NITTE | NMAM INSTITUTE OF TECHNOLOGY

(Deemed to be University)

(An off-Campus Institution of NITTE (DEEMED TO BE UNIVERSITY),MANGALORE)

Department of Master of Computer Application

A Project Work On
DAIRY MANAGEMENT SYSTEM

Second Semester task, regards to the subject

Dot Net Framework & C#

For the Academic Year
2023-2024

Submitted by

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**1.TITLE :**

DAIRY MANAGEMENT SYSTEM – A Web Application

2.INTRODUCTION :

The Milk Dairy Management System is a comprehensive software solution designed to streamline and optimize the operations of dairy farms and milk processing facilities. It offers functionalities such as milk collection tracking, inventory management, billing, and customer management. By integrating various processes into a centralized platform, this system enhances efficiency, ensures accuracy in record-keeping, and facilitates better decision-making for dairy businesses.

Main Objectives of this system are :

1. Efficient Milk Collection Tracking : Optimizing Milk Collection Tracking for Dairy Farms
2. Streamlined Inventory Management : Simplifying Dairy Bill & Inventory Management for Seamless Operations
3. Enhanced Customer Management : Elevating Customer Management for Improved Dairy Business Relations

3.ARCHITECTURE DIAGRAM :
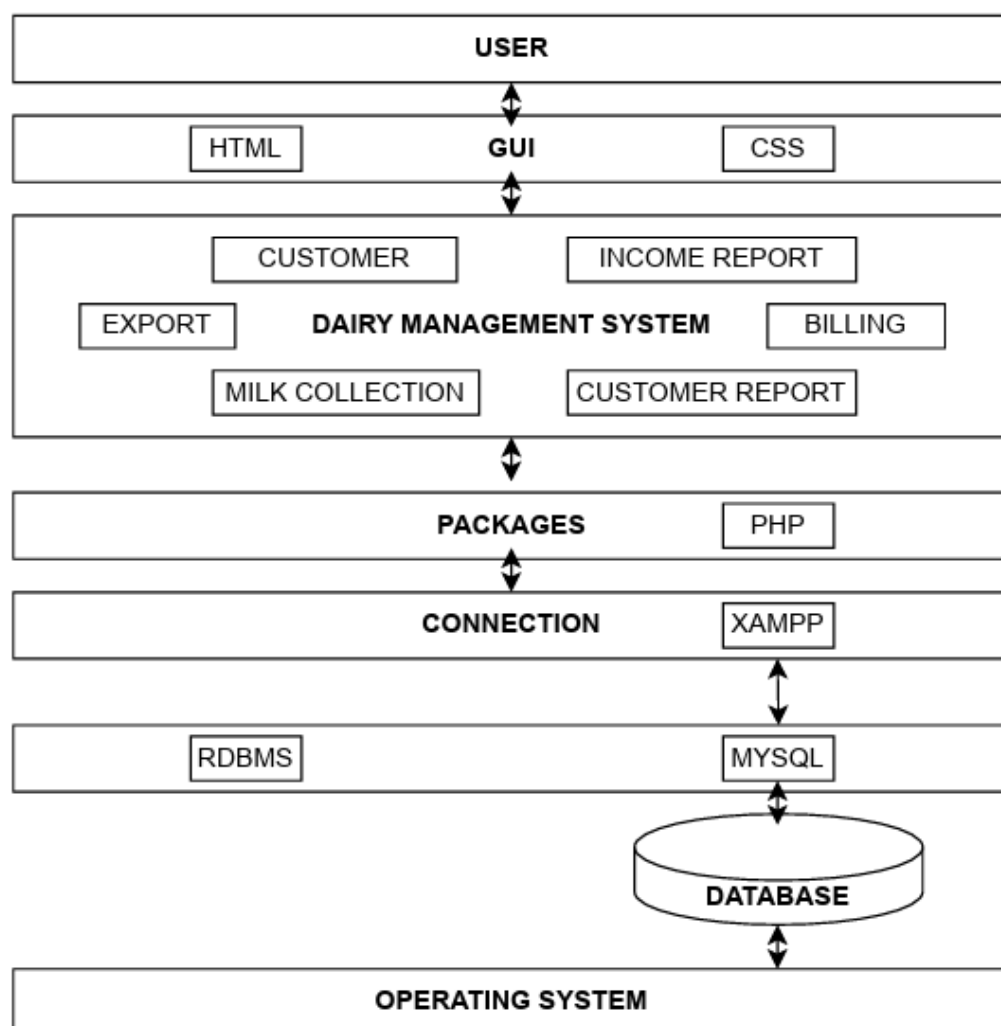
4.TABLES :

Login Table :

#	Name	Type	Collation	Attributes	Null	Default
1	user 🔑	varchar(20)	latin1_swedish_ci		No	None
2	password	varchar(20)	latin1_swedish_ci		No	None

Customer Table :

#	Name	Type	Collation	Attributes	Null	Default
1	ssn 🔑	int(11)			No	None
2	name	varchar(20)	latin1_swedish_ci		No	None
3	address	varchar(20)	latin1_swedish_ci		No	None
4	type	varchar(11)	latin1_swedish_ci		No	None

Collection Table :

#	Name	Type	Collation	Attributes	Null	Default
1	date 🔑	date			No	None
2	time 🔑	varchar(20)	latin1_swedish_ci		No	None
3	ssn 🔑🔑	int(11)			No	None
4	type 🔑	varchar(20)	latin1_swedish_ci		No	None
5	qty	double			No	None
6	fat	double			No	None
7	rate	double			No	None
8	total	double			No	None

Bratechart Table :

#	Name	Type	Collation	Attributes	Null	Default
1	bfat 🔑	double			No	None
2	brate	double			No	None

Cratechart Table :

#	Name	Type	Collation	Attributes	Null	Default
1	cfat 🔑	double			No	*None*
2	crate	double			No	*None*

Export Table :

#	Name	Type	Collation	Attributes	Null	Default
1	liters	int(20)			No	*None*
2	location	varchar(50)	utf8mb4_general_ci		No	*None*
3	date	date			No	*None*

Stock Table :

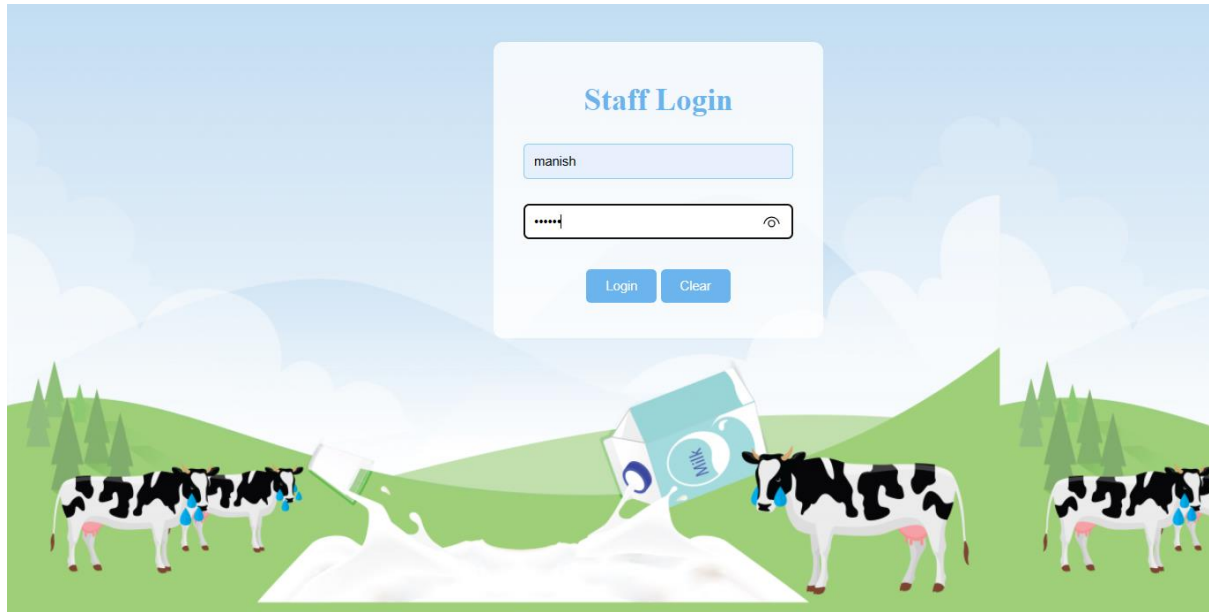| #	Name	Type	Collation	Attributes	Null	Default
1	total_qty	double			Yes	0

5.TECHNOLOGIES USED

- ➢ **Front End : HTML, CSS**
- ➢ **Backend : PHP**
- ➢ **Database : MySQL**

6.MODULES

6.1 Login Page: A process for authenticating users into a system.

6.2 Landing Page: Provides an overview or dashboard of the system upon login.

6.3 Add Customer: Functionality for adding new customers to the system.

6.4 Milk Collection: Module for recording and managing milk collection activities.

6.5 Export Milk : Feature for exporting collected milk data from the system.

6.6 Customer Bill: Generates bills or invoices for specified customer based on their usage or purchases.

6.7 Customer Report: Provides detailed reports or analytics on all customer

6.8 Income Report: Generates reports detailing the income generated by the system over a specific period.

6.1 Login Page

6.2 Landing Page

6.3 Add Customer

CUSTOMER

ID	Name	Address	Milk Type
ID is Auto Generated			Buffalo

Back Insert Reset Print

Customer No.	Name	Address	Milk Type
9	aaa bbbccccccccc	mulki	Buffalo
8	aa	bb	Cow
7	boss	bajaigoli	Buffalo
6	Jithesh	Yermal	Cow
5	Manish	mulki	Buffalo
0	Manish Shettigar	kochi	Buffalo

6.4 Milk Collection

DAILY MILK COLLECTION

DATE	TIME	CUSTOMER ID	QTY/LTR	FAT
dd - mm - yyyy	Morning	0		

Back Print Insert

DATE	TIME	CUSTOMER ID	MILK TYPE	QTY/LTR	FAT	RATE	TOTAL
2023-04-01	Morning	5	Buffalo	23	766	45	3015
2024-04-01	Morning	5	Buffalo	41	6	45	135
2024-04-04	Evening	6	Cow	41	6	45	135
2024-04-29	Evening	6	Cow	12	3	0	0
2024-05-03	Evening	6	Cow	36	0	45	360
2024-05-03	Evening	8	Cow	78	2	45	3510
2024-05-11	Morning	7	Buffalo	67	23	45	3015
2024-05-14	Morning	9	Buffalo	33	3	45	1485
2024-05-17	Evening	8	Cow	67	2	45	3015
2024-05-17	Morning	8	Cow	45	2	45	2025
2024-05-30	Morning	6	Cow	233	4	45	10485

6.5 Export Milk

EXPORT MILK

Total Liters of Milk Available: 24

Liters to Export:

Export Location:

Export Back Print

6.6 Customer Bill

CUSTOMER BILL

Select Customer ID: 0 From Date: dd - mm - yyyy To Date: dd - mm - yyyy Generate Back Print

SL No	CUSTOMER ID	CUSTOMER NAME	MILK TYPE	TOTAL MILK in LTR	TOTAL RUPEES
1	5	Manish	Buffalo	70	3150
Grand Total Rupees					3150

6.7 Customer Report

CUSTOMER REPORT

CUSTOMER ID	CUSTOMER NAME	ADDRESS	MILK TYPE
0	Manish Shettigar	kochi	Buffalo
5	Manish	mulki	Buffalo
6	Jithesh	Yermal	Cow
7	boss	bajaigoli	Buffalo
8	aa	bb	Cow

Back Print

6.8 Income Report

INCOME REPORT

From Date: dd-mm-yyyy   To Date: dd-mm-yyyy   Calculate   Back   Print

Date	Time	User ID	Total
2023-04-01	Morning	5	3015
2024-04-01	Morning	5	135
2024-04-04	Evening	6	135
2024-05-03	Evening	6	360
Total Income : 3645			

7.CONCLUSION & FUTURE ENHANCEMENT

The expected outcome for this project is a streamlined and efficient dairy management system that optimizes milk collection, inventory control, and customer relations while enhancing overall operational effectiveness.

Future enhancements of Dairy Management Systems may integrate IoT for real-time monitoring, employ machine learning for predictive analytics, and adopt blockchain for supply chain transparency. User-friendly interfaces and mobile applications could also be prioritized for increased accessibility and efficiency, ensuring the sustainability and competitiveness of the dairy industry.