



INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On:

“DairyExpress”- Online Dairy Products Store

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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.

AKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, **Mrs.Megha Mane** for providing me with the right guidance and advice at the crucial juncture sand for showing me the right way. I extend my sincere thanks to our respected **Centre Co-Ordinator Mr. Rohit Puranik**, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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1.INTRODUCTION

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 those 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.

1.1 PROJECT OBJECTIVE

The objective 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 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.

1.2 PROJECT 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.

1.3 STUDY OF THE SYSTEM

1.3.1 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.

1.3.2 TECHNOLOGIES USED

- MySQL
- Spring Boot
- React-JS

1.3.3 FUNCTIONAL REQUIREMENTS

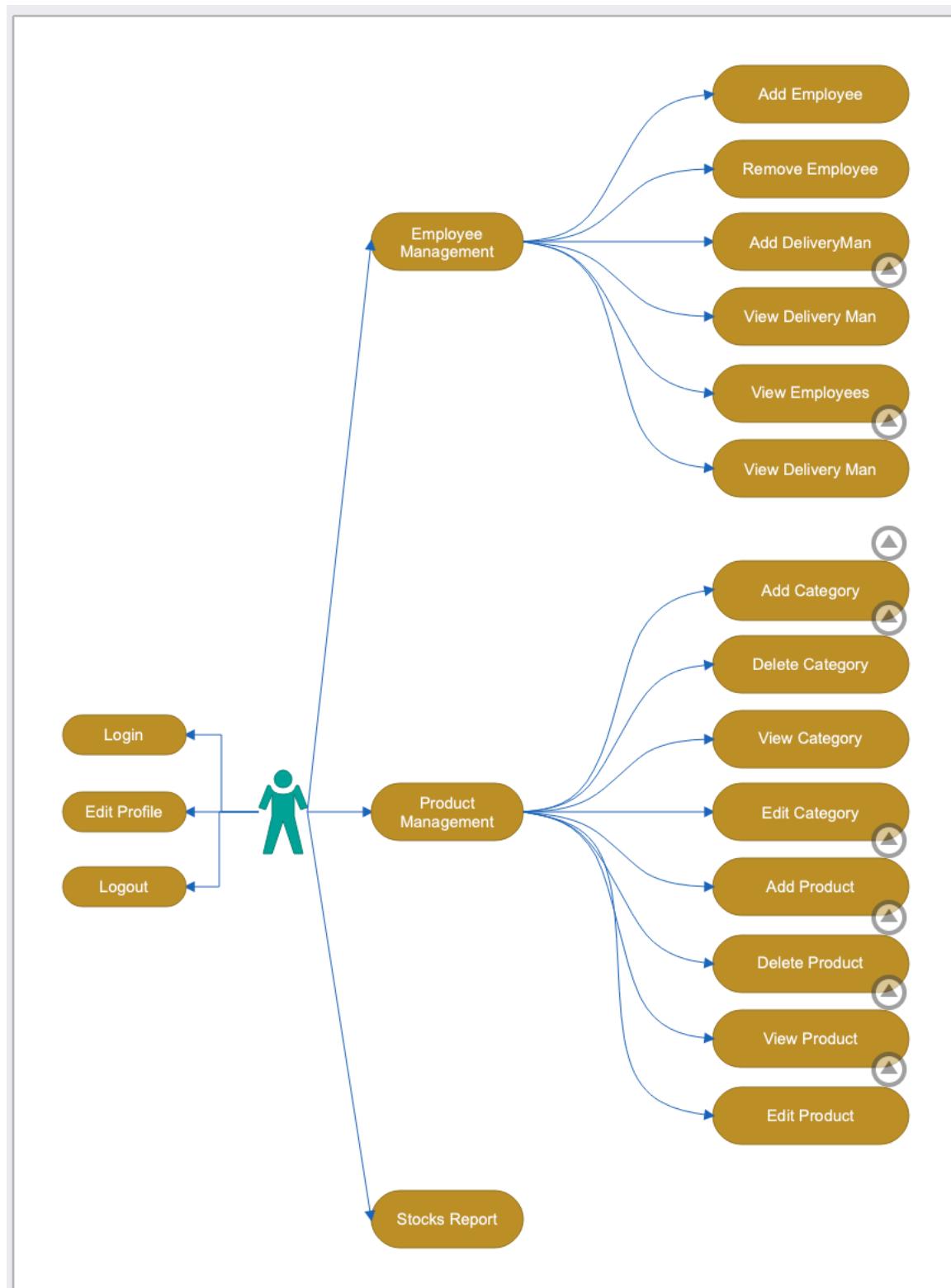
The major functionality of this product is divided into three categories.

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

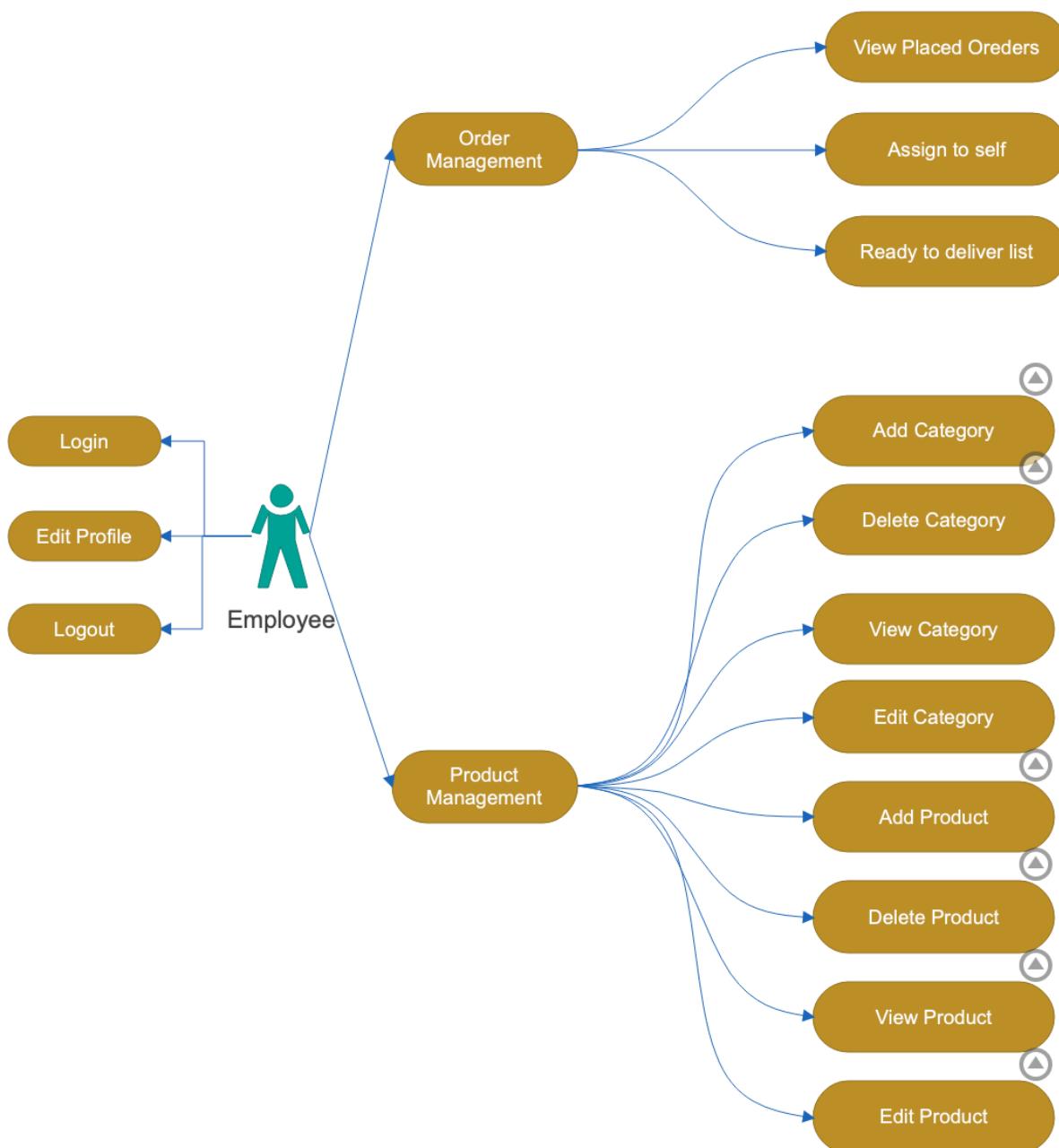
In this application each and every user must have their own Email ID and Password, using these Email ID and Password only they can directly enter into their corresponding Login forms.

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.

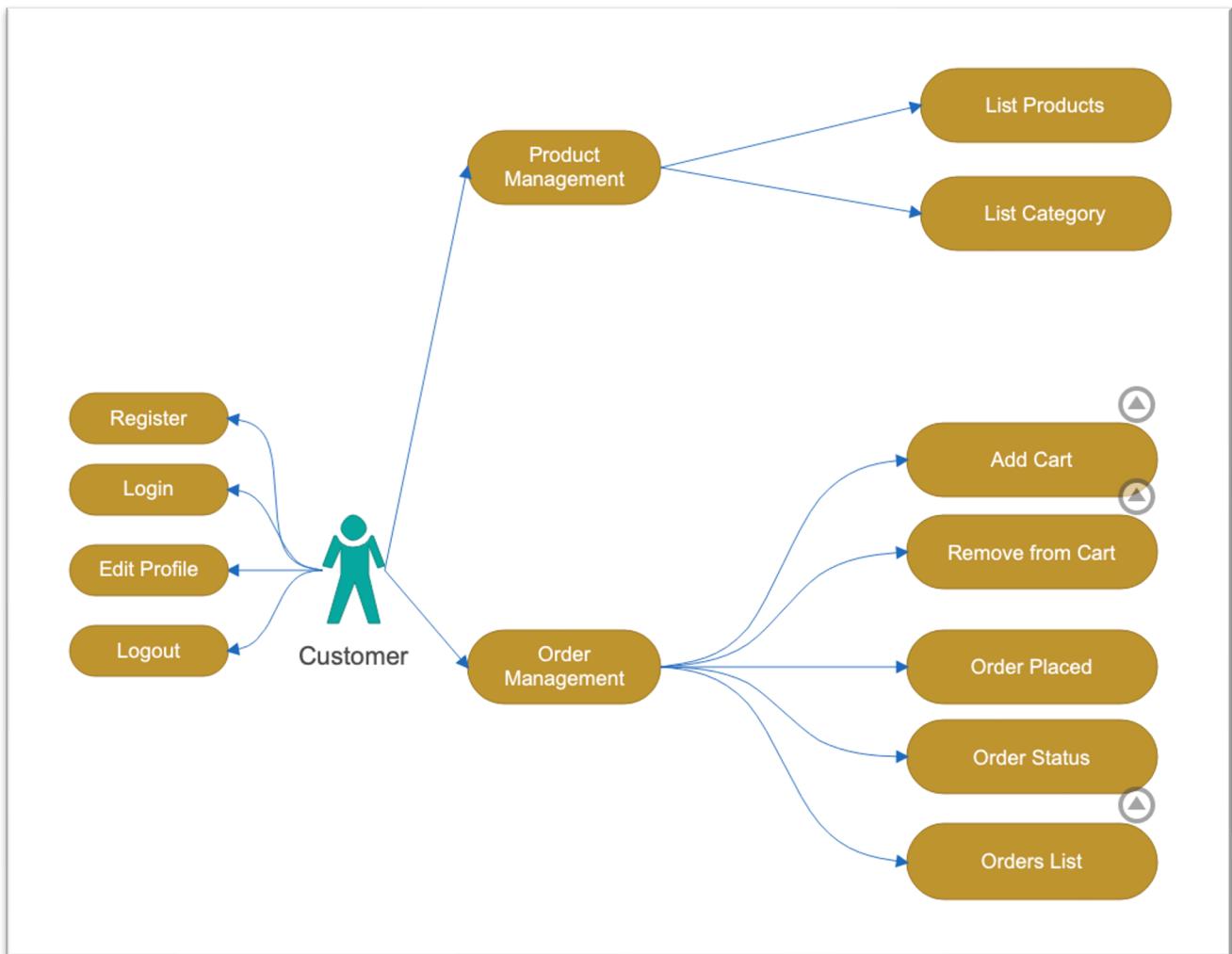
Administrative Functions:



Employee Function:

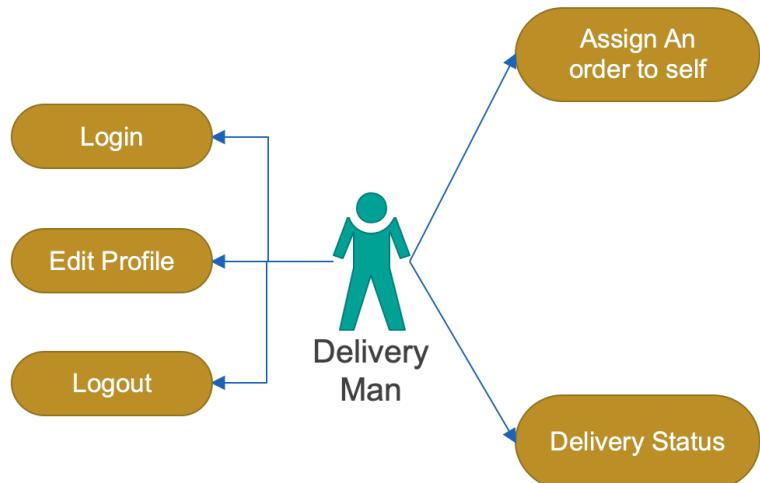


Customer Function:

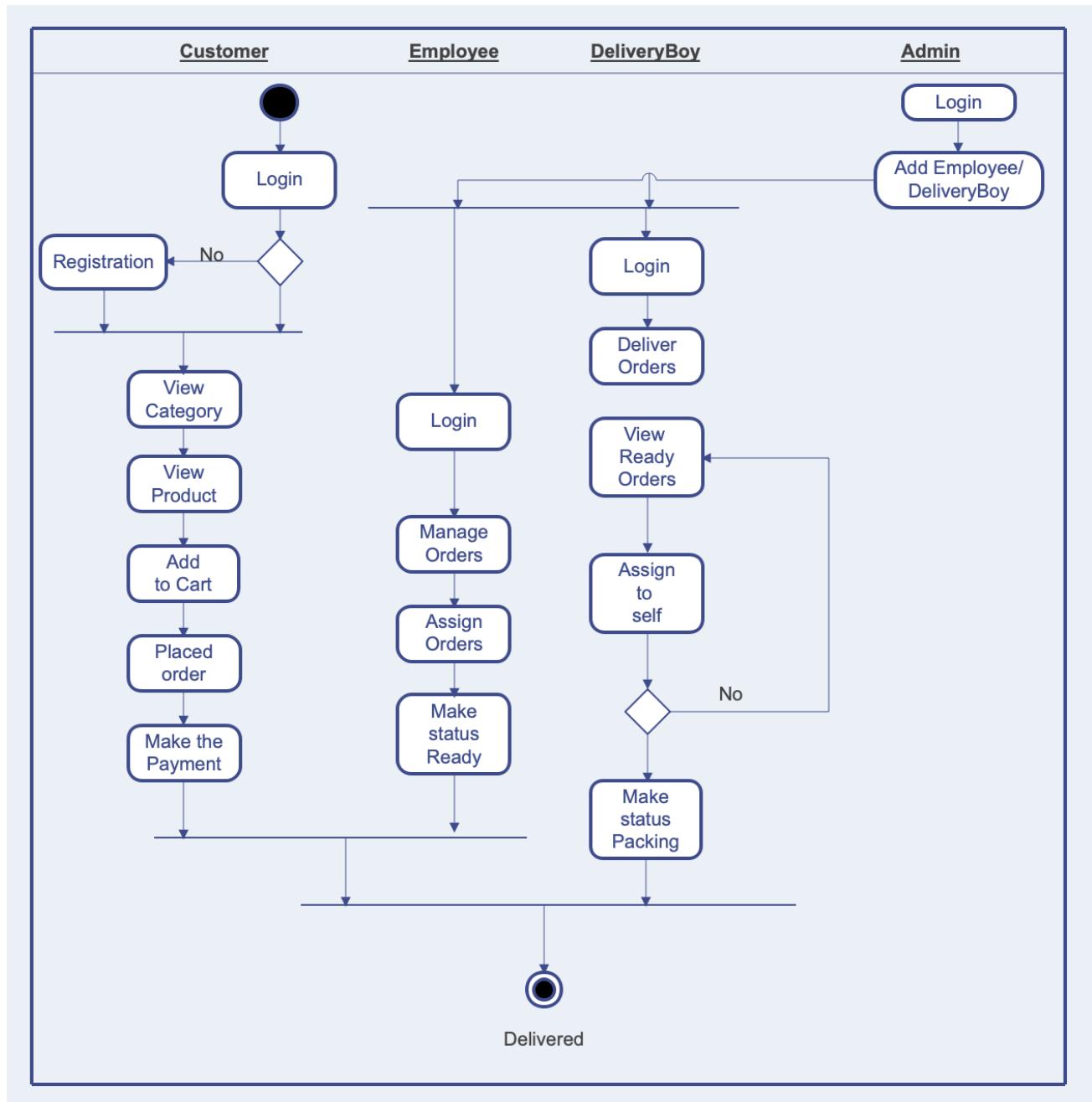


Delivery

Function:



Activity Diagram:



2.SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems, and using the information to recommend improvements on the system. System analysis is a problem-solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified, and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

2.1 SYSTEM REQUIREMENT SPECIFICATION

Title: System Requirement for Online Dairy Products delivery portal.

Product Description: DairyExpress Platform can be the greatest blessing for the customer's everyday morning needs of dairy products. With this platform customer can register and order their daily requirements of dairy products and receives assured delivery at the desire time every day at their doorstep.

Problem Statement: Daily needs like milk and other dairy products are critical every morning for a household and it is extremely important to have timely delivery as one's schedules depend on these items.

System Objectives: To provide a Web platform for online shopping of dairy products.

Functional Requirements : Any anonymous User will be able to view different products available for sale. Any User will be able select product to view from categories available. Employee will be to track and maintain stock of products available for sale. Employee will be able to raise requests for product updatation to Admin.

For Consumer Panel:

- Register and manage profile
- Add address
- Browse and sort through milk products Place an order
- Ratings and reviews
- Get order invoice via mail
- Refer a friend
- View discounts and offer

- View order history
- Select preferred delivery time
- Set vacation days for no deliver

For Admin Panel:

- Add product inventory
- Manage to the price of milk products
- Manage order and deliveries
- Manage payments
- Secure login to the admin dashboard
- Manage delivery executives
- Manage offers and discounts
- Manage orders
- Manage CMS
- Manage Employees
- Track order deliveries
- View ratings and reviews
- Generate reports

For Delivery Executive Panel:

- Create and manage profile
- View orders assigned
- View order details
- View customer location for delivery
- In-app call and chat with customer
- View order history

Non-Functional Requirements :

Security: Registered Customer will allowed to place an order. Each stakeholder will be to access system through authentication process. Who are you ? System will provide access to the content , operations using Role based security (Authorization) (Permissions based on Role) Using SSL in all transactions which will be performed stakeholder. It would protect confidential information shared by system to stake holder of Shared by stakeholder to system. System will automatically log off of all stakeholder after some time due to inactiveness. System will block operations for inactive stakeholder and would redirect for authentication. System will internally maintain secure communication channel between Servers (Web Servers, App Servers, database Server) Sensitive data will be always encrypted across communication. User proper firewall to protect servers from outside fishing, vulnerable attacks.

Reliability : The system will backup business data on regular basis and recover in short time duration to keep system operational. Continuous updates are maintained , continuous Administration is done to keep system operational. During peak hours system will maintain same user experience by managing load balancing.

Availability : uptime: 24* 7 available 99.999%.

Maintainability: A Commercial database software will be used to maintain System data Persistence. A readymade Web Server will be installed to host online DairyExpress portal (Web Site) to management server capabilities. IT operations team will easily monitor and configure System using Administrative tools provided by Servers. Separate environment will be maintained for system for isolation in production, testing, and development.

Portability: PDA: Portable Device Application System will provide portable User Interface (HTML, CSS, JS) through users will be able to access online DairyExpress portal. System can be deployed to single server, multi-server, to any OS, Cloud (Azure or AWS or GCP)

Accessibility: only registered customer will be able to place an order after authentication. BOD team will be able to view daily, weekly, monthly, annual business Growth through customized dashboard.

Durability: System will retain customer shopping cart for 15 minutes even though customer loose internet connection and join again. System will maintain Wishlist for customer . customer will be able to add products from wish list and add to shopping cart whenever needed. System will implement backup and recovery for retaining stake holders data, business operation data and business data over time.

Efficiency: System will designed and developed using reusable, independent or dependent business scenarios in the form of modules. These modules will be loosely coupled and highly cohesive. System will contain CRM , Inventory , shopping cart, order processing, payment processing, Delivery module, membership and Roles management modules.

Scalability: System will be able to provide consistent user experience to stake holder as well as visitors irrespective of load.

Safety: online DairyExpress portal will be secure from malicious attack, fishing. online DairyExpress portal functionalities are protected from outside with proper firewall configuration. online DairyExpress portal will be always kept updated with latest anti-virus software. Business data will be backed up periodically to ensure safety of data using incremental back up strategy. Role based security will be applied for Application data and operations accessibility.

3.DATABASE DESIGN

3.1 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- Primary key - the field that is unique for all the record occurrences
- Foreign key - the field used to set relation between tables.

Normalization is a technique to avoid redundancy in the tables.

3.2 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

3.2.1 FRONT END:

React is a library which is developed by Facebook are utilized to implement the frontend. React (also known as React.js or ReactJS) is a [free and open-source](#) front-end JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

3.2.2 BACKEND:

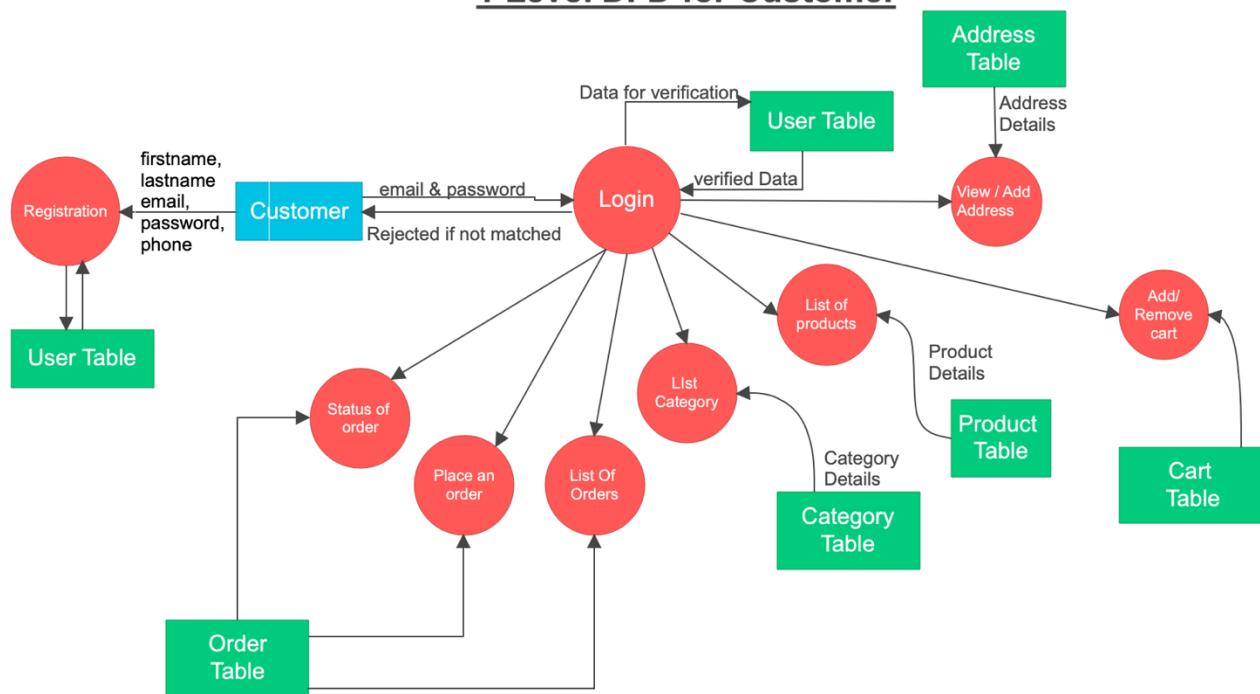
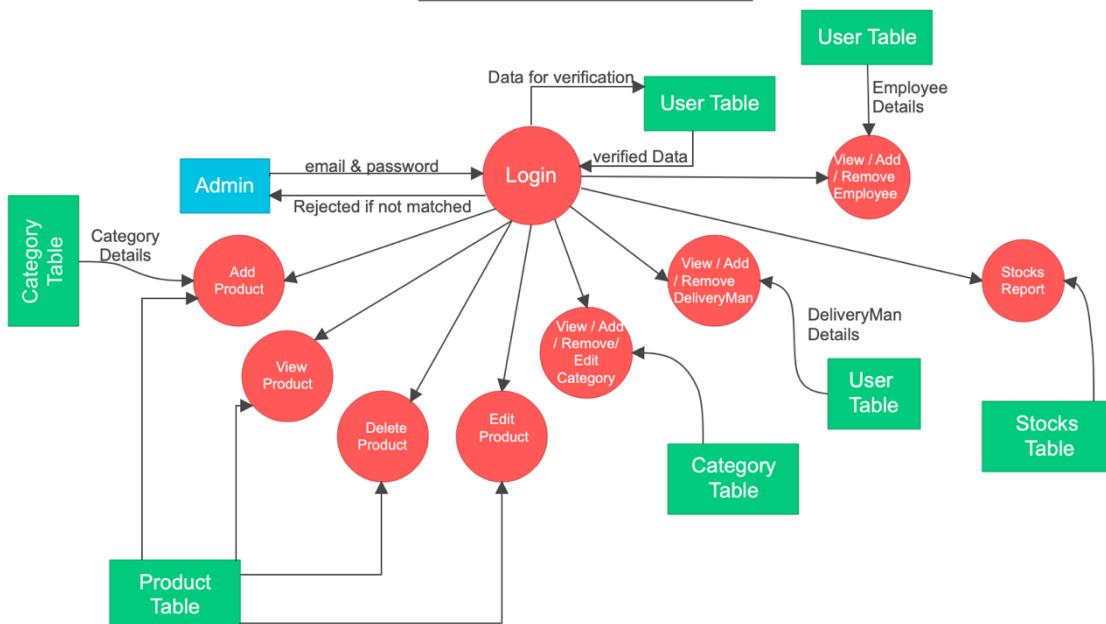
The back end is implemented using MySQL which is used to design databases.

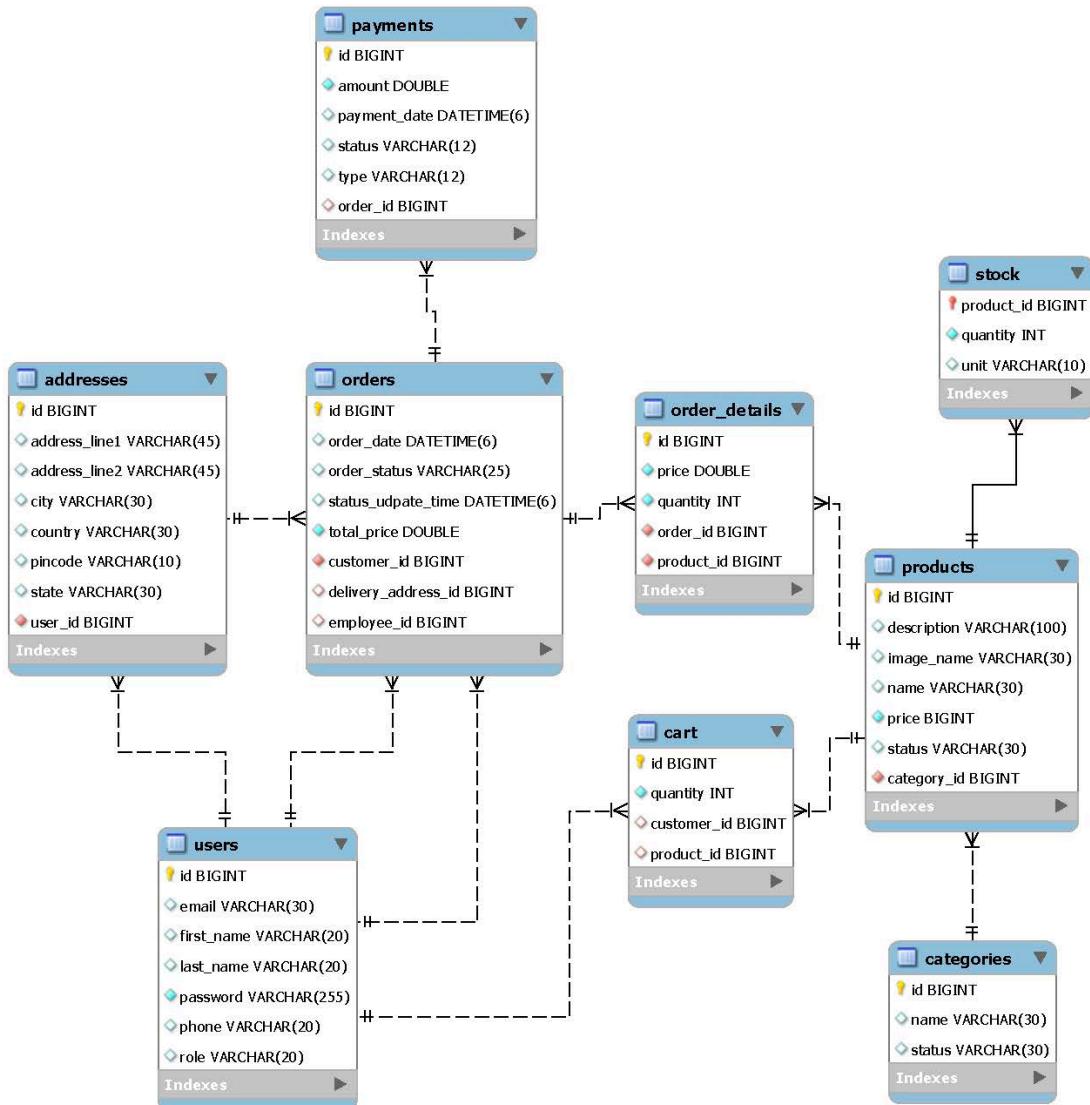
MySQL:

MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language. An application software called Navicert was used to design the tables in MySQL.

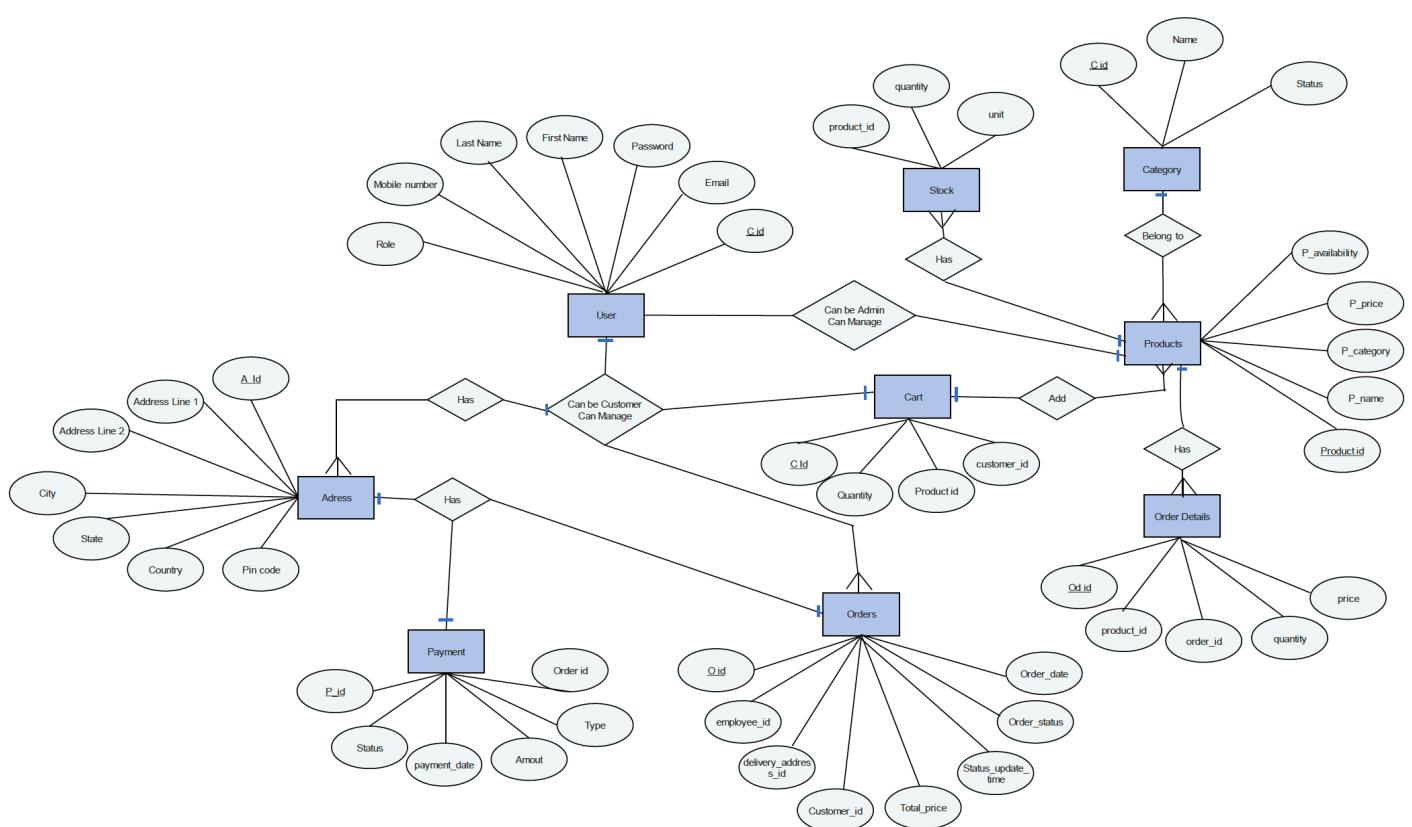
Spring-Boot:

This is used to connect MYSQL and fetch data from database and store the data in database. The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Open-source Framework.

1 Level DFD for Customer**1 Level DFD for Admin**

ER-DIAGRAM SOFTWARE GENERATED:

ER-DIAGRAM MANUAL DRAWING:



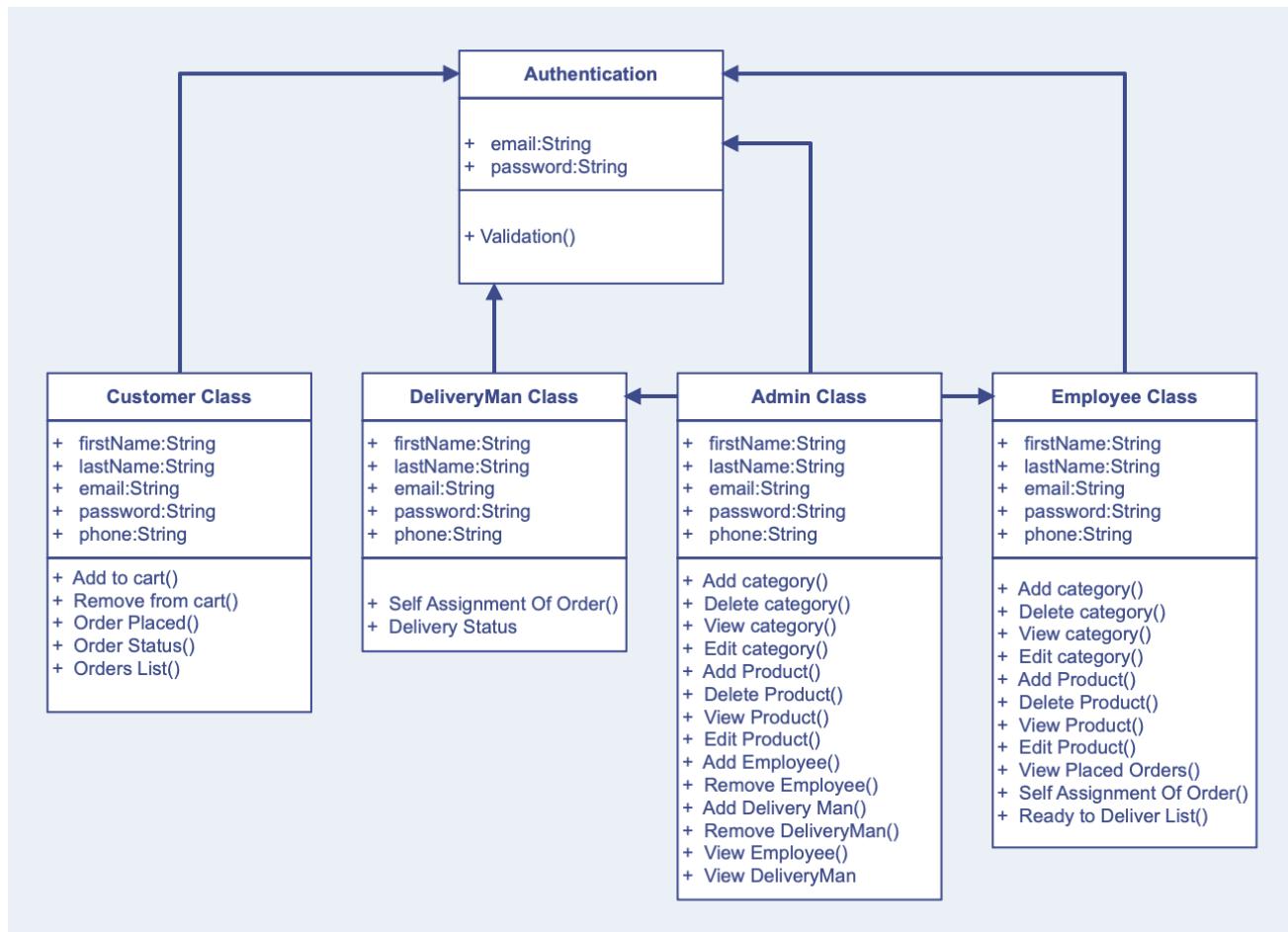
CLASS DIAGRAM:

TABLE STRUCTURE

All TABLES:

	Tables_in_dairyexpress
+-----+	
addresses	
cart	
categories	
order_details	
orders	
payments	
products	
stock	
users	
+-----+	

USERS :

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
password	varchar(255)	NO		NULL	
phone	varchar(20)	YES		NULL	
role	varchar(20)	YES		NULL	
name	varchar(20)	YES		NULL	

STOCKS :

Field	Type	Null	Key	Default	Extra
product_id	bigint	NO	PRI	NULL	
quantity	int	NO		NULL	
unit	varchar(10)	YES		NULL	

PRODUCTS :

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
description	varchar(100)	YES		NULL	
image_name	varchar(30)	YES		NULL	
name	varchar(30)	YES		NULL	
price	bigint	NO		NULL	
status	varchar(30)	YES		NULL	
category_id	bigint	NO	MUL	NULL	

PAYMENTS:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
amount	double	NO		NULL	
payment_date	datetime(6)	YES		NULL	
status	varchar(12)	YES		NULL	
type	varchar(12)	YES		NULL	
order_id	bigint	YES	MUL	NULL	

ORDERS:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
order_date	datetime(6)	YES		NULL	
order_status	varchar(25)	YES		NULL	
status_update_time	datetime(6)	YES		NULL	
total_price	double	NO		NULL	
customer_id	bigint	NO	MUL	NULL	
delivery_address_id	bigint	YES	MUL	NULL	
employee_id	bigint	YES	MUL	NULL	
status_update_date	datetime(6)	YES		NULL	

ORDER_DETAILS:

```
[mysql] > DESC ORDER_DETAILS;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
price	double	NO		NULL	
quantity	int	NO		NULL	
order_id	bigint	NO	MUL	NULL	
product_id	bigint	NO	MUL	NULL	

CART:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
quantity	int	NO		NULL	
customer_id	bigint	YES	MUL	NULL	
product_id	bigint	YES	MUL	NULL	

ADDRESSES:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
address_line1	varchar(45)	YES		NULL	
address_line2	varchar(45)	YES		NULL	
city	varchar(30)	YES		NULL	
country	varchar(30)	YES		NULL	
pincode	varchar(10)	YES		NULL	
state	varchar(30)	YES		NULL	
user_id	bigint	NO	MUL	NULL	
pin_code	varchar(10)	YES		NULL	

CATEGORIES:

```
[mysql] > DESC CATEGORIES;
```

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

4.PROJECT SCREENSHOT

Home Page:



About-Us:

The screenshot shows a web browser window with a dark header bar. The address bar says "localhost". The main content area has a light gray background. At the top left, there's a navigation bar with links: "Dairy Express", "Home", "About", "Contact", and a "Login" button. In the center, the title "About Us" is displayed. Below the title, there are two sections: "Vision" and "Mission". The "Vision" section states: "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." The "Mission" section states: "To satisfy our customers with a unique shopping experience offering quality products, variety of categories, fair price and best service,". To the right of the "Mission" section, there's a "Values" list: "• To listen to the customers, the employees, to provide products, information and • to be responsible through commitment, and respect." At the bottom of the page, there's a black footer bar with the text "Developed By team Dairy Express".

Contact:

Dairy Express Home About Contact Login

Contact Us

Reach out to us here		Let us get back to you
Mahendra Kolhe Store Manager mkolhe23@gmail.com	Dairy-Express, Jay Hind Complex Jaytambh Chowk Buldhana - 443103 Maharashtra India	Contact 7350458043 0231-22651311 1800-9090-5544
Sujay Mathane Store Manager sujay@gmail.com	Dairy-Express,Gandharva Plaza Chintamani nagar Amravati - 416416 Maharashtra India	Contact 9273892921 0233-2651311 1800-9090-5544

Name: Your name

Email: you@gmail.com

Contact: Your mobile

What would you like to know?

Submit

Developed By team Dairy Express

Login:

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 Welcome Page:



Admin Editable Profile Page:

A screenshot of a web browser window titled "localhost". The page header includes links for "Dairy Express", "Home", "Profile", "Employees", "Categories", "Products", and "Stock", along with a "Logout" button. The main content area features a form titled "Edit Profile" with fields for "First Name" (Sujay), "Last Name" (Mathane), "Email address" (sujaymathane96@gmail.com), "Password" (redacted), "Phone" (8237510542), and a "Save" button. Below the form, a black footer bar contains the text "Developed By team Dairy Express".

Admin can Add Product:

Dairy Express Home Profile Employees Categories Products Stock Logout

Add Product

Product Name:

Product Description:

Category: Price:

Quantity:

Add or Change Image: no file selected

Developed By team Dairy Express

Admin can View Stock Report:

Dairy Express Home Profile Employees Categories Products Stock Logout

Stock Report

Category :

Product Name	Product Stock
Milk	3
FreshMilk	5
cheese	5

Developed By team Dairy Express

Admin can Add/Remove Category:

Dairy Express Home Profile Employees Categories Products Stock Logout

Add New Category

Category Name

Status

Developed By team Dairy Express

Dairy Express Home Profile Employees Categories Products Stock Logout

Categories

1	Milk	ACTIVE <input type="button" value="dropdown"/>	<input type="button" value="Save"/>	<input type="button" value="Remove"/>
2	Paneer	ACTIVE <input type="button" value="dropdown"/>	<input type="button" value="Save"/>	<input type="button" value="Remove"/>
3	Eggs	ACTIVE <input type="button" value="dropdown"/>	<input type="button" value="Save"/>	<input type="button" value="Remove"/>
4	BakeryProducts	ACTIVE <input type="button" value="dropdown"/>	<input type="button" value="Save"/>	<input type="button" value="Remove"/>
5	Chocolate	ACTIVE <input type="button" value="dropdown"/>	<input type="button" value="Save"/>	<input type="button" value="Remove"/>

Developed By team Dairy Express

Admin can Add/View Employee/Delivery Persons:

The screenshot displays two screenshots of a web application interface.

Top Screenshot (SignUp Page):

- Header: localhost
- Navigation: Dairy Express, Home, Profile, Employees, Categories, Products, Stock, Logout
- Form Fields:
 - First Name: First Name
 - Last Name: Last Name
 - Email address: name@example.com
 - Password: *****
 - Role: ✓ -- Select, Employee, Delivery_person (highlighted with a blue box and arrow)
- Footer: Developed By team Dairy Express

Bottom Screenshot (All Employees Page):

- Header: localhost
- Navigation: Dairy Express, Home, Profile, Employees, Categories, Products, Stock, Logout
- Section: All Employees
- Table: View Employees

Name	Email	Phone
employee	employee@gmail.com	Not Provided

- Table: View Deliverers

Name	Email	Phone
Delivery	delivery@gmail.com	Not Provided
Ramesh	ramesh@gmail.com	Not Provided

- Footer: Developed By team Dairy Express

Customer Login Page With List of Categories :

The screenshot shows a web browser window with the URL "localhost" in the address bar. The page title is "chocolate - Google". The header includes links for "Dairy Express", "Home", "Profile", "My Orders", and "Products", along with a "Logout" button and a shopping cart icon showing "0". Below the header, a "Welcome customer" message is displayed. A horizontal row of category buttons is shown: "Milk", "Paneer", "Eggs", "BakeryProducts", and "Chocolate", each with a right-pointing arrow. Below these buttons is a large promotional image for "MILKFLOWER" featuring a white cup of milk with a splash, a spoon, and a snail on a saucer against a blue background. At the bottom of the page is a black footer bar with the text "Developed By team Dairy Express".

Customer can view List of Products :

The screenshot shows a web browser window with the URL "localhost" in the address bar. The page title is "chocolate - Google". The header includes links for "Dairy Express", "Home", "Profile", "My Orders", and "Products", along with a "Logout" button and a shopping cart icon showing "0". Below the header, a "Welcome" message is displayed. On the left, a vertical sidebar lists categories: "Milk", "Paneer", "Eggs", "BakeryProducts", and "Chocolate". The main content area displays three product cards: 1) "Milkk" at 60 ₹ with an "Add To Cart" button; 2) "FreshMilk" at 60 ₹ with an "Add To Cart" button; and 3) "cheese" at 60 ₹ with an "Add To Cart" button. Each card features a small image of the product. At the bottom of the page is a black footer bar with the text "Developed By team Dairy Express".

Customer can Add their address:

The screenshot shows a web browser window with the URL 'localhost'. The page title is 'chocolate - Google...'. The navigation bar includes links for 'Dairy Express', 'Home', 'Profile', 'My Orders', 'Products', a shopping cart icon with '0', and a 'Logout' button.

The main content area is titled 'Add Address'. It contains fields for 'Address line 1' (Megh Malhar Raga), 'Address line 2' (Behind Maratha Mandir, Bawdhan), 'City' (pune), 'Pin Code' (411021), 'State' (Maharashtra), and 'Country' (India). At the bottom are 'Add address' and 'Cancel' buttons.

At the very bottom of the page, it says 'Developed By team Dairy Express'.

Review-Order:

The screenshot shows a web browser window with the URL 'localhost'. The page title is 'chocolate - Google...'. The navigation bar includes links for 'Dairy Express', 'Home', 'Profile', 'My Orders', 'Products', a shopping cart icon with '2', and a 'Logout' button.

The main content area is titled 'Review Your Order'. It is divided into two sections: 'Order Summary' and 'Address & Payment'.

Order Summary: A table showing the following items:

Sr	Product Name	Quantity	Price (₹)	Total (₹)
1	cheese	1	60	60
2	FreshMilk	1	60	60

Sub Total: ₹ 120
Delivery: ₹ 25
Grand Total: ₹ 145.00

Address & Payment: Shows two address options and four payment methods.

- sample address1
sample address2
Pune - 444605
MAHARASHTRA
India
- Megh Malhar Raga
Behind Maratha Mandir, Bawdhan
pune - 411021
Maharashtra
India

Payment Methods:

- UPI (radio button selected)
- Net Banking
- Cards
- Cash On Delivery

At the bottom, there are 'Continue Shopping' and 'Confirm Order' buttons. The footer says 'Developed By team Dairy Express'.

Customer Order-History:

The screenshot shows a web browser window for 'Dairy Express' on 'localhost'. The title bar includes the URL 'localhost', a search bar with 'chocolate - Goog...', and a 'Logout' button. The main content area is titled 'My Order history'.

Order 1 (Top):

Order Date	Total Price	Latest Update	Order status
2023-03-09 16:04:55	120	2023-03-09 16:04:55	PLACED

Items: cheese (fresh) - Price: 60 x 1

Order 2 (Middle):

Order Date	Total Price	Latest Update	Order status
2023-03-08 21:10:07	60	2023-03-08 21:16:51	OUT_FOR_DELIVERY

Items: Milk (FreshMilk) - Price: 60 x 1

Order 3 (Bottom):

Order Date	Total Price	Latest Update	Order status
2023-03-08 20:20:12	60	2023-03-08 20:26:42	DELIVERED

Items: Milk (FreshMilk) - Price: 60 x 1

At the bottom of the page, a black bar states 'Developed By team Dairy Express'.

Delivery-Person Order Management:

The screenshot shows a web browser window for 'Dairy Express' on 'localhost'. The title bar includes the URL 'localhost', a search bar with 'chocolate - Goog...', and a 'Logout' button. The main content area is titled 'All Orders'.

Order 1 (Top):

Order Date	Address	Assign to self
2023-03-09 16:04:55	Behind Maratha Mandir, Bavdhan	<button>Assign to self</button>

Items: cheese (fresh) - Quantity: 1

Order 2 (Middle):

Order Date	Address	Assign to self
2023-03-08 21:10:07	Behind Maratha Mandir, Bavdhan	<button>Assign to self</button>

Items: FreshMilk (500ml) - Quantity: 1

At the bottom of the page, a black bar states 'Developed By team Dairy Express'.

5.CONCLUSION

The project entitled **DairyExpress** was completed successfully.

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

The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for purchasing items online.

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using React.js, usage of responsive templates and management of database using MySQL. The entire system is secured. Also, the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

In future scope this system will be available with large scale database and can accommodate many customers. This system can also be developed on mobile application so that it can be access remotely.

Another feature we wished to implement was providing classes for customers so that different offers can be given to each class.

System may keep track of history of purchases of each customer and provide suggestions based on their history. These features could have implemented unless the time did not limit us.

6. REFERENCES

ONLINE REFERENCE:

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