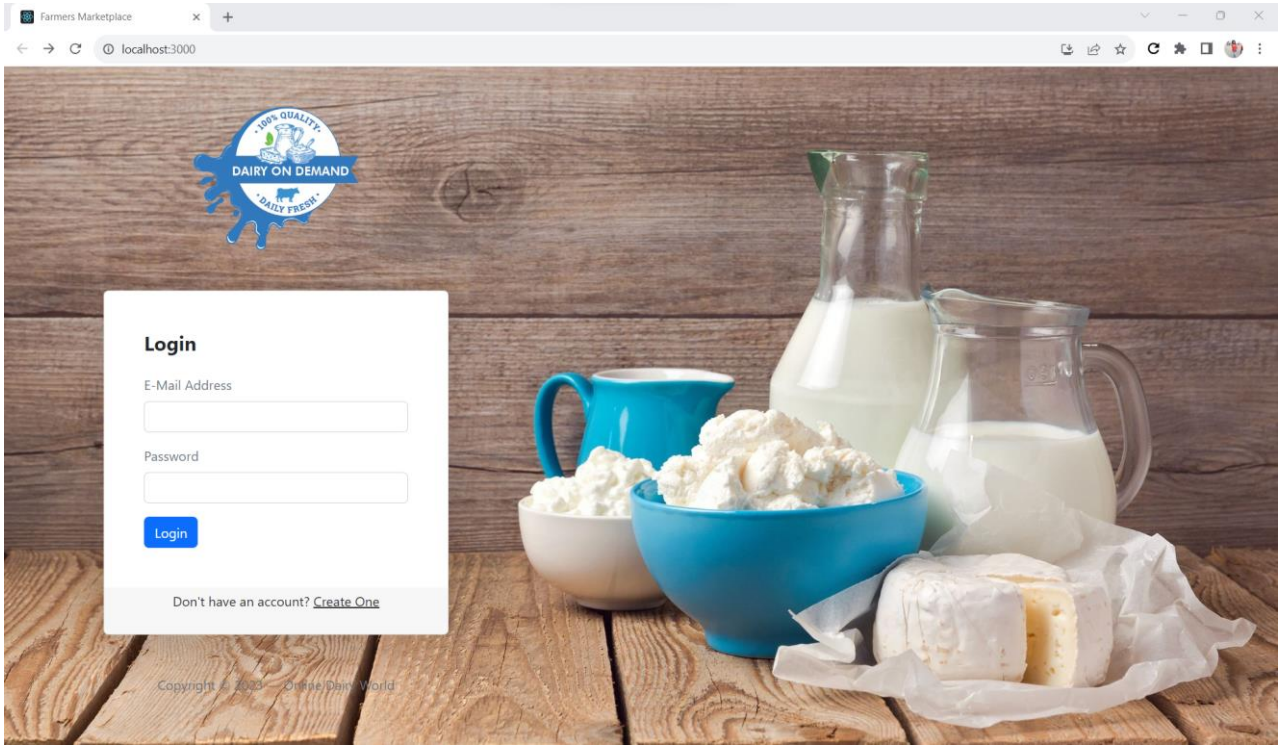


E-R diagram shows database of Online Dairy World

9. Snapshots:

9.1 Home Page & Login Page:

Following snapshot shows the Home page and login page.

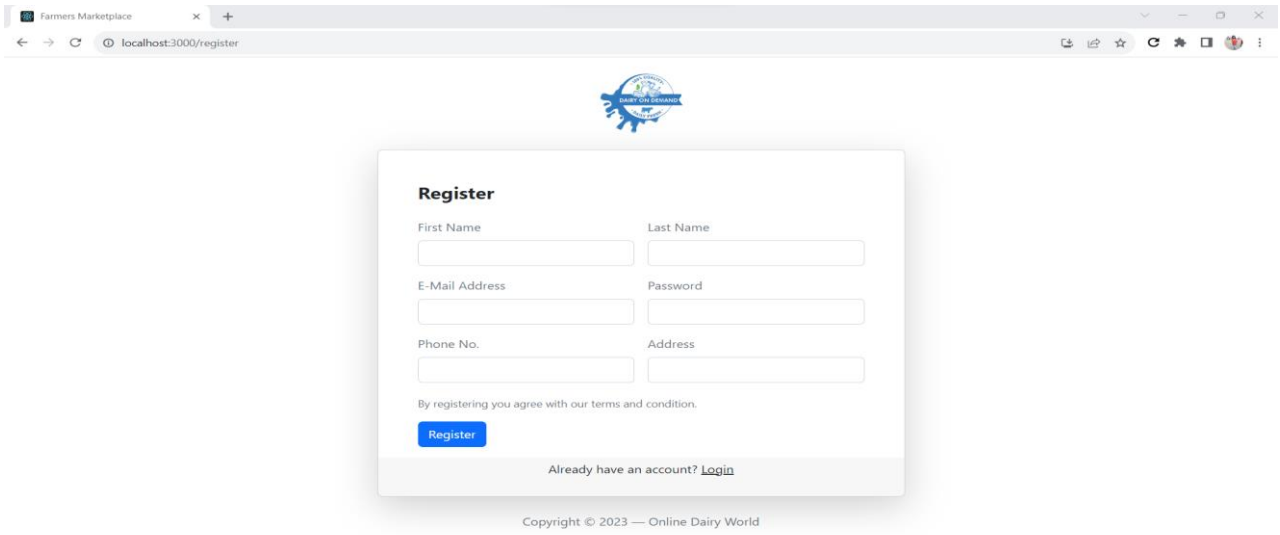


This page contains following controls

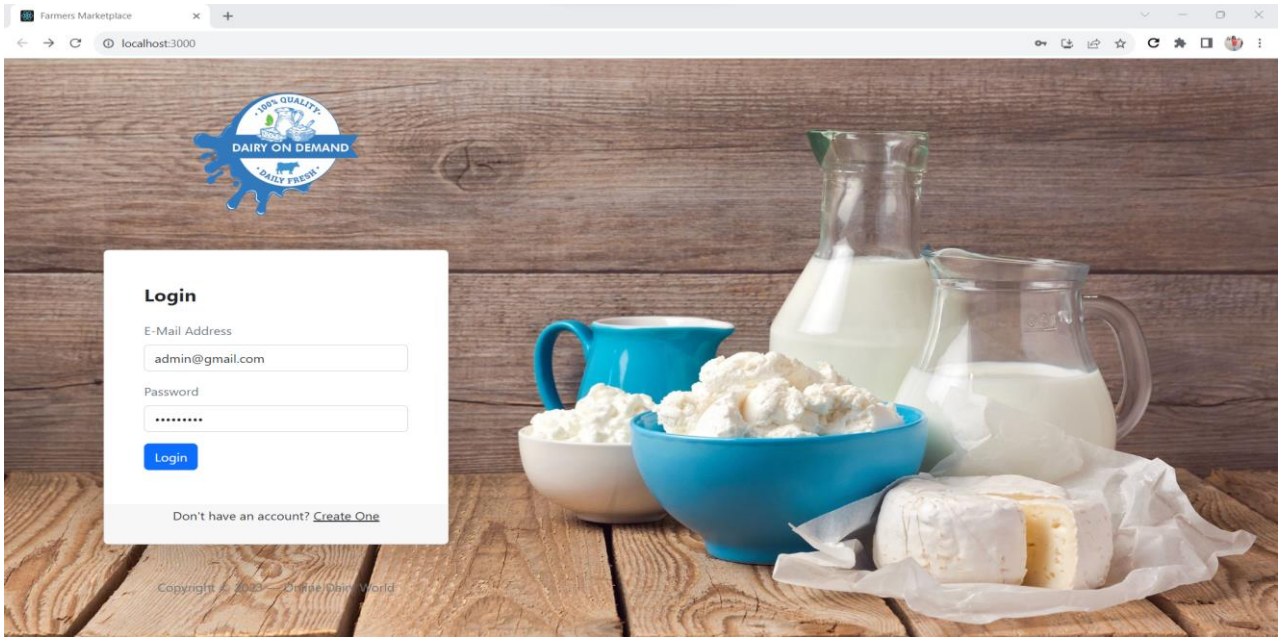
- Home
- Sign Up
- Login Button

This page also contains copyright consisting information about the website.

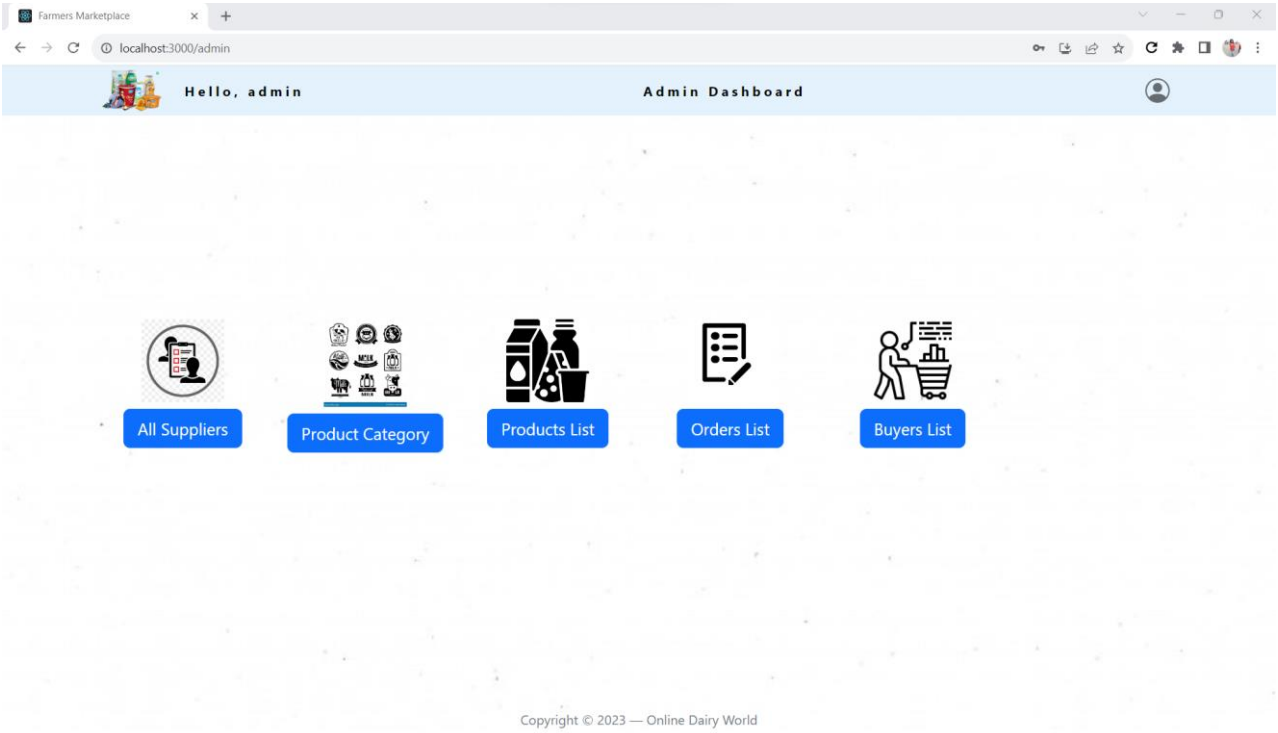
9.2 Registration Page:



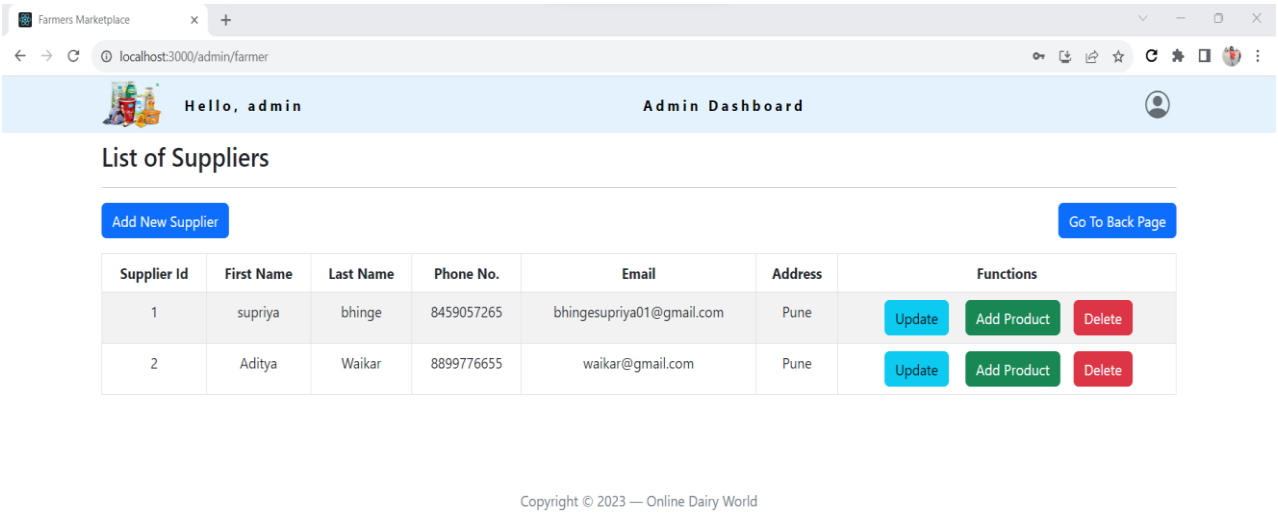
9.3 Admin Login Page



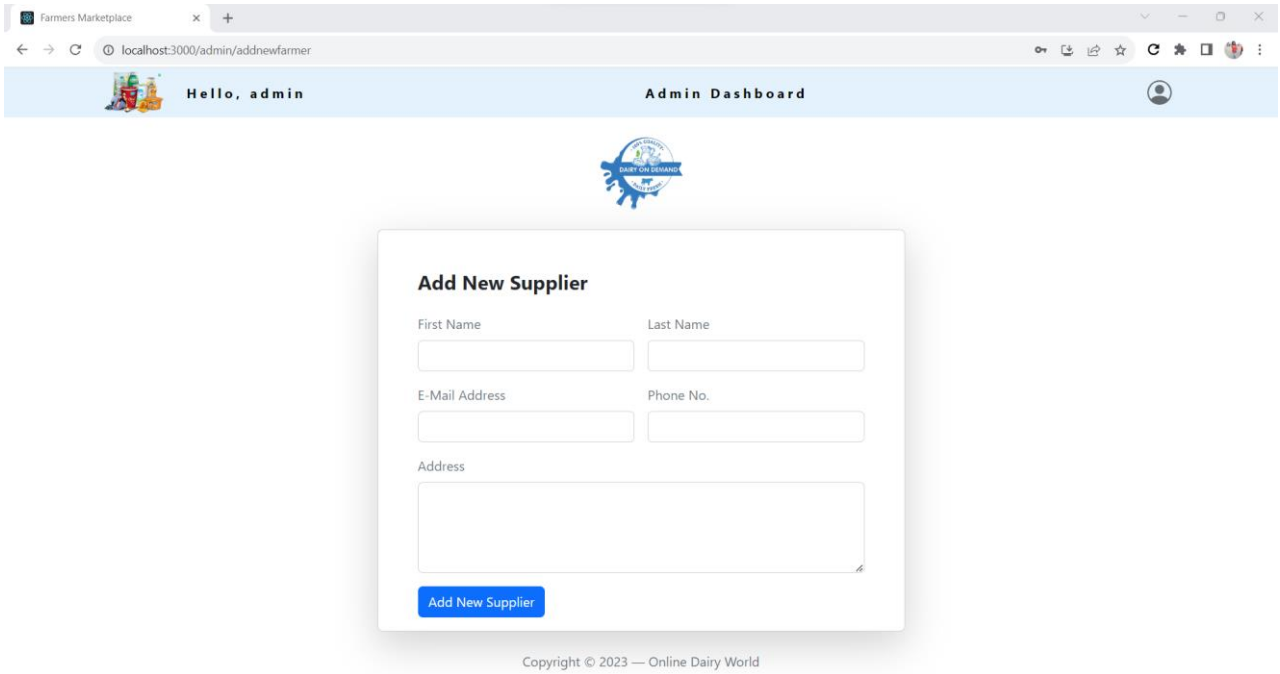
9.3.1 Admin Home Page



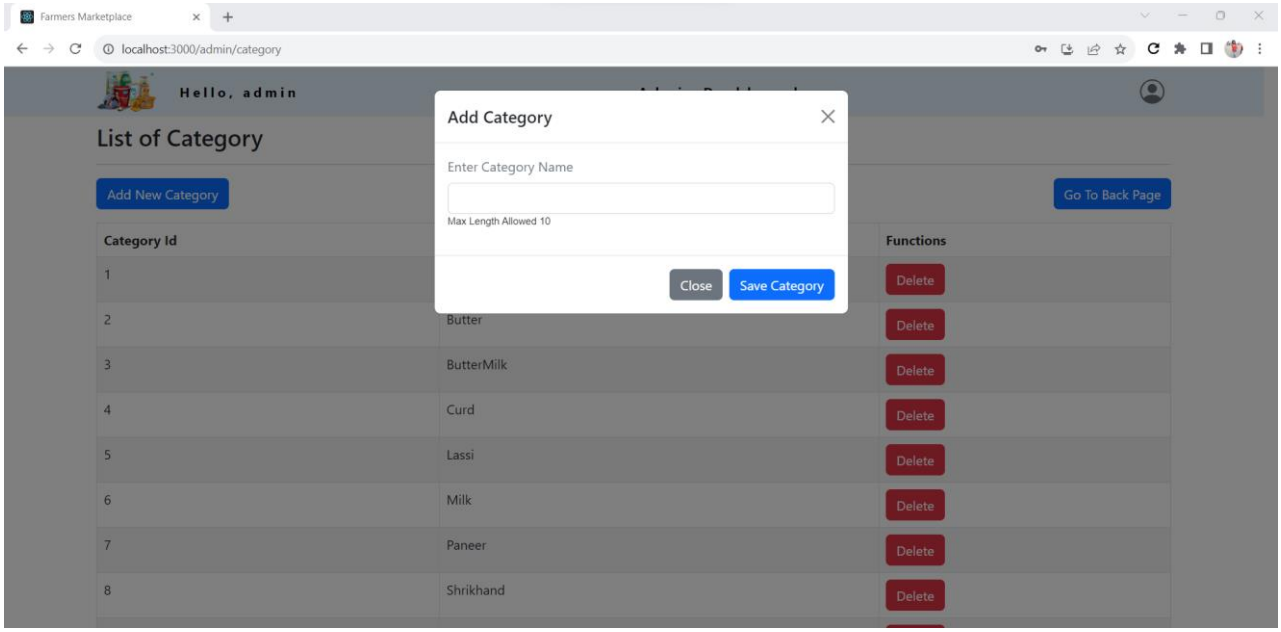
9.3.2 List of all suppliers.



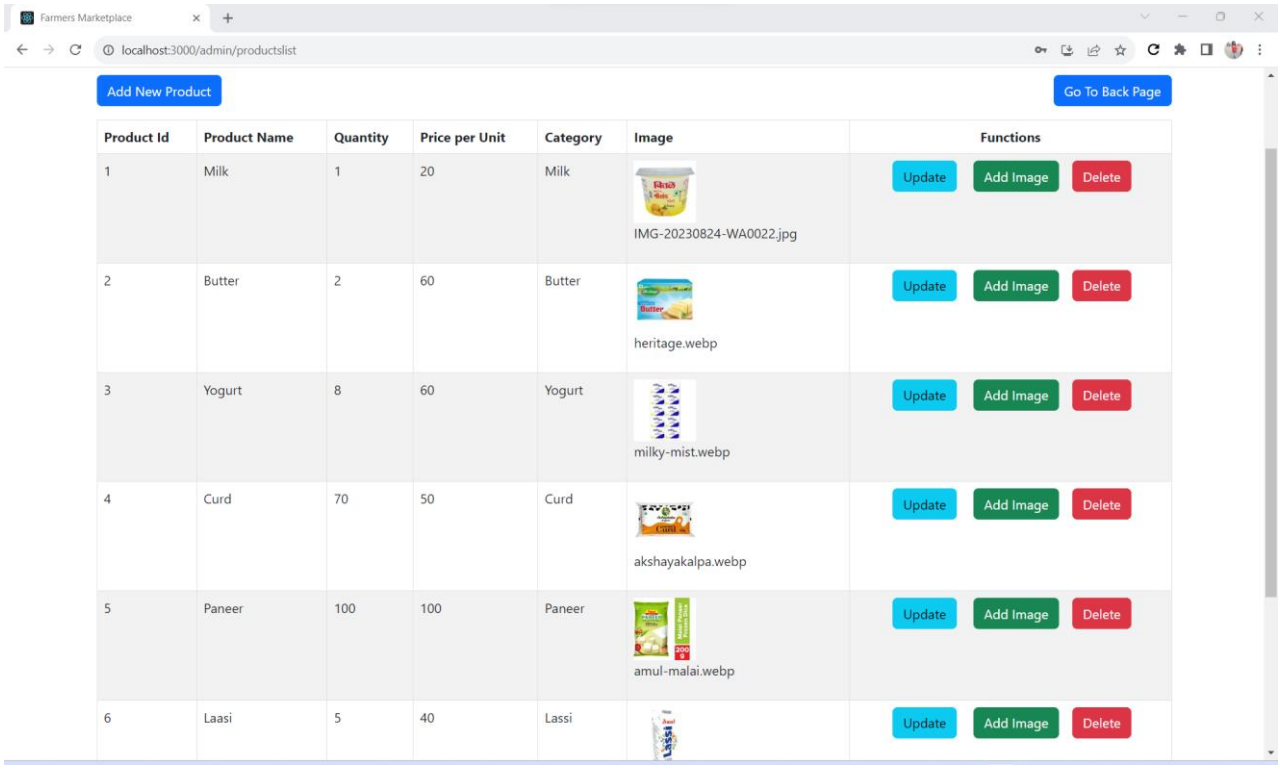
9.3.3 Form for add new Supplier.



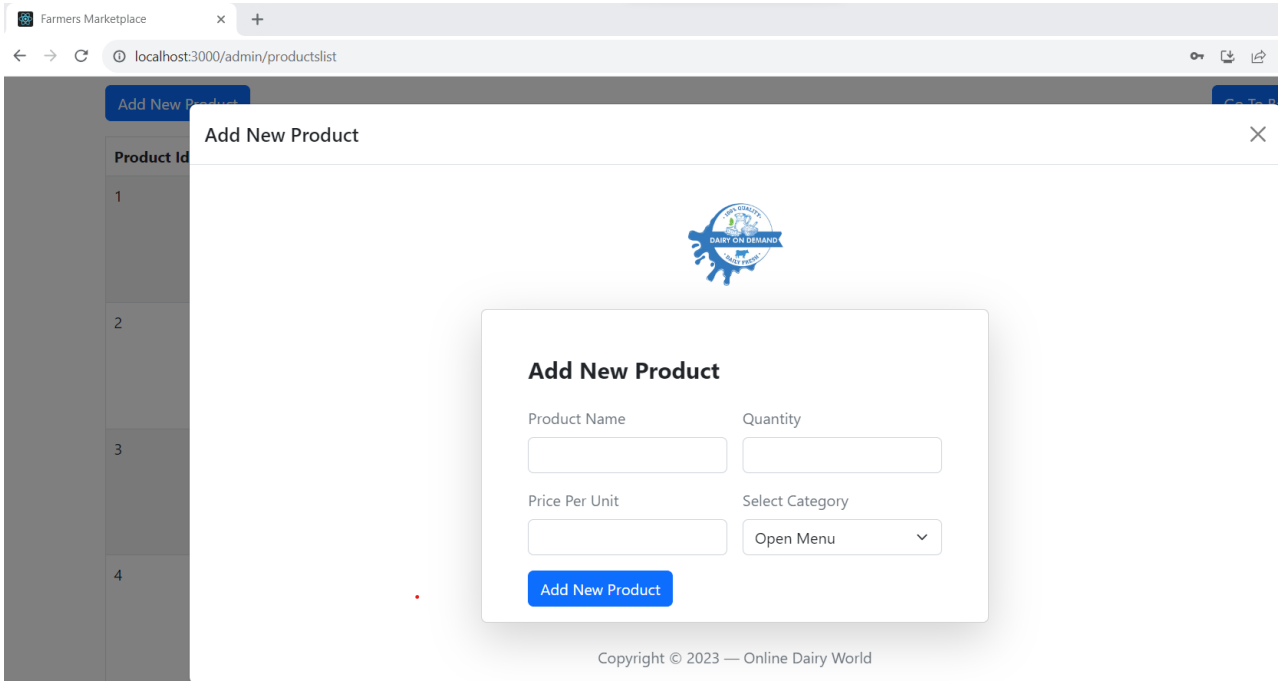
9.3.4 Form for add new Category.



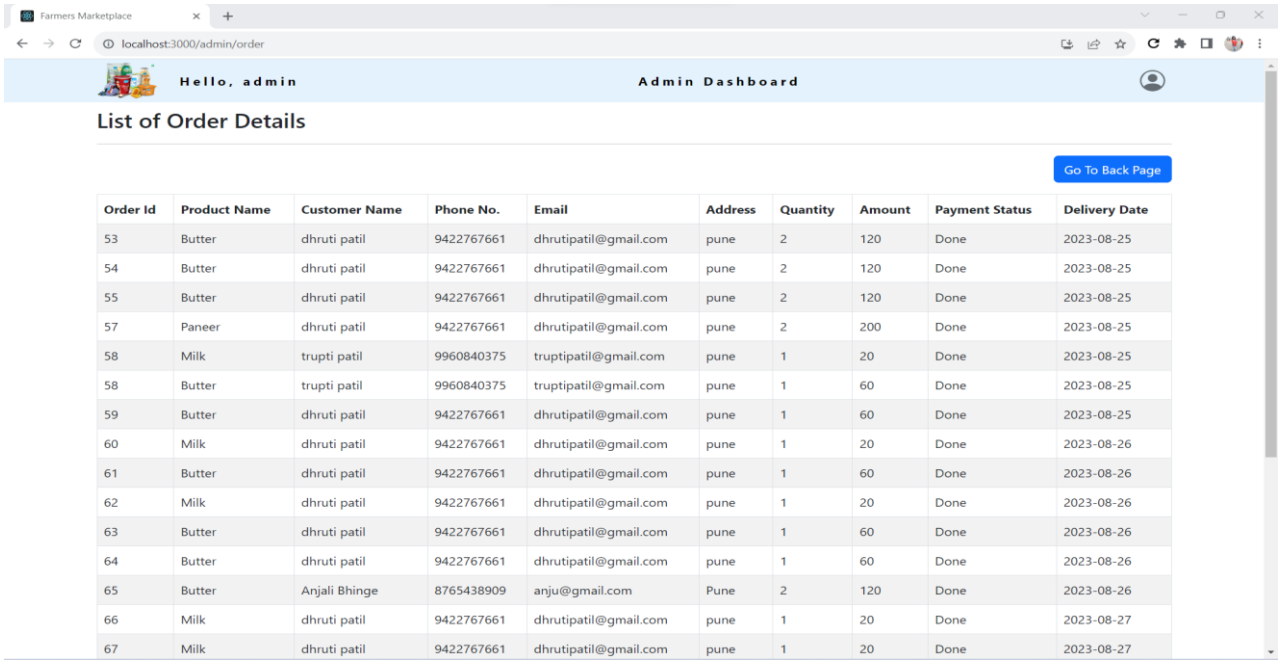
9.3.5 List of all products



9.3.6 Add New Product

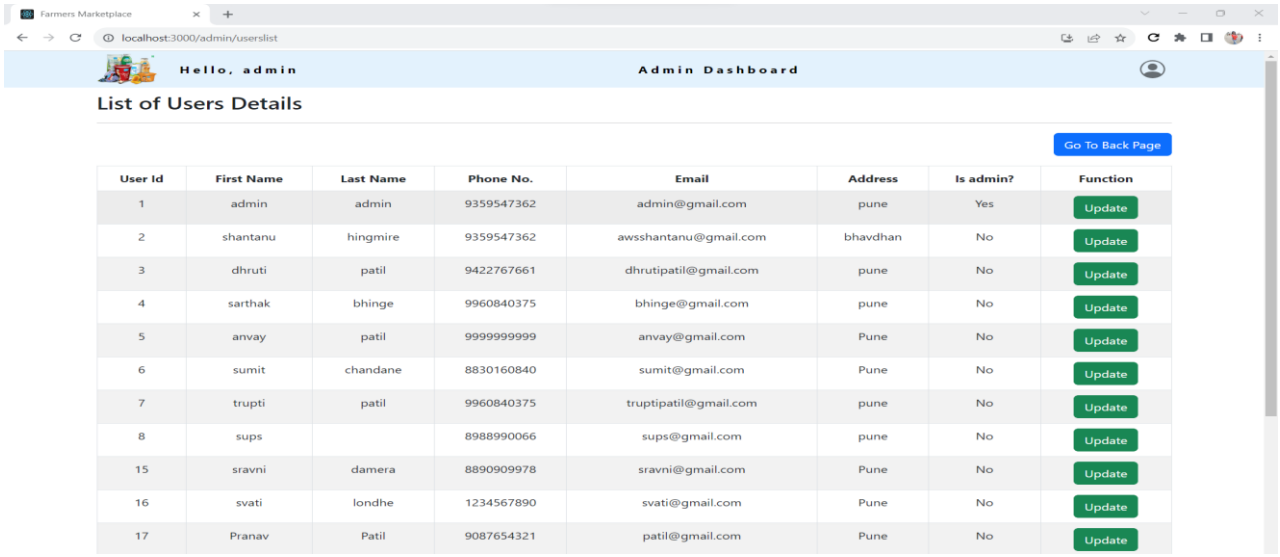


9.3.7 List of Order Details



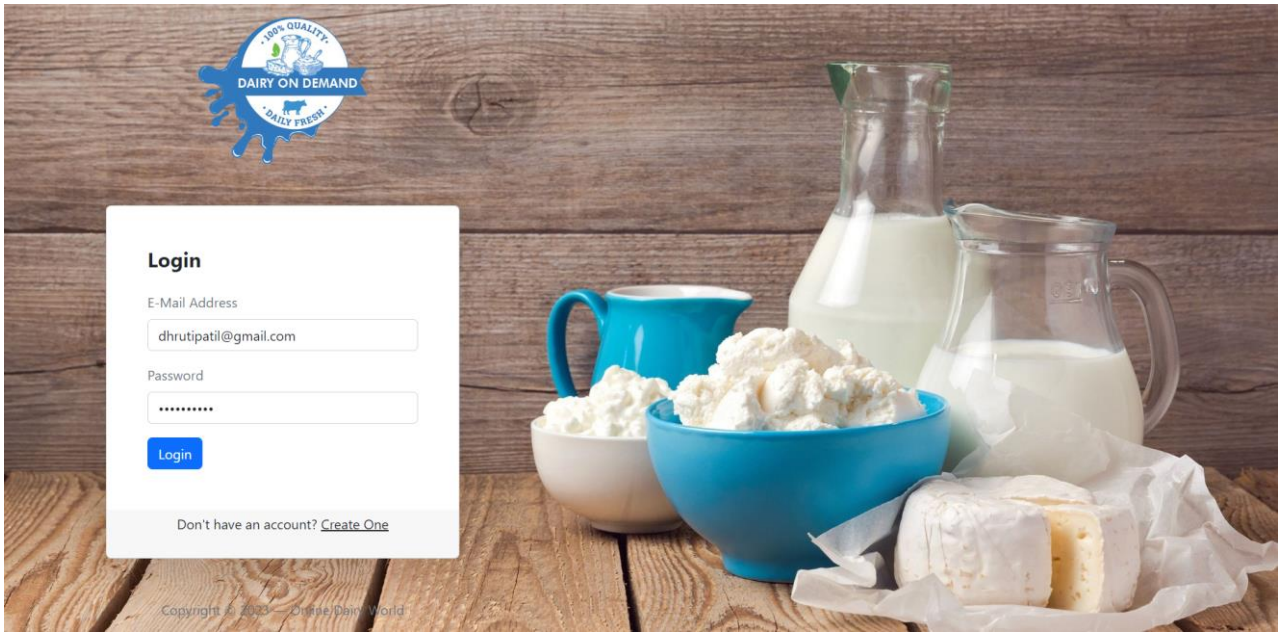
Order Id	Product Name	Customer Name	Phone No.	Email	Address	Quantity	Amount	Payment Status	Delivery Date
53	Butter	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	2	120	Done	2023-08-25
54	Butter	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	2	120	Done	2023-08-25
55	Butter	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	2	120	Done	2023-08-25
57	Paneer	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	2	200	Done	2023-08-25
58	Milk	trupti patil	9960840375	truptipatil@gmail.com	pune	1	20	Done	2023-08-25
58	Butter	trupti patil	9960840375	truptipatil@gmail.com	pune	1	60	Done	2023-08-25
59	Butter	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	60	Done	2023-08-25
60	Milk	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	20	Done	2023-08-26
61	Butter	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	60	Done	2023-08-26
62	Milk	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	20	Done	2023-08-26
63	Butter	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	60	Done	2023-08-26
64	Butter	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	60	Done	2023-08-26
65	Butter	Anjali Bhinge	8765438909	anju@gmail.com	Pune	2	120	Done	2023-08-26
66	Milk	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	20	Done	2023-08-27
67	Milk	dhruti patil	9422767661	dhrutipatil@gmail.com	pune	1	20	Done	2023-08-27

9.3.8 List of Users Details

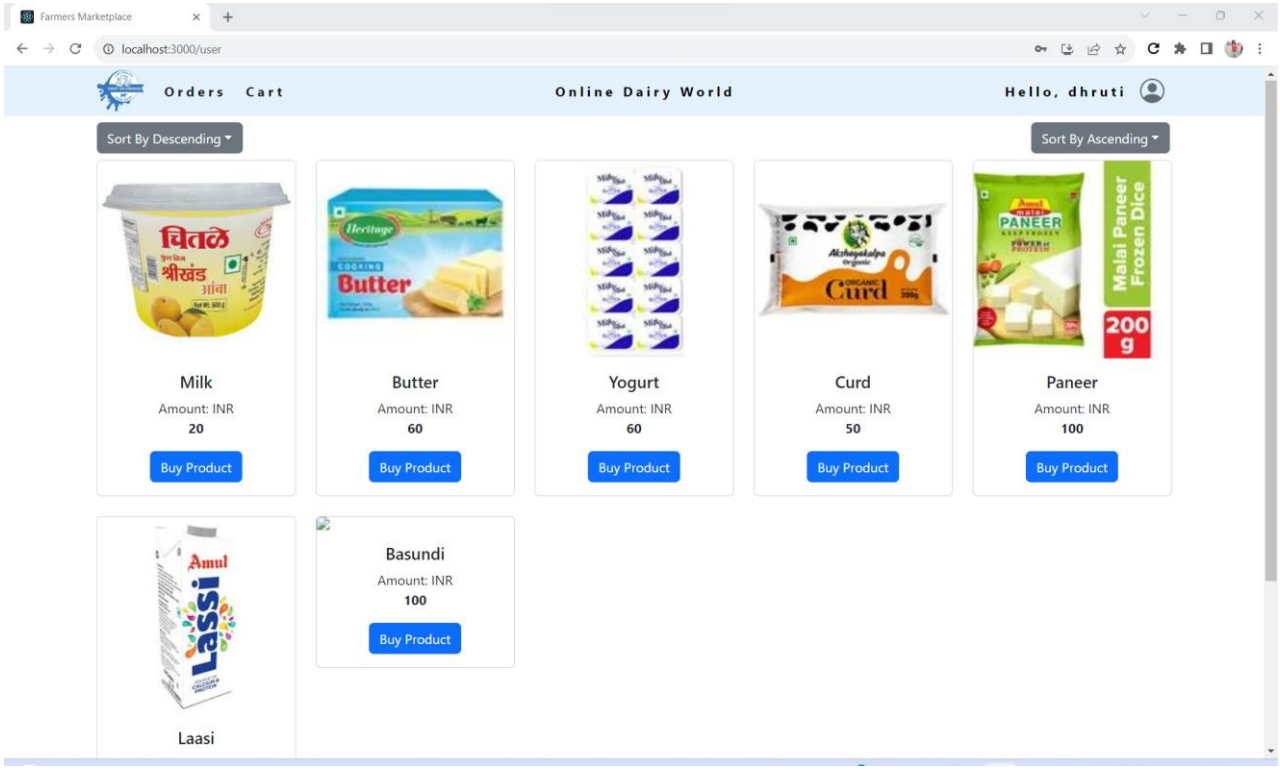


User Id	First Name	Last Name	Phone No.	Email	Address	Is admin?	Function
1	admin	admin	9359547362	admin@gmail.com	pune	Yes	Update
2	shantanu	hingmire	9359547362	awsshantanu@gmail.com	bhavdhan	No	Update
3	dhruti	patil	9422767661	dhrutipatil@gmail.com	pune	No	Update
4	sarthak	bhinge	9960840375	bhinge@gmail.com	pune	No	Update
5	anvay	patil	9999999999	anvay@gmail.com	Pune	No	Update
6	sumit	chandane	8830160840	sumit@gmail.com	Pune	No	Update
7	trupti	patil	9960840375	truptipatil@gmail.com	pune	No	Update
8	sups		8988990066	sups@gmail.com	pune	No	Update
15	sravni	damera	8890909978	sravni@gmail.com	Pune	No	Update
16	svati	londhe	1234567890	svati@gmail.com	Pune	No	Update
17	Pranav	Patil	9087654321	patil@gmail.com	Pune	No	Update

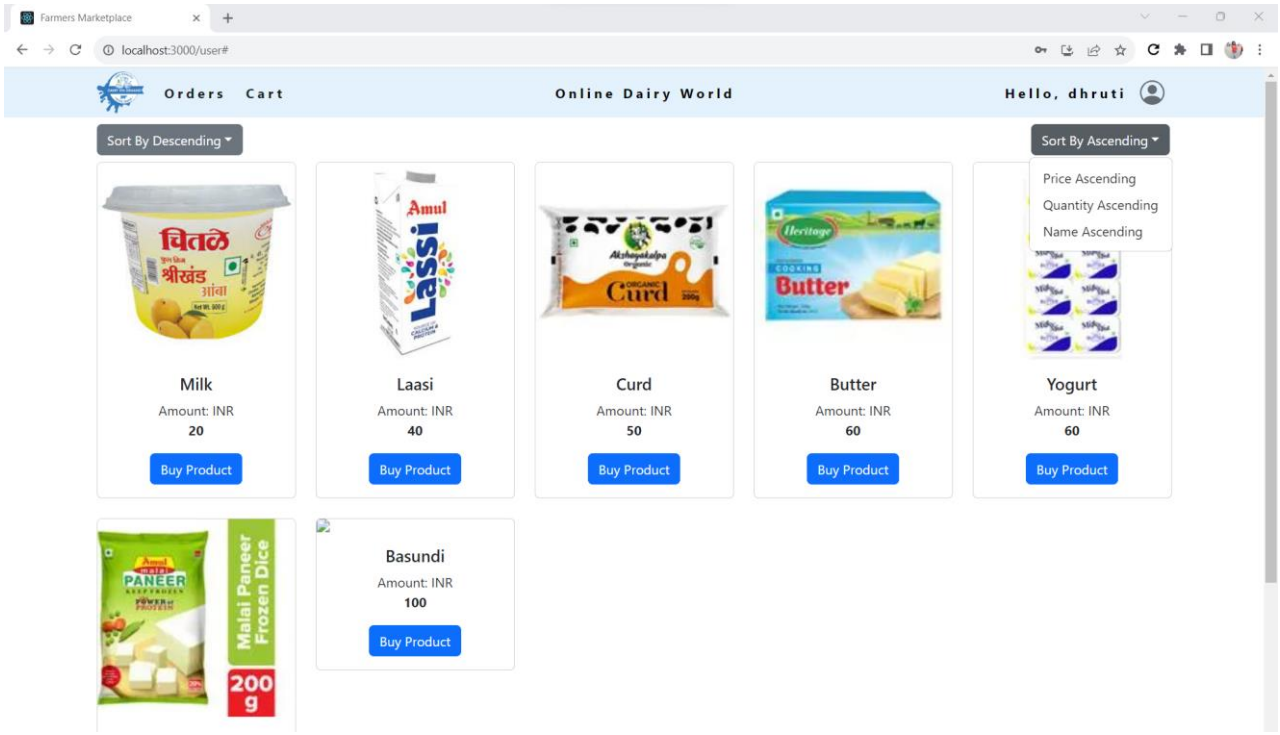
9.4 Buyer Login



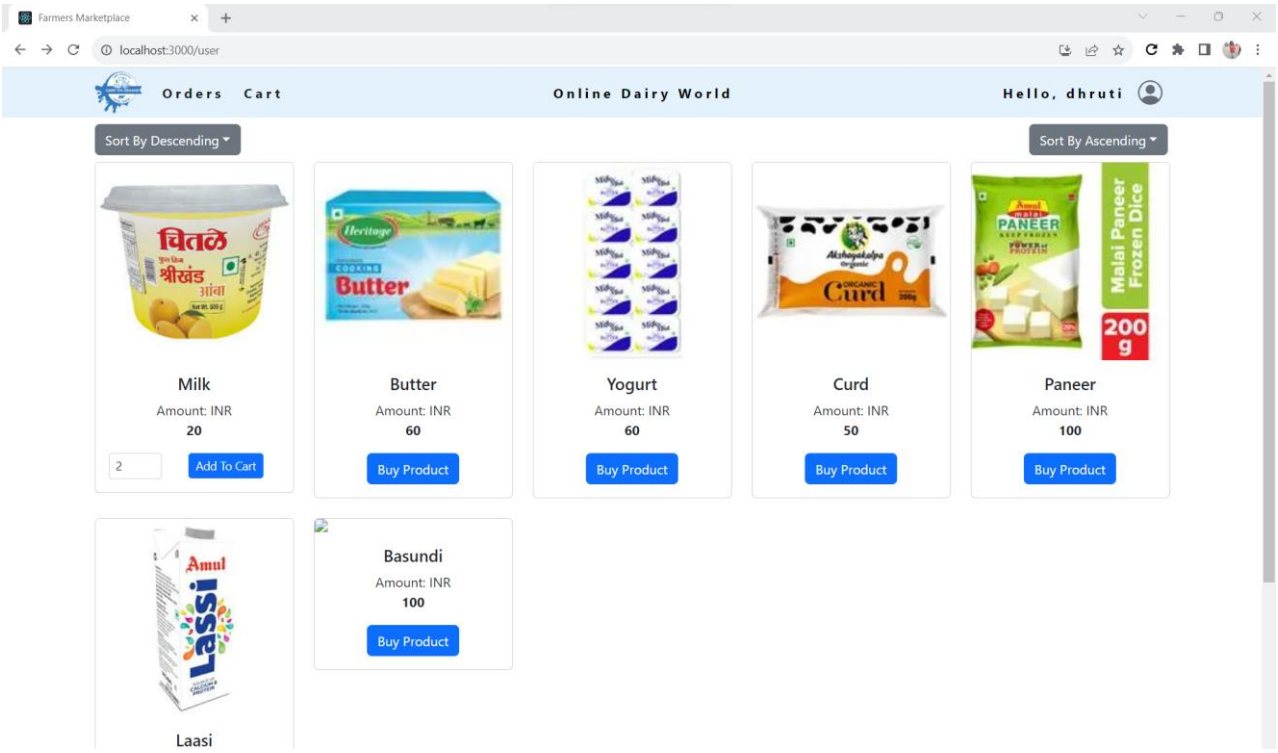
9.4.1 List of Dairy Products



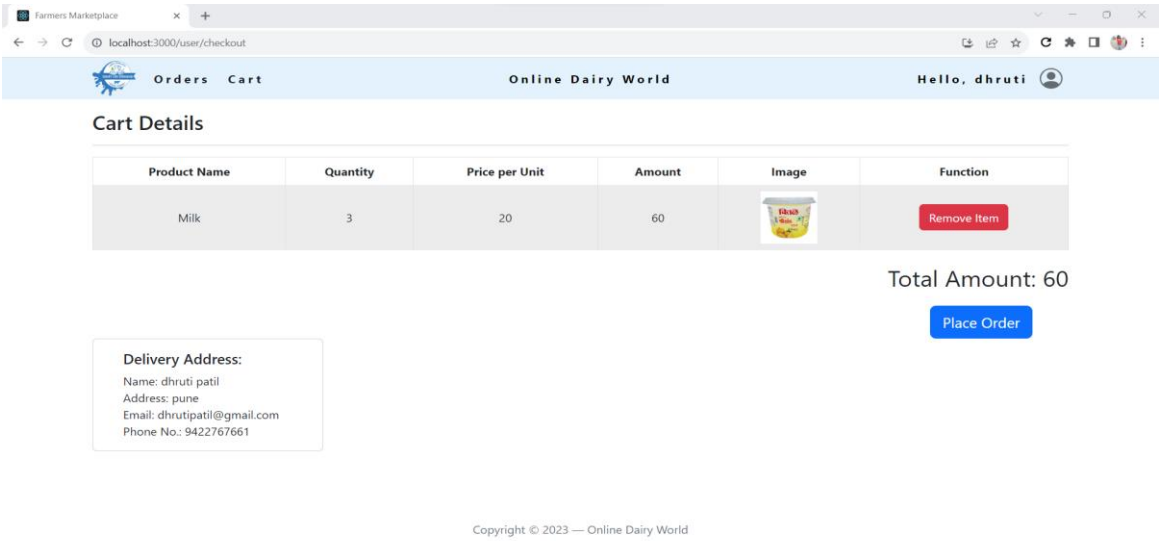
9.4.2 Searching the products by price ascending, quantity ascending, name ascending.



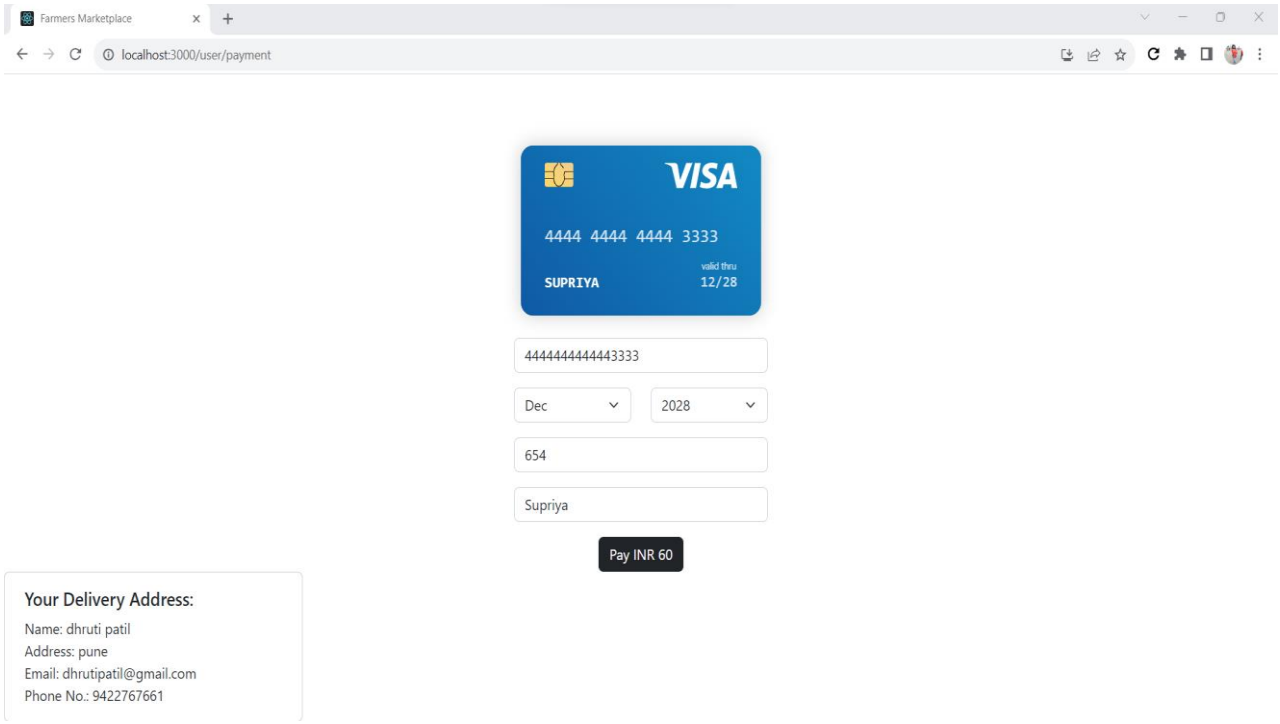
9.4.3 Add to cart product



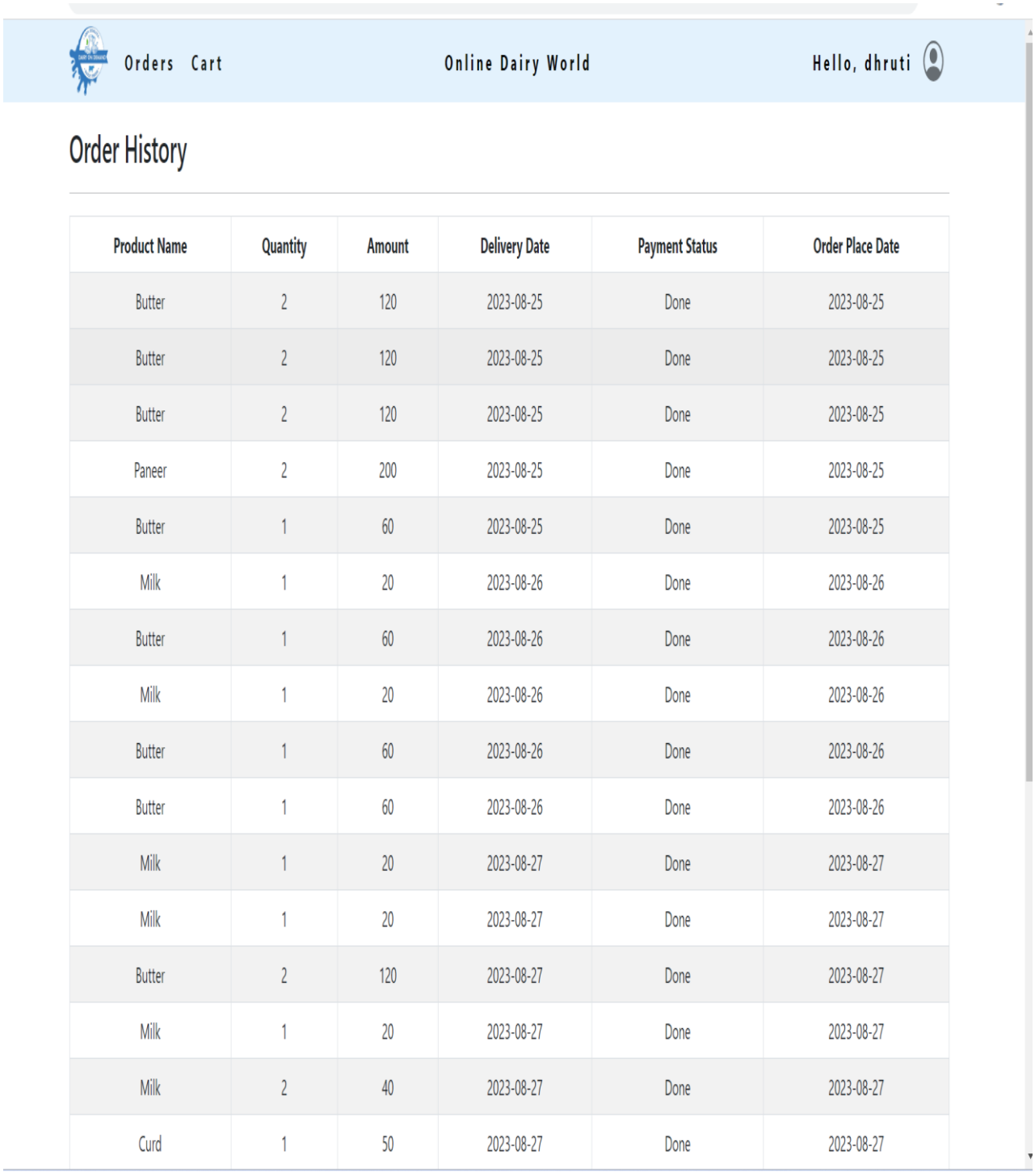
9.4.4 Product added into the Cart and Place the order



9.4.5 Make the Payment



9.4.6 Order Details



Order History

Product Name	Quantity	Amount	Delivery Date	Payment Status	Order Place Date
Butter	2	120	2023-08-25	Done	2023-08-25
Butter	2	120	2023-08-25	Done	2023-08-25
Butter	2	120	2023-08-25	Done	2023-08-25
Paneer	2	200	2023-08-25	Done	2023-08-25
Butter	1	60	2023-08-25	Done	2023-08-25
Milk	1	20	2023-08-26	Done	2023-08-26
Butter	1	60	2023-08-26	Done	2023-08-26
Milk	1	20	2023-08-26	Done	2023-08-26
Butter	1	60	2023-08-26	Done	2023-08-26
Butter	1	60	2023-08-26	Done	2023-08-26
Milk	1	20	2023-08-27	Done	2023-08-27
Milk	1	20	2023-08-27	Done	2023-08-27
Butter	2	120	2023-08-27	Done	2023-08-27
Milk	1	20	2023-08-27	Done	2023-08-27
Milk	2	40	2023-08-27	Done	2023-08-27
Curd	1	50	2023-08-27	Done	2023-08-27

10. Conclusion And Future Scope

- Customers can seamlessly browse through products and place order.
- Customers can select many variety of products to cart such as milk ,cheese, ghee, yogurt, butter and more of various brands .
- Online dairy world website bridge the gap between suppliers and buyers in digital way.
- **Expansion of Product Range:** As the website gains popularity and consumer trust, you can consider expanding the range of dairy products offered, including specialty and organic options.
- **Personalized Recommendations:** Implementing AI-driven algorithms can provide personalized product recommendations based on user preferences and purchase history, enhancing the user experience.
- **Subscription Models:** Introducing subscription plans for regular dairy deliveries can create a loyal customer base and ensure a steady revenue stream.
- **Payment Gateway:** Providing real time transaction in website