

Dairy Express App

Submitted in partial fulfillment of the requirements of

PG Diploma in Advanced Computing

By

- 1. Ashwini Bhagwat Sonawane- 210943420021**
- 2. Himadri Rajubhai Mohite - 210943420031**
- 3. Kartik Shivshankar Gupta - 210943420035**
- 4. Nikhil Popat Darade – 210943420049**
- 5. Nikita Ghanshyam Patil – 210943420051**
- 6. Shubham Ajay Patil - 210943420079**



**Centre for Development of Advanced
Computing**

Mumbai

**September-2021
CERTIFICATE**

This is to certify that the project entitled “Dairy Express App”

is a bonafide work of **Ashwini Bhagwat Sonawane- (210943420021), Himadri Rajubhai Mohite (210943420031), Kartik Shivshankar Gupta (210943420035), Nikhil Popat Darade (210943420049), Nikita Ghanshyam Patil (210943420051), Shubham Ajay Patil (210943420079)** submitted to C-DAC Mumbai in partial fulfillment of the requirement for the award of the Post Graduate Diploma in Advanced Computing.

Mr. Zakir Hussine

Project Guide

ABSTRACT

This Dairy Express App project will basically be an easy-to-use web application that will allow customers to easily purchase and order products for delivery. It is basically for providing a platform for registering users, categories, products, managing stocks and orders and an end-to-end system from order-to –delivery-to –payment services.

This project presents a theoretical framework for Dairy Products Store, it discussed about ordering dairy products items from our need .After Ordering, the details are processed and a delivery person is assigned for carrying out the delivery available in that region. The Order goes through various stages like “PLACED, PACKING, READY, OUT_FOR_DELIVERY, DELIVERED & CANCELED”.

This project discussed the tool and technology used in developing the proposed system (the system has a front end by REACT to display the content structure and a back end of database using MySQL and Spring Boot i.e. J2EE). A number of development methodologies were discussed and why one of the methodologies was chosen for this project. Methods used to gather the requirement specification was also discussed and how the researcher will use this as a guideline in developing the proposed system.

INDEX

1	INTRODUCTION	
	1.1 Introduction	6
2	PRODUCT OVERVIEW AND SUMMARY	
	2.1 Purpose	7
	2.2 Scope	8
	2.3 User Classes and Characteristics	8
	2.4 Technologies Used	9
3	REQUIREMENTS	
	3.1 Functional Requirements	9
	3.1.1 Use case for Administrator.	10
	3.1.3 Use case for Customer. .	11
	3.1.4 Use case for Employee.	12
4	PROJECT DESIGN	
	4.1 Data Model	14
	4.1.1 ER-Design	14
	4.1.2 Class Design	15

	4.1.3 Database Design	16
5	PROJECT SCREENSHOTS	17
6	CONCLUSION	27

LIST OF TABLES

SECTION	TABLE LIST	PAGE
1	USER	16
2	ADDRESS	16
3	CART	16
4	CATEGORIES	17
5	ORDER_DETAILS	17
6	ORDERS	17
7	PAYMENTS	17
8	PRODUCTS	17
9	STOCK	17

LIST OF FIGURES

SECTION	TABLE TITLE	PAGE
1	UML for Admin	4
2	UML for Customer	5
3	UML for Employee	6
4	Class Diagram	6
5	ER Diagram	7

1.INTRODUCTION TO PROJECT

The web based “Dairy Express” project is an attempt to stimulate the basic concepts of Online dairy products store. The system enables the customer to do the things such as search for Products category wise, choose products based on description and add that product into cart.

The system provides you details about product. If user want to buy product, he must have registered account.

The system shows the product that are available or that are in stock, the system displays price, quantity, availability of product to user as well as employees of store

Here we provided products by Company wise that allows customer to choose a particular product easily. The product which are not in stock, user cannot add that products into cart. If the products are available then the system allows the user to add product into cart.

To place order system, ask user to select the address and payment

mode. If address is not provided the user can't place order, User have to specify the address before placing order. After selecting address and payment mode user can place order and the same updates will be done in database.

The system has admin who can add new employees or can remove employees, also admin can add or can remove products. Also, he can see the availability of products. Admin can change other employees Role “Admin”.

The System have employee also who can perform tasks like add

or remove products. Also, employee can add delivery person. Employee can edit product details.

2.PROJECT OVERVIEW AND SUMMARY

PURPOSE

The purpose of this project is based on the delivery of dairy products at your doorstep. This application will provide you a convenient and hassle-free service which is taken care by us. The Dairy Express App project will basically be an easy-to-use web application that will allow customers to easily purchase and order products for delivery .It is basically for providing a platform for registering users, categories, products, managing stocks and orders

SCOPE

- ✓ Small and medium scale store, have to manage data about customers, services offered to them.
- ✓ It is difficult for small scale businesses to maintain data for longer time as they are using paper-based system.

- ✓ Customers also need to find nearest store which provide authentic service.
- ✓ Using this system, they will be able to maintain customer and services data.
- ✓ Also, multiple services centers which are using the same system will be able to synchronize their work.
- ✓ We are also solving the problem from customer's end by making ease of choice. They can choose the products from different category and from different brands

USER CLASSES AND CHARACTERISTICS

In this software, there is an Admin. Admin can add new Employees which is also another part of system. Admin can see stock and sales. The admin user can edit Employee details. Employees can add Delivery person for delivery of orders. Employees can see order list and order status. Employee can add new category of products. Customer can use the software for registering to the system. Customer can purchase different products and can place order.

TECHNOLOGIES USED

MySQL

React- JS

Spring Boot

REQUIREMENTS

FUNCTIONAL REQUIREMENTS

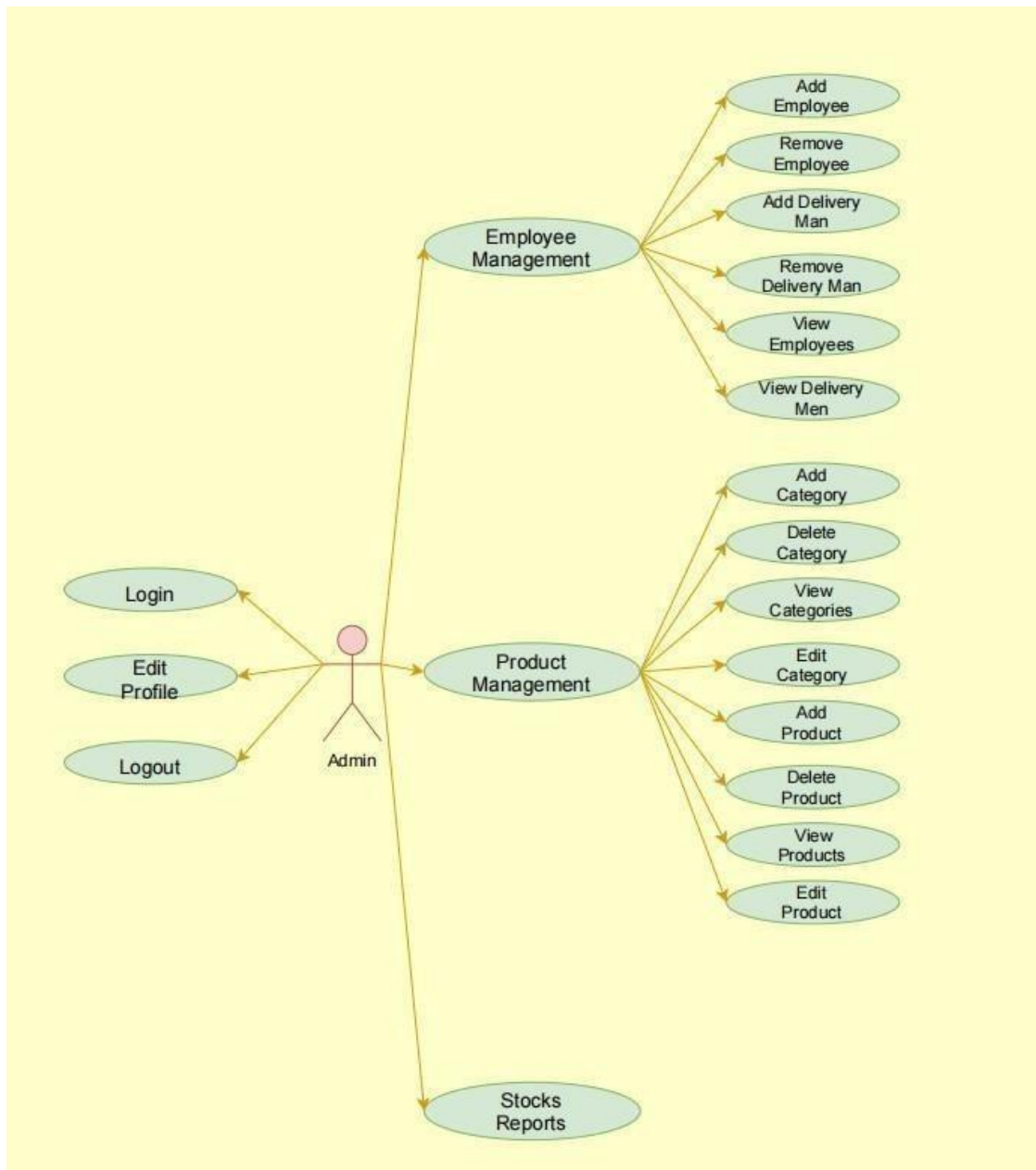
The major functionality of this product is divided into three categories.

- Administrative Functions.
- Employee Functions.
- Customer Functions.

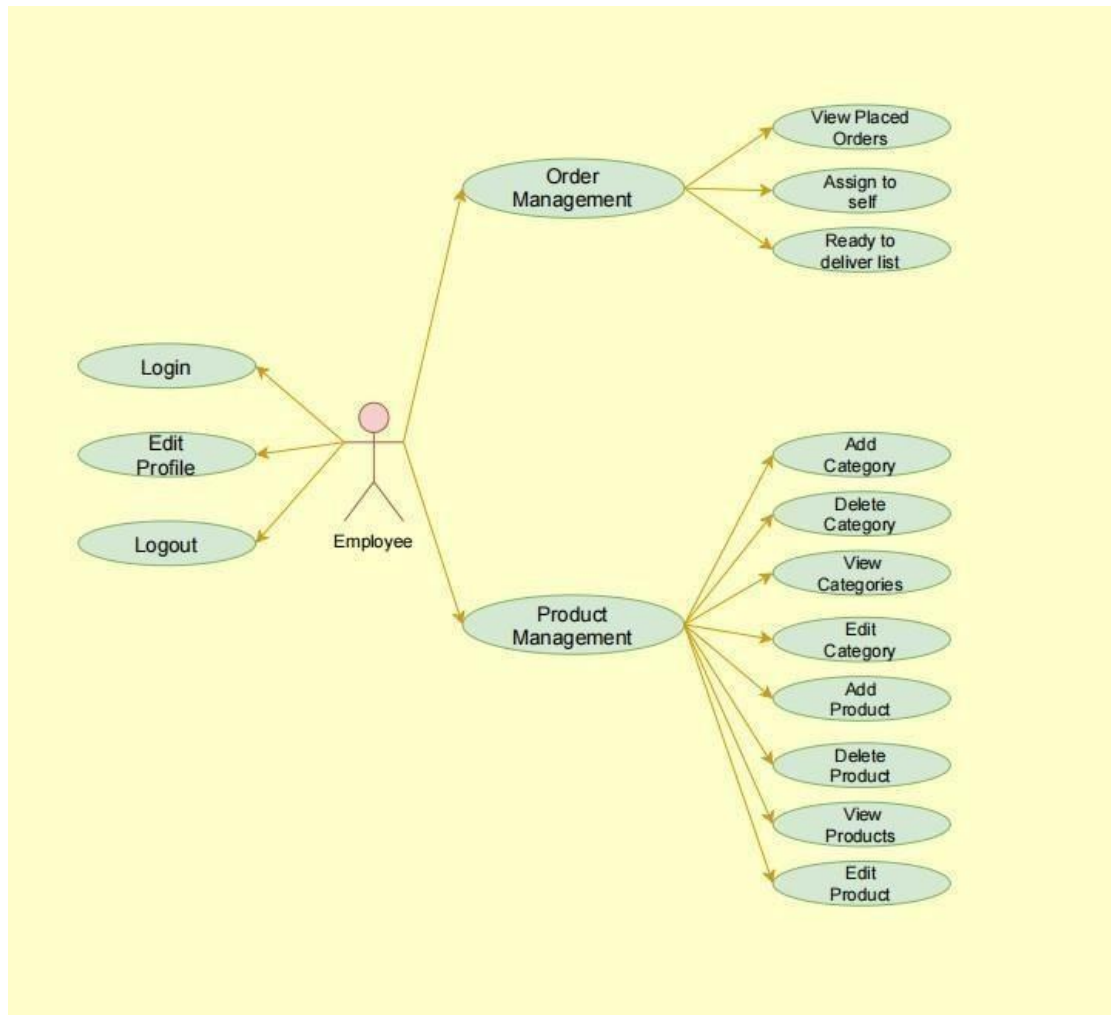
In this application each and every user must have their own Email ID and Password, using these Email ID and Password only they can directly enter into their corresponding Login forms.

System analysis will be performed to determine if it is feasible to design information based on policies and plans of the organization and on user requirements and to eliminate the weaknesses of the present system.

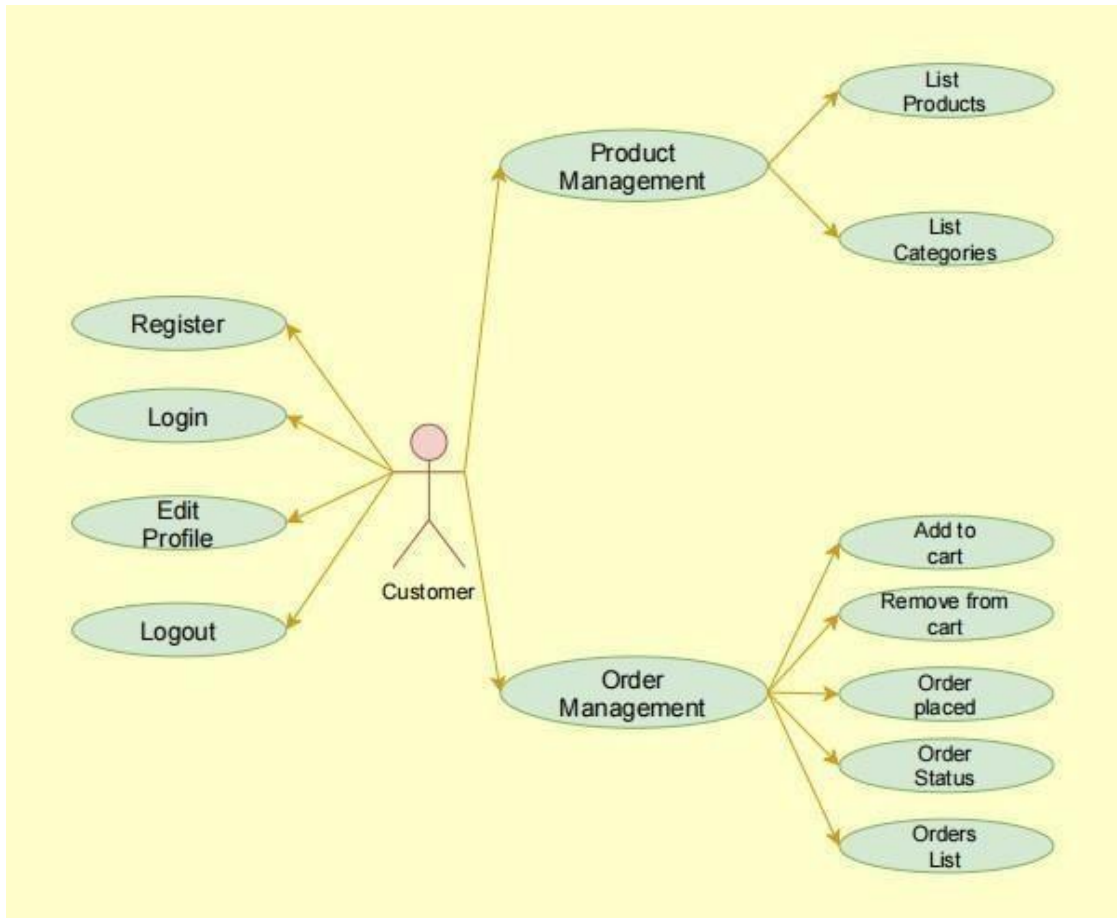
Administrative Function



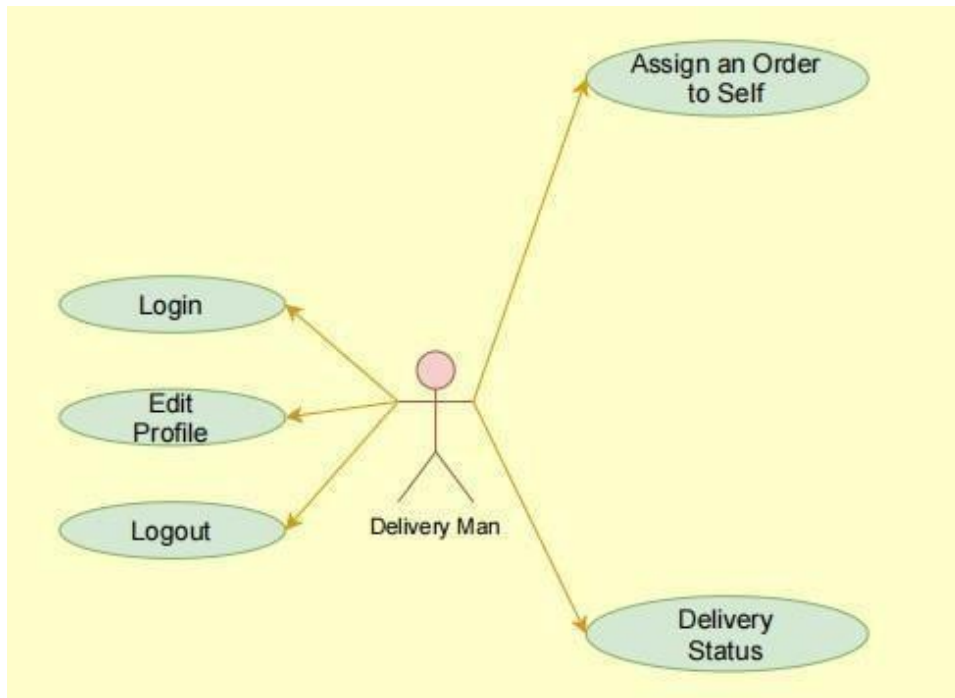
Employee Function



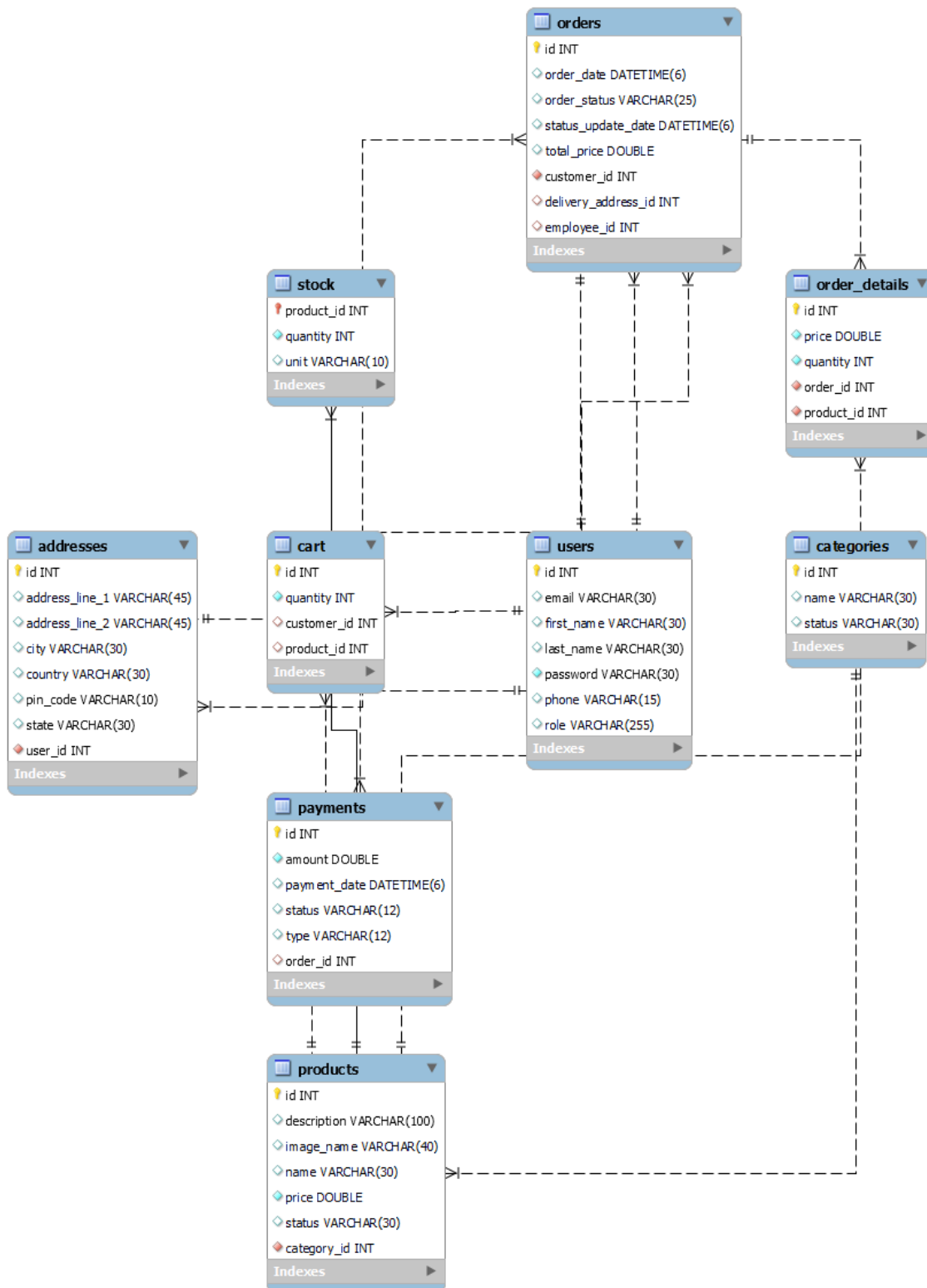
Customer Function



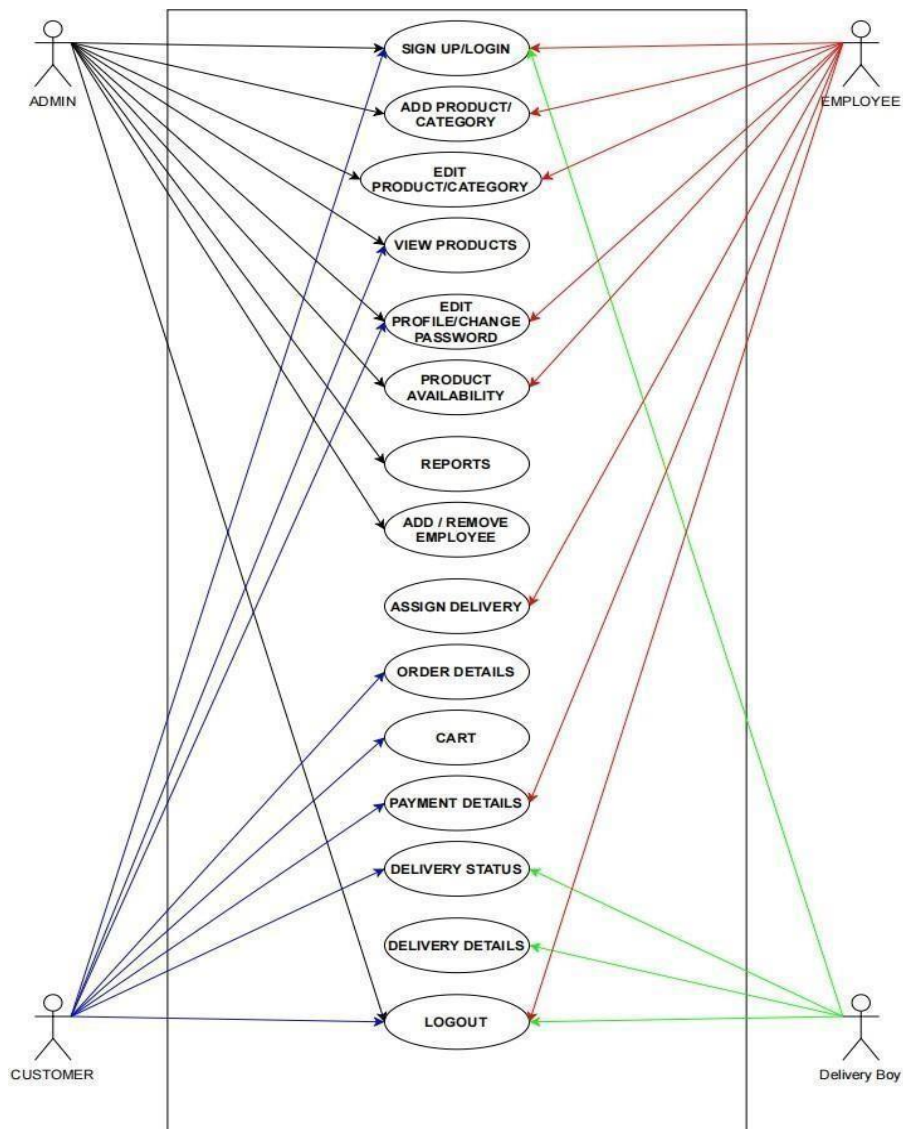
Delivery Function



ER-DIAGRAM



USE-CASE



DATABASE DESIGN

USER

Field	Type	Null	Key	Default	Extra
id	Int	No	PRI	NULL	auto_increment
email	varchar(30)	Yes	UNI	NULL	
First_name	varchar(30)	Yes		NULL	
Last_name	varchar(30)	Yes		NULL	
password	varchar(30)	No		NULL	
phone	varchar(15)	Yes		NULL	
role	varchar(255)	Yes		Null	

Addresses

Field	Type	Null	Key	Default	Extra
id	Int	No	PRI	NULL	auto_increment
address_line_1	varchar(30)	Yes	UNI	NULL	
address_line_2	varchar(30)	Yes		NULL	
city	varchar(30)	Yes		NULL	
country	varchar(30)	No		NULL	
Pin_code	varchar(15)	Yes		NULL	
state	varchar(255)	Yes		Null	
User_id	Int	No	MUL	NULL	

CART

Field	Type	NULL	Key	Default	Extra
id	Int	NO	PRI	NULL	auto_increment

quantity	Int	NO		NULL	
customer_id	Int	YES	MUL	NULL	
Product_id	Int	YES	MUL	NULL	

Categories

Field	Type	NULL	Key	Default	Extra
id	Int	NO	PRI	NULL	auto_increment
name	varchar(30)	YES		NULL	
status	Varchar(30)	YES		NULL	

Products

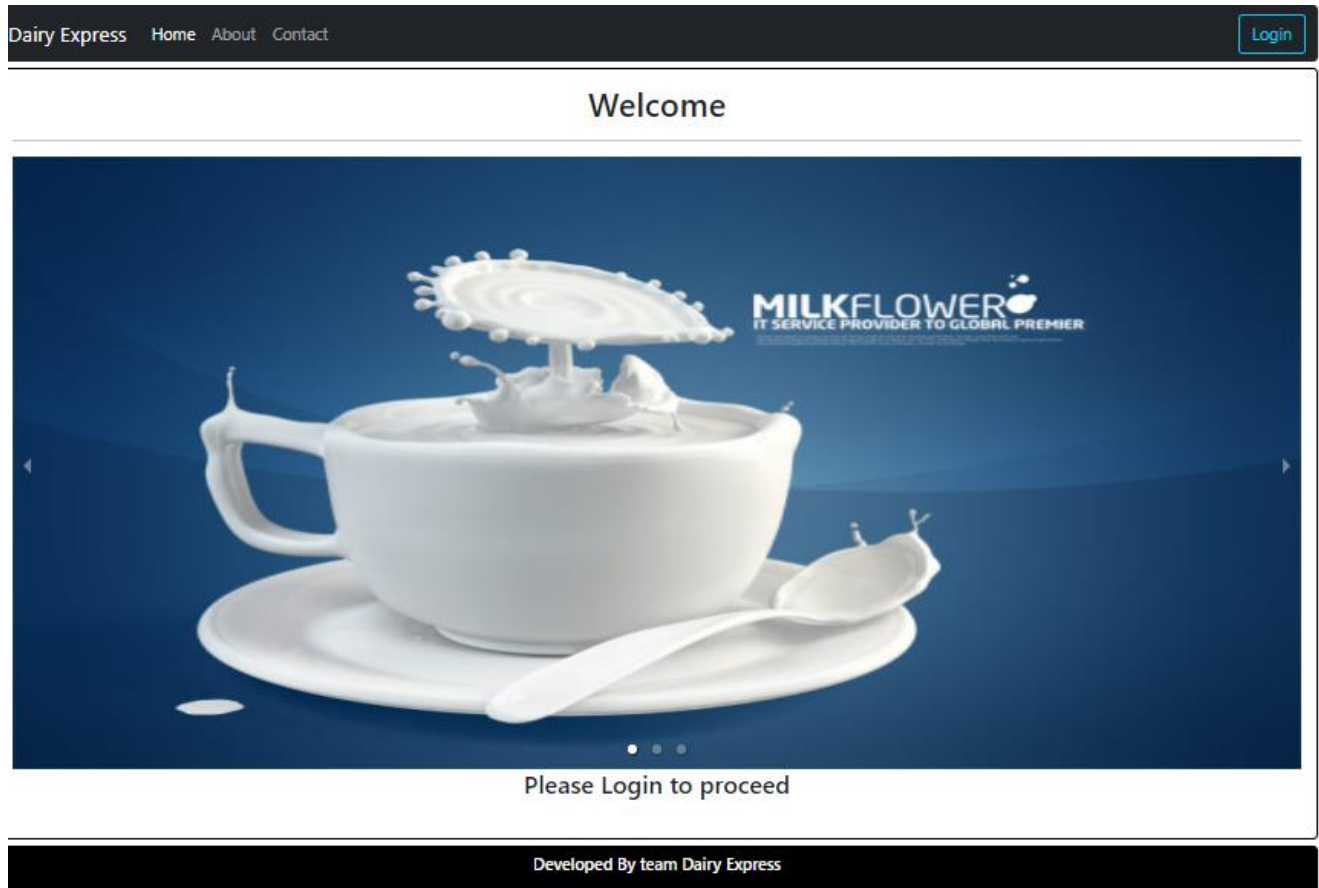
Field	Type	Null	Key	Default	Extra
id	Int	No	PRI	NULL	auto_increment
description	varchar(100)	Yes	UNI	NULL	
name	varchar(30)	Yes		NULL	
price	Double	Yes		NULL	
status	varchar(30)	No		NULL	
category_id	Int	Yes		NULL	

Stocks

Field	Type	Null	Key	Default	Extra
Product_id	Int	No	PRI	NULL	
quantity	Int	No		NULL	
unit	varchar(10)	Yes		NULL	

PROJECT SCREENSHOTS

USER HOME SCREEN



About-Us

Dairy Express

Home

About

Contact

Login

About Us

Vision

To be an independent, innovative, honest and sustainable company in which customers are able to choose from a wide range of dairy products at reasonable prices.

Mission

To satisfy our customers with a unique shopping experience offering quality products, variety of categories, fair price and best service,

Serving At

Sangli

Shivaji nagar, College Corner

10:00 to 19:00 Hrs

Kolhapur

Rankala Tower, Kolhapur

09:00 to 23:00 Hrs

Pune

Gokhale chowk, Magarpatta

09:00 to 22:00 Hrs

Values

To listen to the customers,the employees,to provide products,information and

to be responsible through commitment, and respect.

Developed By team Dairy Express

Contact-Us

Dairy Express

Home

About

Contact

Login

Contact Us

Reach out to us here

Nikita Patil

Store Manager

nikitapatil2196@gmail.com

Dairy-Express,Gandharva Plaza

Chintamani nagar

Sangli - 416416

Maharashtra | India

Contact

9273892921

0233-2651311

1800-9090-5544

Mahendra Kolhe

Store Manager

mahendrakolhe23@grocers.co

Dairy-Express, Jay Hind Complex

Rankala Tower

Kolhapur - 416012

Maharashtra | India

Contact

9611123422

0231-22651311

1800-9090-5544

Nikhil Darade

Store Manager

nikhildarade23@gmail.com

Dairy-Express, Noor Plaza

Shivaji Nagar

Pune -411003

Maharashtra | India

Contact

8800001234

020-2234534

1800-9090-5544

Let us get back to you

Name

Your name

Email

you@gmail.com

Contact

Your mobile

What would you like to know?

Submit

Developed By team Dairy Express

19

LOG-IN

Dairy Express

Home

About

Contact

Login

Login

Email Address

name@example.com

Password

Login

New around here? [Sign Up](#)

Developed By team Dairy Express

ADMIN-EDIT-PROFILE

Dairy Express

Home

Profile

Employees ▾

Categories ▾

Products ▾

Stock

Logout

Edit Profile

First Name

Nikita

Last Name

Patil

Email address

admin1@gmail.com

Password

Phone

343434

Save

Developed By team Dairy Express

ADD-PRODUCT

Dairy Express

Home

Profile

Employees


Categories

Products

Stock

Logout

Add Product



Add or Change Image

Choose FileNo file chosen

Product Name

Product Name

Product Description

Add Description of Product

Category:

Select Category

New Category

Price:

Rs.125

Quantity:

5

Add ProductCancel

Developed By team Dairy Express

STOCK-REPORT

Dairy Express

Home

Profile

Employees

Categories

Products

Stock

Logout

Stock Report

Category :

Select category

Product ID	Product Name	Product Stock
2	Chocolate	95
4	Chocolate	121
5	Nestle Chocolate	99
6	Dairy Milk	100
8	VeLoCity	100

Developed By team Dairy Express

ADD-REMOVE CATEGORIES

Dairy Express

Home

Profile

Employees

Categories

Products

Stock

Logout

Add New Category

Category Name

Status

ACTIVE

Add Category

Cancel

Developed By team Dairy Express

Dairy Express

Home

Profile

Employees

Categories

Products

Stock

Logout

2	chocolate	ACTIVE	Save	Remove
3	Milk	ACTIVE	Save	Remove
4	cheeze	ACTIVE	Save	Remove
5	Butter	ACTIVE	Save	Remove
6	Yogurt	ACTIVE	Save	Remove
7	ButterMilk	ACTIVE	Save	Remove


Developed By team Dairy Express

EDIT-PRODUCTS

DELIVERY-PERSON

[Dairy Express](#) [Home](#) [Edit Profile](#) [Deliver Orders ▾](#) [Logout](#)

Welcome Ankita



MILKFLOWER
IT SERVICE PROVIDER TO GLOBAL PREMIER

Developed By team Dairy Express

PICKED-ORDERS

[Dairy Express](#) [Home](#) [Edit Profile](#) [Deliver Orders ▾](#) [Logout](#)

Picked Orders

No Orders Found.

Developed By team Dairy Express

CUSTOMER

Dairy Express

Home

Profile

My Orders

Products

0

8%

Logout

Welcome Nikita

chocolate

>

Milk

>

cheeze

>

Butter


>

Yogurt

>

ButterMilk

>



A high-speed photograph of a white ceramic cup filled with milk, with a large splash of milk erupting from the top. The cup sits on a matching saucer with a spoon. The background is a deep blue gradient. In the top right corner of the image, the text 'MILKFLOWER' is displayed in white, with 'IT SERVICE PROVIDER TO GLOBAL PREMIER' written below it in smaller text.

ADD-TO-CART



Welcome

[chocolate](#)

[Milk](#)

[cheeze](#)

[Butter](#)

[Yogurt](#)

[ButterMilk](#)



Amul Butter
45 ₹

[Add To Cart](#)



Gowardhan Butter
60 ₹

[Add To Cart](#)



Nut Butter
30 ₹

[Add To Cart](#)



Delicious Butter
35 ₹

[Add To Cart](#)

ADDRESS

Dairy Express

Home

Profile

My Orders

Products

0

Logout

Addresses

At Post Khamni
shahpur
Burhanpur - 450445
Madhya Pradesh
India

EditDelete

pune
ecocity1
Pune - 410506
Maharashtra
India

EditDelete

+

Add New Address

Developed By team Dairy Express

ORDER-HISTORY

Dairy Express

Home

Profile




My Orders


Products

0

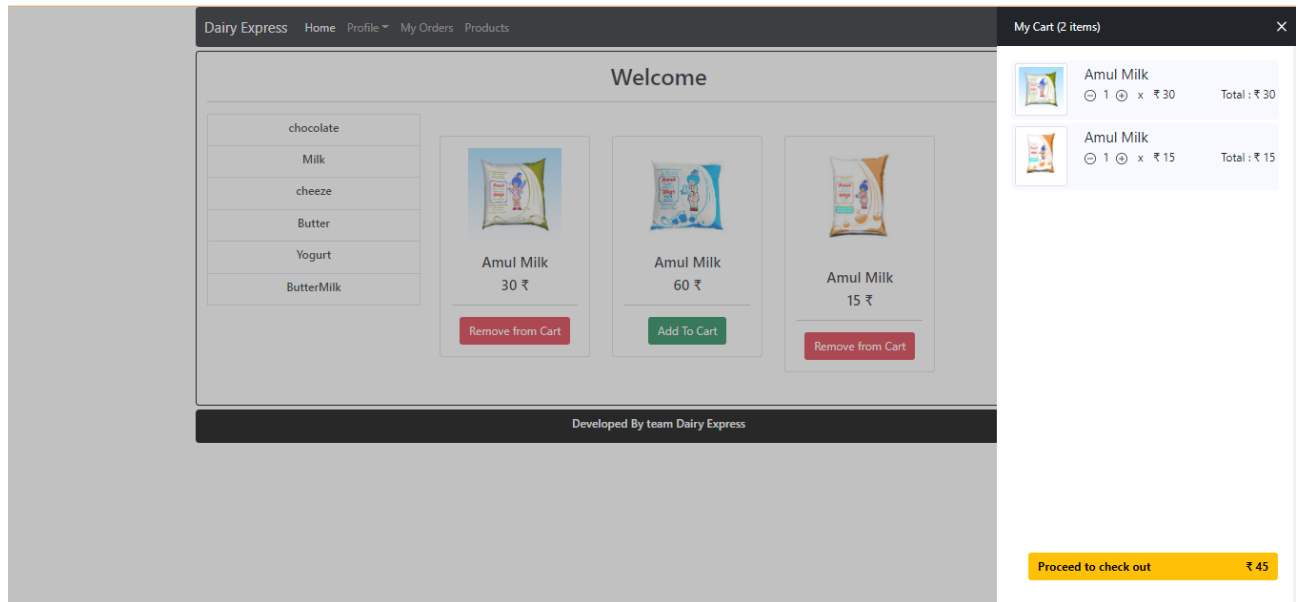
Logout

My Order history

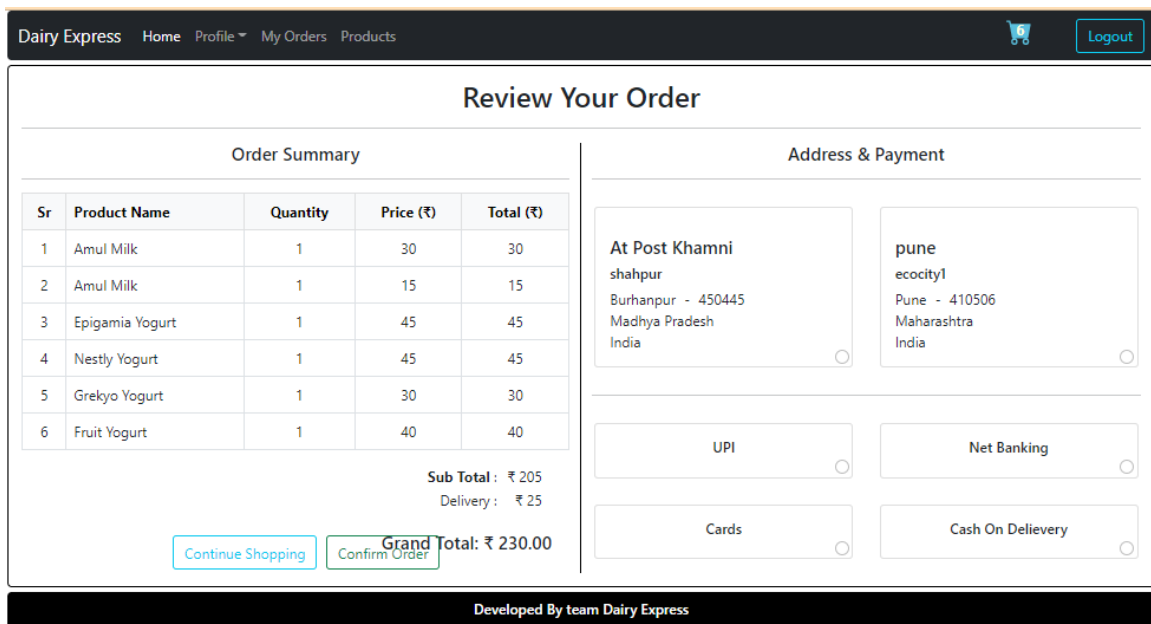
Order Date	Total Price	Latest Update	Order status
2022-04-18 08:42:16	383	2022-04-18 08:43:46	OUT_FOR_DELIVERY
	Chocolate	Price: 99 x 1	
	Chocolate	Price: 98 x 2	
	Nestle Chocolate	Price: 44 x 2	

Order Date	Total Price	Latest Update	Order status
2022-04-08 23:00:36	568	2022-04-08 23:05:01	DELIVERED
	Chocolate		

CART



REVIEW-ORDER



CONCLUSION

Currently small and medium scale Dairy Express don't have synchronization between their task and customer.

By making online milk product selling we have solved the problem from Dairy Express and customer end and more convenience is added to the existing system.

In future scope this system will be available with large scale database and can accommodate many customers and stores.

To find the location of new customer for that particular city we can add Google API to find nearest Dairy Express.

This system can also be developed on mobile application so that it can be access remotely.

In Future we will going to add Payment Gateway to it so it is not only Available for COD. Anyone can pay digitaly.