

# **MINI PROJECT REPORT**

## **Dairy Management System**

**120A3027 – MOHD. RAFE**

**120A3031 – PRATHAM NANAWARE**

**120A3049 – RUSHIKESH SHINDE**

**120A3054 – VEDANT BOJJAWAR**

**UNDER THE GUIDANCE OF**

**PROF. SMITA MANE**

**SUBMITTED IN PARTIAL FULFILLMENT FOR THE DEGREE OF  
BACHELOR OF ENGINEERING**

**In**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**SIES GRADUATE SCHOOL OF TECHNOLOGY**

**NERUL, NAVI MUMBAI – 400706**

**ACADEMIC YEAR**

**2022– 2023**

# **CERTIFICATE**

This is to certify that this is a bonafide record of Mini Project of the project titled “**Dairy Management System**” carried out by the following students of third year in Information Technology.

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| 2.      | Pratham Nanaware | 120A3031 |
| 3.      | Rushikesh Shinde | 120A3049 |
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The report is submitted in partial fulfillment of the degree course of Bachelor of Engineering in **Information technology**, of University of Mumbai during the academic year 2022-23

## **Internal Guide**

Prof. Smita Mane

## **Head of Department**

Dr.K. Lakshmisudha

## **Principal**

Dr.Atul Kemkar

We have examined this report as per University requirements at SIES Graduate School of Technology, Nerul (E), Navi Mumbai on \_\_\_\_\_.

**Name of External Examiner:** \_\_\_\_\_

**Signature with Date:** \_\_\_\_\_

**Name of Internal Examiner:** \_\_\_\_\_

**Signature with Date:** \_\_\_\_\_

## **ACKNOWLEDGEMENT**

We wish to express our deep sense of gratitude to thank our project guide Prof. Smita Mane for providing timely assistance to our query and guidance. We take this opportunity to thank our HOD. Prof.K.Lakshmisudha and Principal Dr.Atul Kemkar for their valuable guidance and immense support in providing all the necessary facilities.

We would also like to thank the entire faculty of IT Department for their valuable ideas and timely assistance in this project. Last but not the least, we would also like to thank teaching and nonteaching staff members of our college for their support, in facilitating timely completion of mini project.

### **Project Team**

- 1) Mohd. Rafe
- 2) Pratham Nanaware
- 3) Rushikesh Shinde
- 4) Vedant Bojjawar

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## **ABSTRACT**

The Dairy Management System is a web based application works as a simple Dairy Software to maintain daily milk record by registered account members, generate stock and maintain reports. It manages the sales, supplies and inventory of the dairy. It keeps track of all the products, the purchases made during a given period and the inventory of the dairy products. This application is basically managed by the administrator.

The scope of this system is to provide user friendly working environment and output can be more efficiently generated through this. This system provides user friendly interface resulting in knowing each and every usability features of the system.

This system helps in tracking records so that past records can be verified through them and one can make decisions based on the past records. This system completes the work in a very less time resulting in less time consumption and high level of efficiency.

Dairy Management System project has been designed especially for all the information related with dairy products is entered and we can keep track on all the transactions. This project really helps peoples who want to manage dairy activities, like milk booth or dairy shop.

# **1. INTRODUCTION**

Dairy Management System project has been designed especially for all the information related with dairy products is entered and we can keep track on all product transactions.

The Dairy Management System is a web based application works as a simple Dairy Software to maintain daily milk record by registered account members, generate stock and maintain reports.

## **1.1 Motivation**

Our prime Motivation for this project was every small retailer as they can use this application for managing the daily sales, inventory and product details. So, to maximize their efficiency and minimize the time consumption to a greater level, we can help them through modern day desktop application with the help of our project.

## **1.2 OBJECTIVE**

The objective of this program is to automate the process of managing inventory, supplies and sales at a store. It manages the sales, supplies and inventory of the dairy. It keeps track of all the products, the purchases made during a given period and the inventory of the dairy products.

This application is basically managed by the administrator. The administrator can login through the system. The user can check all the purchases made and the inventory of the items at that time. A database is maintained which has the inventory of all the items. This system helps in tracking records so that past records can be viewed through them and one can make decisions based on the past records. This system completes the work in a very less time resulting in less time consumption and high level of efficiency.

The system also keeps track of sales. The user can generate reports for a given time period. This can display all the records regarding the sales that is done during a selected period. It stores all purchase order details and invoice details in respective tables in the database.

The main objective of this software is to automate the complete operations of the Dairy Distributors. They need to maintain hundreds of records. So, this system helps in maintaining records of inventory of all the products and sales.

Also searching should be very faster so they can find required details instantly.

## **2. LITERATURE SURVEY**

1. W. Yanhua and Z. Shaojie, "System Design of Customer Relationship Management System of Small and Medium-Sized Wholesale and Retail Enterprises," 2008 International Symposium on Knowledge Acquisition and Modeling, 2008, pp. 789-793, doi: 10.1109/KAM.2008.38.
2. "ISO/IEC/IEEE International Standard - Systems and software engineering - Engineering and management of websites for systems, software, and services information," in ISO/IEC/ IEEE 23026 First edition 2015-05-15 , vol., no., pp.1-54, 15 May 2015, doi: 10.1109/IEEESTD.2015.7106438.
3. Zhang Mi, Xu Jianjun, Cheng Zunping, Li Yinsheng and Zang Binyu, "A Web service-based framework for supply chain management," Eighth IEEE International Symposium on Object-Oriented Real-Time Distributed Computing (ISORC'05), 2005, pp. 316-319, doi: 10.1109/ISORC.2005.5.



## **2.2 LIMITATION EXISTING SYSTEM**

As we know, Manual system are quite tedious, time consuming and less efficient. So, following are some disadvantages of the old system:

- The manual system requires more time for processing
- It requires more critical work
- The manual system is more error prone
- Difficult to maintain
- Slow data processing
- Less accurate
- Lot of paper work
- Difficult to fetch old records

### 3. PROPOSED SYSTEM

- Proposed System is required. Some of the advantages of proposed system are given below:

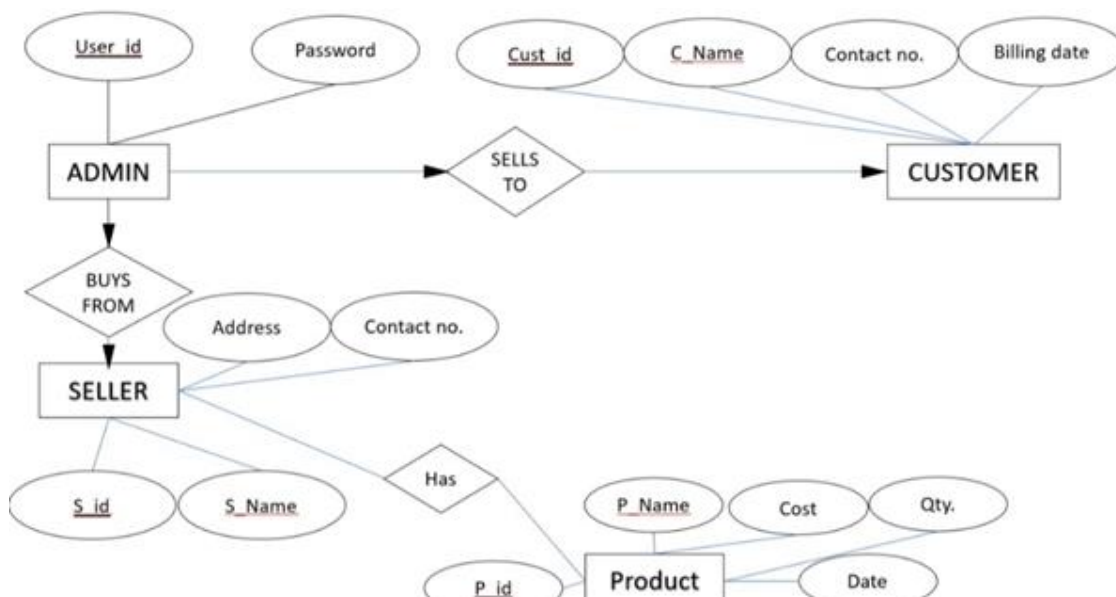
- requires less time for completion of any work.
- It decreases the chances of error.
- It should work smoothly and very fast.
- saving time and manpower.
- It is user friendly and anyone having computer knowledge can handle it easily.
- Suitability for computerized data entry.
- Maintaining Dairy information, Customer information, Milk Rate Information.

#### a. Introduction

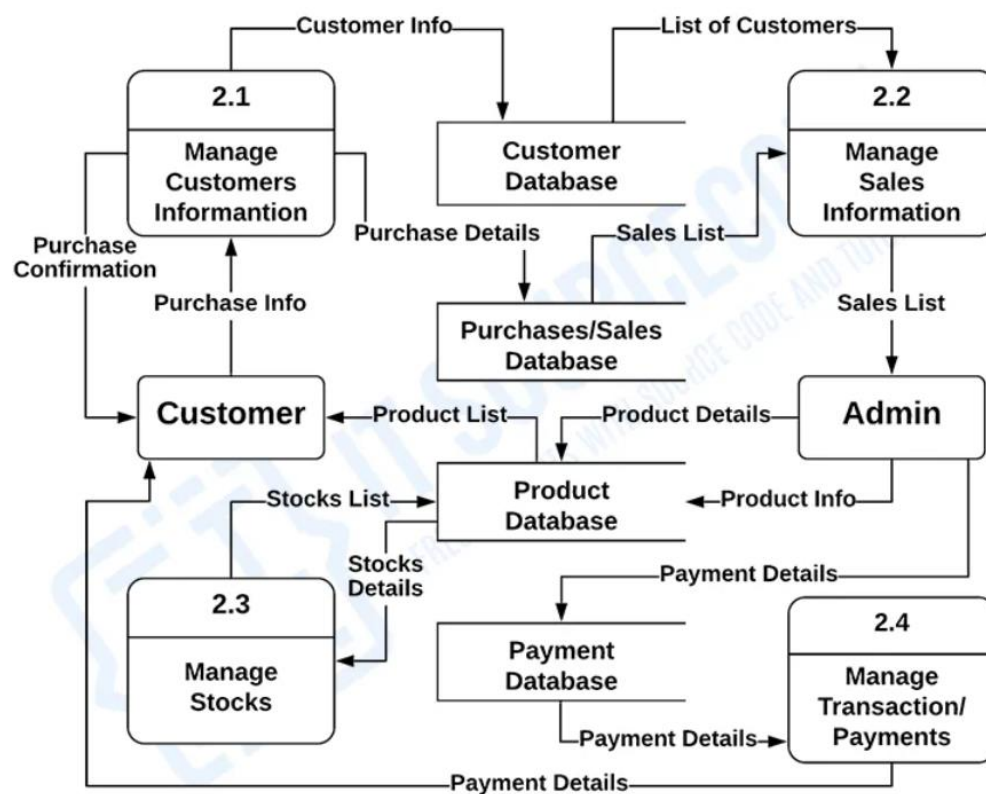
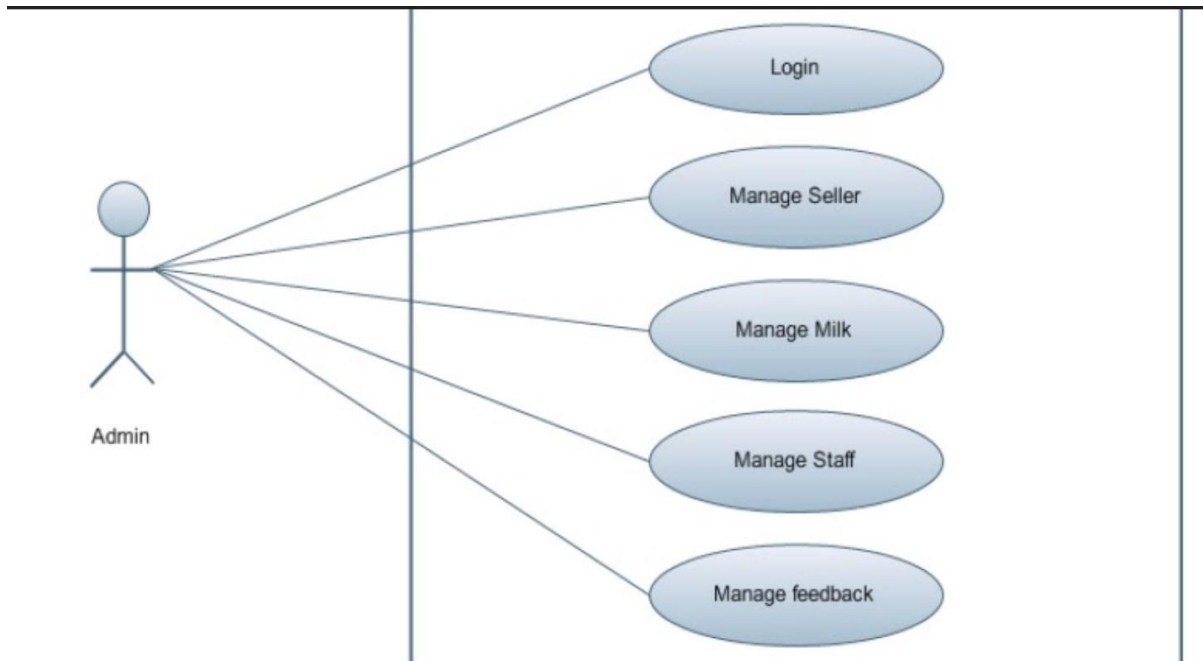
This system helps in tracking records so that past records can be viewed through them and one can make decisions based on the past records. This system completes the work in a very less time resulting in less time consumption and high level of efficiency.

#### b. Architecture/Framework

ER Diagram



## Process design



### 3.4 Details of hardware and software

**Hardware:**

|     |                 |
|-----|-----------------|
| RAM | 2GB             |
| ROM | more than 16 GB |

**Software:**

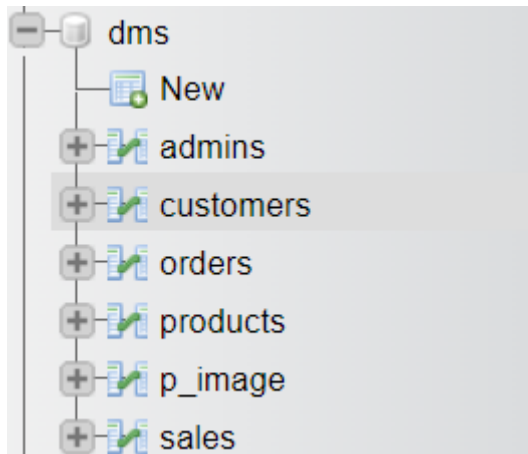
- HTML
- CSS
- JavaScript
- PHP
- MySQL

## EXPERIMENT RESULTS

Backend implementation:

For backend, the software used is MySQL.

List of Tables



Customers



















|                          |                  | id | first_name | last_name | email           | password | phone      | address1 | address2 | state       | city        | pincode |
|--------------------------|------------------|----|------------|-----------|-----------------|----------|------------|----------|----------|-------------|-------------|---------|
| <input type="checkbox"/> | Edit Copy Delete | 6  | Abc        | Def       | Abcsd@gmail.com | 123456   | 9876543210 | Xyz      | Pqr      | K           | M           | 123456  |
| <input type="checkbox"/> | Edit Copy Delete | 9  | Rushikesh  | Shinde    | rds@gmail.com   | 123456   | 987654321  | Abc      | Def      | Maharashtra | Navi Mumbai | 400706  |

↑ ☐ Check all With selected: Edit Copy Delete Export

Products

|                          |                  | p_id | p_name           | p_brand       | p_desc                                  | p_cat     | p_discount | p_quantity | p_cost |
|--------------------------|------------------|------|------------------|---------------|---|-----------|------------|------------|--------|
| <input type="checkbox"/> | Edit Copy Delete | 1    | Cow Milk 1L      | Gowardhan     | Fresh Cow Milk, Quantity-1L.            | Milk      | 5          | 48         | 50     |
| <input type="checkbox"/> | Edit Copy Delete | 2    | Cheese 200gm     | Amul          | Fresh Cheese, Quantity-200gm.           | Cheese    | 5          | 23         | 100    |
| <input type="checkbox"/> | Edit Copy Delete | 3    | Butter 100gm     | Amul          | Fresh Butter, Quantity-100gm.           | Butter    | 5          | 21         | 50     |
| <input type="checkbox"/> | Edit Copy Delete | 4    | Oreo Ice Cream   | Kwality Walls | Oreo Flavour Ice Cream, Quantity-500gm. | Ice-Cream | 5          | 0          | 150    |
| <input type="checkbox"/> | Edit Copy Delete | 5    | Masti Dahi 200gm | Amul          | Quantity-200gm.                         | Yogurt    | 5          | 28         | 20     |
| <input type="checkbox"/> | Edit Copy Delete | 6    | Cow Milk 0.5L    | Amul          | Fresh Cow Milk, Quantity-0.5L.          | Milk      | 5          | 44         | 27     |

P\_image

















































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| <input type="checkbox"/> |  Edit |  Copy |  Delete | 2  | 2    | [BLOB - 9.0 KiB]  |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 3  | 3    | [BLOB - 6.3 KiB]  |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 5  | 4    | [BLOB - 9.3 KiB]  |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 6  | 5    | [BLOB - 6.6 KiB]  |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 7  | 6    | [BLOB - 16.4 KiB] |

## Orders

| order_id                  | product_id | product_name     | product_quantity | total_cost | phone      | date       | ▼ 1 |
|---------------------------|------------|------------------|------------------|------------|------------|------------|-----|
| 20221101010105/9876543210 | 6          | Cow Milk 0.5L    | 1                | 26         | 9876543210 | 31/10/2022 |     |
| 20221101125251/9876543210 | 5          | Masti Dahi 200gm | 1                | 95         | 9876543210 | 31/10/2022 |     |
| 20221031012602/9876543210 | 1          | Cow Milk 1L      | 1                | 48         | 9876543210 | 31/10/2022 |     |
| 20221031012035/9876543210 | 2          | Cheese 200gm     | 1                | 57         | 9876543210 | 31/10/2022 |     |
| 20221031011930/9876543210 | 2          | Cheese 200gm     | 1                | 57         | 9876543210 | 31/10/2022 |     |
| 20221031011930/9876543210 | 1          | Cow Milk 1L      | 1                | 48         | 9876543210 | 31/10/2022 |     |
| 20221101010105/9876543210 | 3          | Butter 100gm     | 1                | 48         | 9876543210 | 31/10/2022 |     |
| 20221030035333/9876543210 | 4          | Oreo Ice Cream   | 4                | 572        | 9876543210 | 30/10/2022 |     |
| 20221030035333/9876543210 | 3          | Butter 100gm     | 1                | 48         | 9876543210 | 30/10/2022 |     |
| 20221030035333/9876543210 | 6          | Cow Milk 0.5L    | 1                | 26         | 9876543210 | 30/10/2022 |     |
| 20221030085524/9876543210 | 4          | Oreo Ice Cream   | 2                | 286        | 9876543210 | 30/10/2022 |     |
| 20221030035333/9876543210 | 1          | Cow Milk 1L      | 3                | 144        | 9876543210 | 30/10/2022 |     |
| 20221030035439/9876543210 | 4          | Oreo Ice Cream   | 4                | 572        | 9876543210 | 30/10/2022 |     |
| 20221030035439/9876543210 | 3          | Butter 100gm     | 1                | 48         | 9876543210 | 30/10/2022 |     |

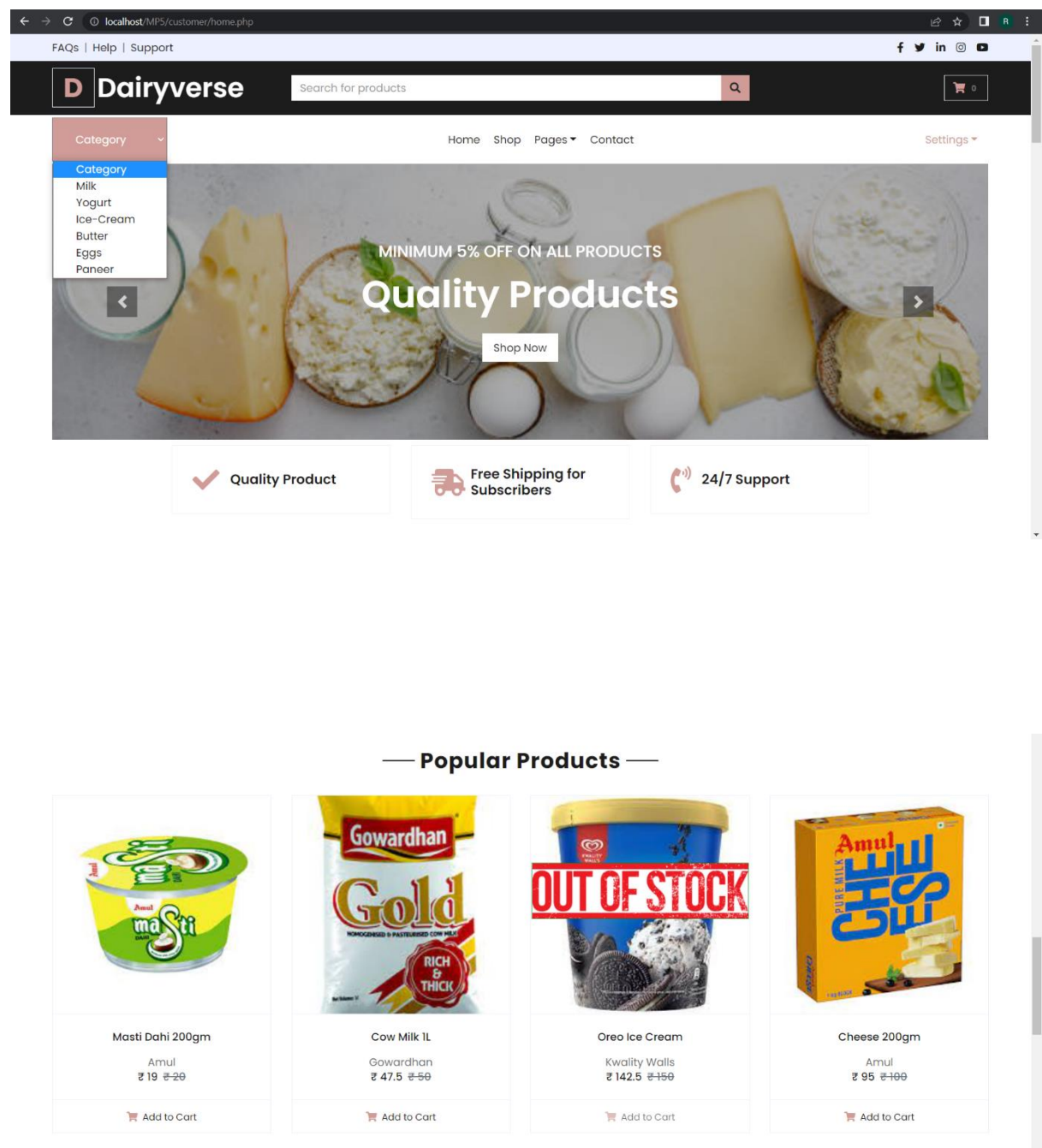
Console

## Sales

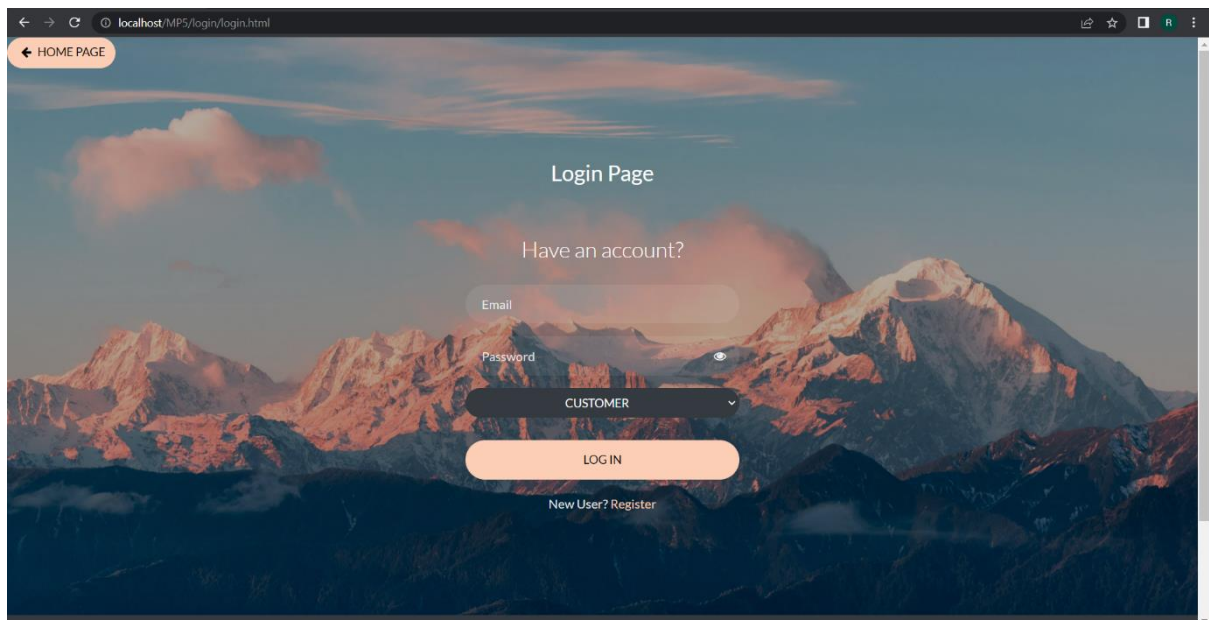
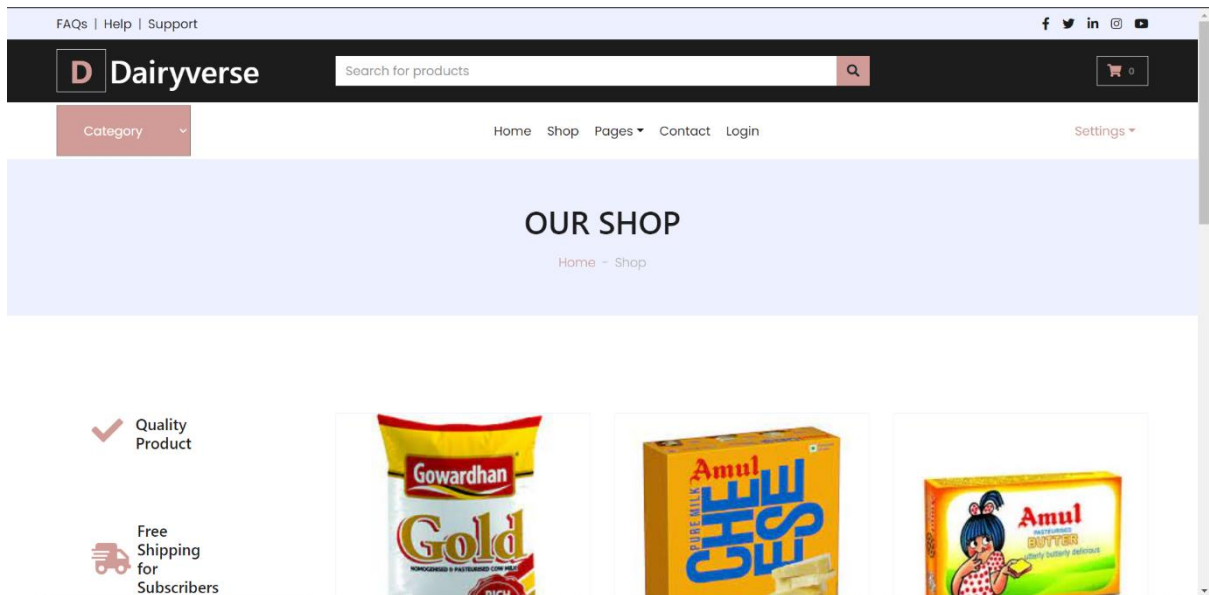
| ← T →                    |  | sales_id | order_id                  | order_cost | order_quantity | phone      | date       |
|--------------------------|--|----------|---------------------------|------------|----------------|------------|------------|
| <input type="checkbox"/> |  Edit  Copy  Delete | 1        | 20221029035910/9876543210 | 143        | 2              | 9876543210 | 29/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 2        | 20221029042904/9876543210 | 143        | 2              | 9876543210 | 29/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 3        | 20221029043223/9876543210 | 296        | 4              | 9876543210 | 29/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 4        | 20221029045102/9876543210 | 249        | 5              | 9876543210 | 29/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 5        | 20221030123434/9876543210 | 345        | 7              | 9876543210 | 29/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 6        | 20221030125245/9876543210 | 48         | 1              | 9876543210 | 29/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 7        | 20221030010923/987654321  | 257        | 3              | 987654321  | 29/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 8        | 20221030034839/9876543210 | 790        | 9              | 9876543210 | 30/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 9        | 20221030035333/9876543210 | 790        | 9              | 9876543210 | 30/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 10       | 20221030035439/9876543210 | 790        | 9              | 9876543210 | 30/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 11       | 20221030035622/9876543210 | 790        | 9              | 9876543210 | 30/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 12       | 20221030035745/9876543210 | 105        | 2              | 9876543210 | 30/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 13       | 20221030035840/9876543210 | 191        | 2              | 9876543210 | 30/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 14       | 20221030085524/9876543210 | 286        | 2              | 9876543210 | 30/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 15       | 20221031011930/9876543210 | 105        | 2              | 9876543210 | 31/10/2022 |
| <input type="checkbox"/> |  Edit  Copy  Delete | 16       | 20221031012035/9876543210 | 57         | 1              | 9876543210 | 31/10/2022 |

Frontend Implementation:

Customer







CUSTOMER REGISTRATION FORM

Name

First Name

Last Name

Email ID

Password

Phone









Phone Number

Address Line 1

Address Line 2

SHOPPING CART

Home - Shopping Cart

| Products  | Price | Quantity | Total | Remove  |
|---|-------|----------|-------|---|
|  Cow Milk 1L   | ₹ 48  | 1        | ₹ 48  |  |
|  Cheese 200gm  | ₹ 95  | 1        | ₹ 95  |  |
|  Cow Milk 0.5L | ₹ 26  | 1        | ₹ 26  |  |
|  Butter 100gm  | ₹ 48  | 1        | ₹ 48  |  |

Coupon Code

Apply Coupon

Cart Summary

Subtotal

₹217.00

Shipping

₹20

Total

₹237

Proceed To Checkout

## CHECKOUT

[Home](#) - Checkout

### Billing Address

First Name

Abc

Last Name

Def

E-mail

Abcsd@gmail.com

Mobile No

9876543210

Address Line 1

Xyz

Address Line 2

Pqr

City

M

State

K

PIN Code

123456

### Order Total





#### Products

|                        |      |
|------------------------|------|
| Cow Milk 1L - 1 Unit   | ₹ 48 |
| Cheese 200gm - 1 Unit  | ₹ 95 |
| Cow Milk 0.5L - 1 Unit | ₹ 26 |
| Butter 100gm - 1 Unit  | ₹ 48 |


|                 |             |
|-----------------|-------------|
| <b>Subtotal</b> | <b>₹217</b> |
| <b>Shipping</b> | <b>₹ 20</b> |

|              |             |
|--------------|-------------|
| <b>Total</b> | <b>₹237</b> |
|--------------|-------------|

### Order Summary

| Products  | Price | Quantity | Total |
|---|-------|----------|-------|
|  Cow Milk 1L   | ₹ 48  | 1        | ₹ 48  |
|  Cheese 200gm  | ₹ 95  | 1        | ₹ 95  |
|  Cow Milk 0.5L | ₹ 26  | 1        | ₹ 26  |
|  Butter 100gm  | ₹ 48  | 1        | ₹ 48  |

|              |             |
|--------------|-------------|
| Subtotal     | ₹217.00     |
| Shipping     | ₹20         |
| <b>Total</b> | <b>₹237</b> |

 Delivery in 15-30min

## CONTACT US

[Home](#) - [Contact](#)

### — Contact For Any Queries —

|                              |
|------------------------------|
| Your Name                    |
| Your Email                   |
| Subject                      |
| Message                      |
| <a href="#">Send Message</a> |

#### Get In Touch

Want to get in touch? We'd love to hear from you. Here's how you can reach us...

#### Store 1

📍 123 Street, Mumbai, India  
✉ [info@example.com](mailto:info@example.com)  
☎ +91 9876543210

#### Store 1

📍 123 Street, Mumbai, India  
✉ [info@example.com](mailto:info@example.com)  
☎ +91 9876543210

[Back](#)

## USER PROFILE

# Hello Abc

This is your profile page. This is the page where you can see and edit your details that are related to this website.

### My account

[Edit](#)

#### USER INFORMATION

Email address

Phone number

First name

Last name







Abc Def

M, India

## PREVIOUS ORDERS

[Home](#) - Previous Orders

### Order Summary

| Date       | Order ID                  | Product   | Quantity | Total |
|------------|---------------------------|---|----------|-------|
| 04/11/2022 | 20221104102230/9876543210 |  Butter 100gm  | 1        | ₹ 48  |
| 04/11/2022 | 20221104102230/9876543210 |  Cow Milk 0.5L | 1        | ₹ 26  |
| 04/11/2022 | 20221104102230/9876543210 |  Cheese 200gm  | 1        | ₹ 95  |
| 04/11/2022 | 20221104102230/9876543210 |  Cow Milk 1L   | 1        | ₹ 48  |

## Admin

Dairy Management System

[Logout](#)

Welcome!

#### Products

Allows admin to view, manage and edit product details.



#### Customers

Allows admin to view, manage and monitor customer details.



#### Orders

Allows admin to view all the previous completed order details.



#### Sales

The purpose of POS is to allow admin to monitor and record all inventory and transactions .



#### Statistics

The value or amount of the total sales of company's products for a particular period.



DAIRY MANAGEMENT SYSTEM

Hope u like this app <3

© 2022 Copyright: DMS.com

## Product

Add Product



View Products



Update Product



## DAIRY MANAGEMENT SYSTEM

Hope u like this app &lt;3

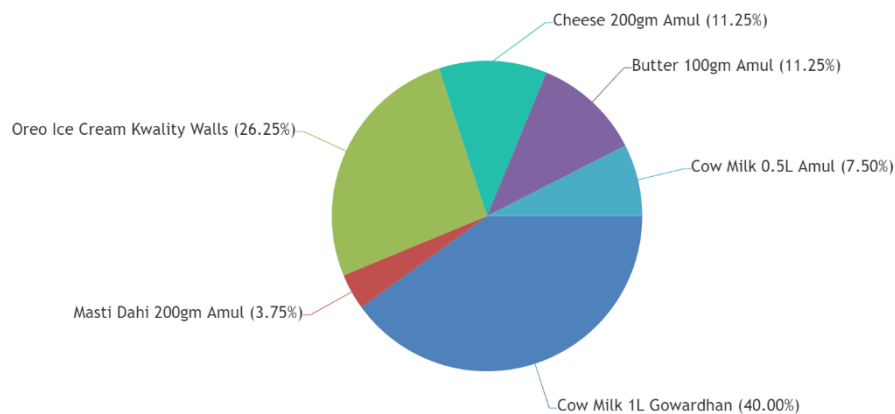
© 2022 Copyright: DMS.com

## Enter Product Details :

|  |  |  |
|--|--|--|
| Product ID:<br><input type="text" value="Product ID"/>             | Product Name:<br><input type="text" value="Product Name"/>         | Product Brand:<br><input type="text" value="Product Brand"/> |
| Product Desc:<br><input type="text" value="Product Desc"/>         | Product Category:<br><input type="text" value="Product Category"/> |  |
| Product Discount:<br><input type="text" value="Product Discount"/> | Product Quantity:<br><input type="text" value="Product Quantity"/> | Product Price:<br><input type="text" value="Product price"/> |
| <input type="button" value="Choose File"/> No file chosen          | <input type="button" value="Submit"/>                              |  |

[Back](#)

## Data Based on Products Sold



## Sales :

| Sales ID | Order ID                  | Order Total | Quantity | Phone      | Date       |
|----------|---------------------------|-------------|----------|------------|------------|
| 1        | 20221029035910/9876543210 | 143         | 2        | 9876543210 | 29/10/2022 |
| 2        | 20221029042904/9876543210 | 143         | 2        | 9876543210 | 29/10/2022 |
| 3        | 20221029043223/9876543210 | 296         | 4        | 9876543210 | 29/10/2022 |
| 4        | 20221029045102/9876543210 | 249         | 5        | 9876543210 | 29/10/2022 |
| 5        | 20221030123434/9876543210 | 345         | 7        | 9876543210 | 29/10/2022 |
| 6        | 20221030125245/9876543210 | 48          | 1        | 9876543210 | 29/10/2022 |
| 7        | 20221030010923/987654321  | 257         | 3        | 987654321  | 29/10/2022 |
| 8        | 20221030034839/9876543210 | 790         | 9        | 9876543210 | 30/10/2022 |
| 9        | 20221030035333/9876543210 | 790         | 9        | 9876543210 | 30/10/2022 |

## Update Product Details :

Search By Product Id

Search

Product ID:

1

Product Name:

Cow Milk 1L

Product Brand:

Gowardhan

Product Desc:

Fresh Cow Milk, Quantity-1L

Product Category:

Milk

Product Discount:

5

Product Quantity:

48

Product Price:

50



Update

## **5. APPLICATIONS**

- Login For Admin
- Update Rates
- Manage Clients
- Manage Stock
- Details of Purchase
- Reports of sales
- Statistics
- Place Orders



## **6. CONCLUSION**

Dairy Management System is Developed in HTML, CSS, JavaScript, PHP and MySQL. Dairy Management System as a software can help many small retailers by increasing their efficiency in management of the data and decrease the time consumption and with help of user-friendly environment, it enables user for easy use of all the features. Its GUI is made to work simple and can be beneficial to understand.

## **7. REFERENCES**

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- ▶ <https://www.php.net/manual/en/book.mysql.php>
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