



# Dairy Management System

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# Submitted by

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Limitations of the software

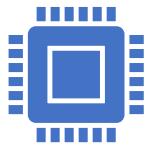
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Reference

# Hardware Specifications



Disk space: 4GB free  
space



Processor: INTEL  
P4(or above)



Memory: 512 MB  
(or above)



Input Device:  
Mouse or Keyboard



Output Device:  
Printer

# Software Specifications

- ✓ Operating System: Windows 7 (or above)
- ✓ Developmental tool: HTML, PHP, CSS
- ✓ Graphic Tools: MS Paint, Adobe Photoshop and Macromedia Dreamweaver 8
- ✓ Database Server at Backend: PHP-MYSQL
- ✓ Preferred Screen resolution was 1024 x 768

# Goal Of The Project



The **Dairy Management System** is a software-based application works as a Simple Dairy Software to maintain daily milk record by registered account members to generate salaries and maintain reports.



Performs the basic operation of delivering milk in a computerized way.



All the process are automated which helps in increasing efficiency

# Functionality Of The Project

## **ADMIN FUNCTIONS :**

- Login
- Manage milk rates
- Manage inventory
- Manage supplier
- View reports

## **SUPPLIER FUNCTIONS :**

- Login
- Register
- Deliver to Customer

## **USER FUNCTIONS :**

- Registration
- Login
- View products
- Order products
- Give Feedback

## Tools Used For This Project

### FRONT END DEVELOPMENT



JAVASCRIPT  
CSS    HTML

### BACK END DEVELOPMENT



PYTHON   PHP

# Data Flow Diagram

DFD is the abbreviation for **Data Flow Diagram**. The flow of data of a system or a process is represented by DFD. It also gives insight into the inputs and outputs of each entity and the process itself. DFD does not have control flow and no loops or decision rules are present. Specific operations depending on the type of data can be explained by a flowchart. Data Flow Diagram can be represented in several ways. The DFD belongs to structured-analysis modeling tools. Data Flow diagrams are very popular because they help us to visualize the major steps and data involved in software-system processes.

# Components of DFD

**External entity:** an outside system that sends or receives data, communicating with the system being diagrammed. They are the sources and destinations of information entering or leaving the system. They might be an outside organization or person, a computer system or a business system. They are also known as terminators, sources and sinks or actors. They are typically drawn on the edges of the diagram.

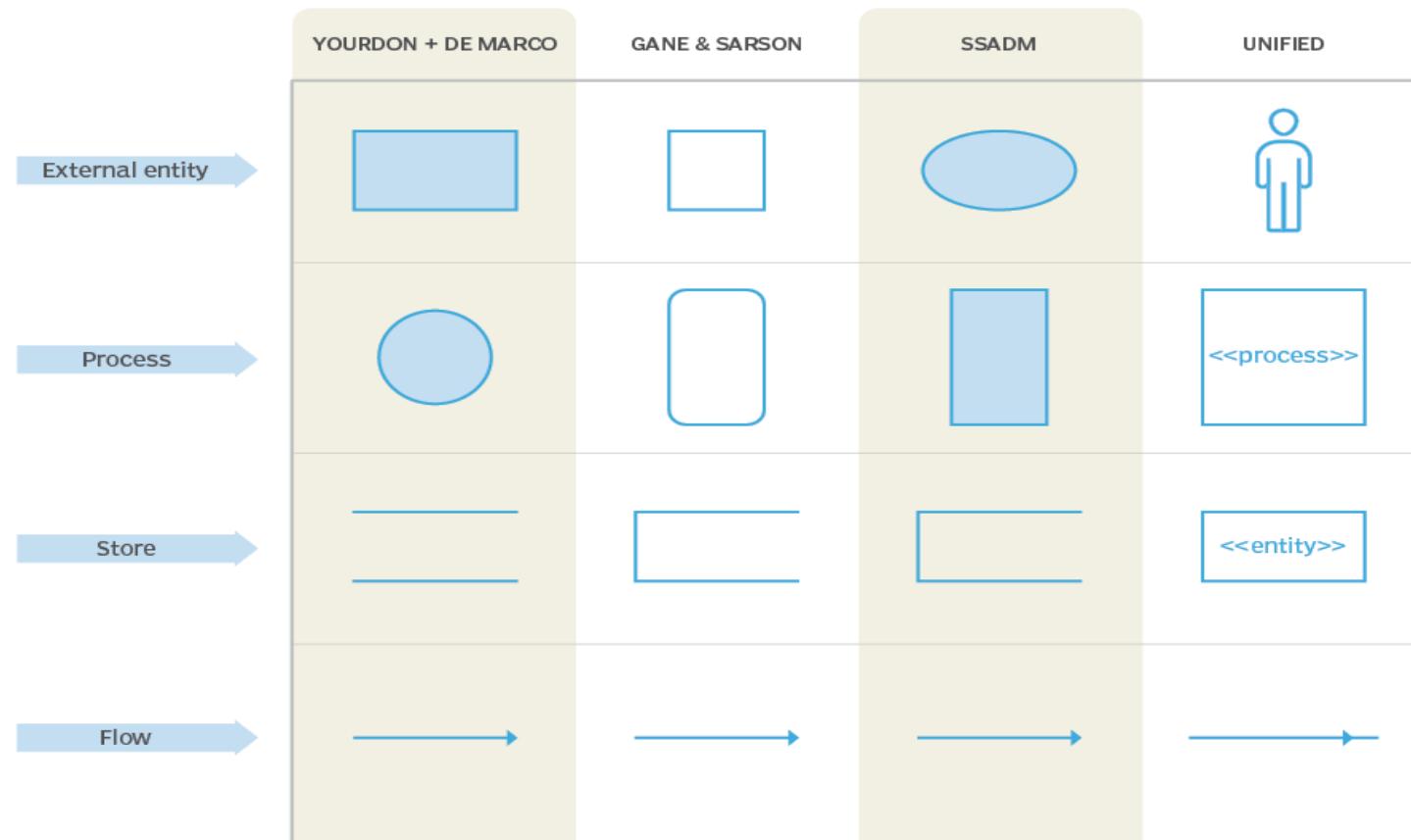
**Process:** any process that changes the data, producing an output. It might perform computations, or sort data based on logic, or direct the data flow based on business rules. A short label is used to describe the process, such as "Submit payment."

**Data store:** files or repositories that hold information for later use, such as a database table or a membership form. Each data store receives a simple label, such as "Orders."

**Data flow:** the route that data takes between the external entities, processes and data stores. It portrays the interface between the other components and is shown with arrows, typically labelled with a short data name, like "Billing details."

# Data flow diagram methods and symbols

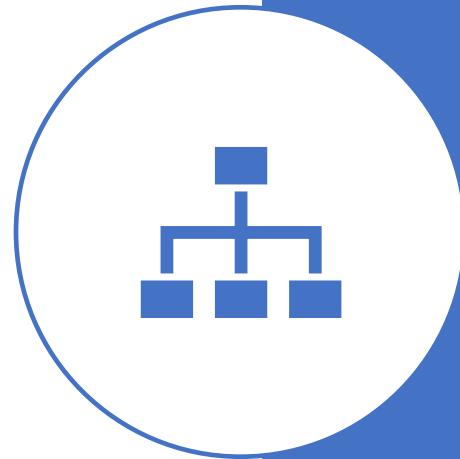
While these four popular DFD methods use the same notions, their respective symbols can vary.  
It's recommended that organizations choose one method to avoid confusion.



# Levels of DFD

DFD uses hierarchy to maintain transparency thus multilevel DFD's can be created. Levels of DFD are as follows:

- 0-level DFD
- 1-level DFD
- 2-level DFD



# Advantages of DFD

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- It helps us to understand the functioning and the limits of a system.
- It is a graphical representation which is very easy to understand as it helps visualize contents.
- Data Flow Diagram represent detailed and well explained diagram of system components.
- It is used as the part of system documentation file.
- Data Flow Diagrams can be understood by both technical or nontechnical person because they are very easy to understand.

# Disadvantages of DFD

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- At times DFD can confuse the programmers regarding the system.
- Data Flow Diagram takes long time to be generated, and many times due to this reasons analysts are denied permission to work on it.

# DFD rules and tips



Each process should have at least one input and an output.



Each data store should have at least one data flow in and one data flow out.



Data stored in a system must go through a process.

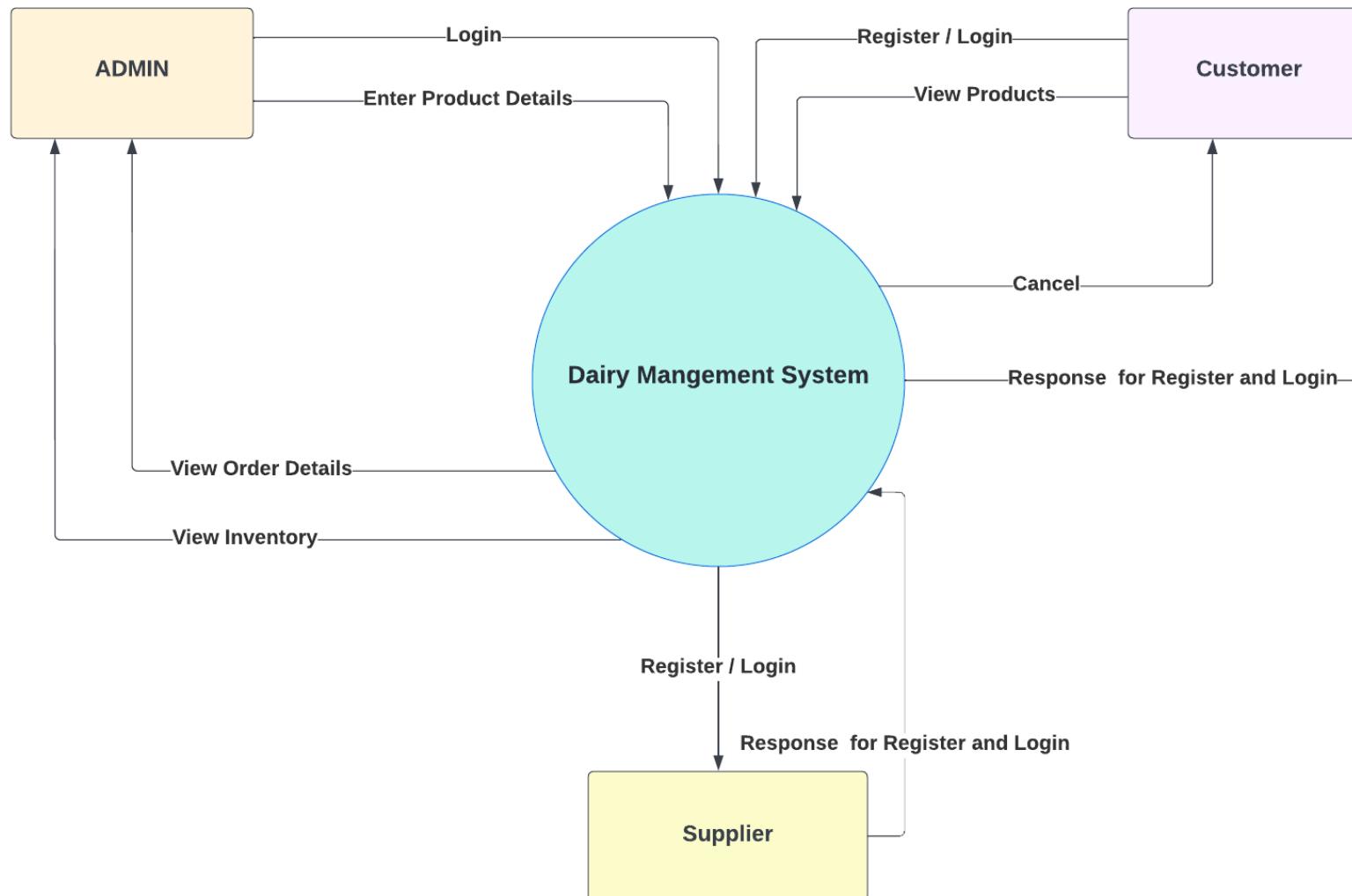


All processes in a DFD go to another process or a data store.

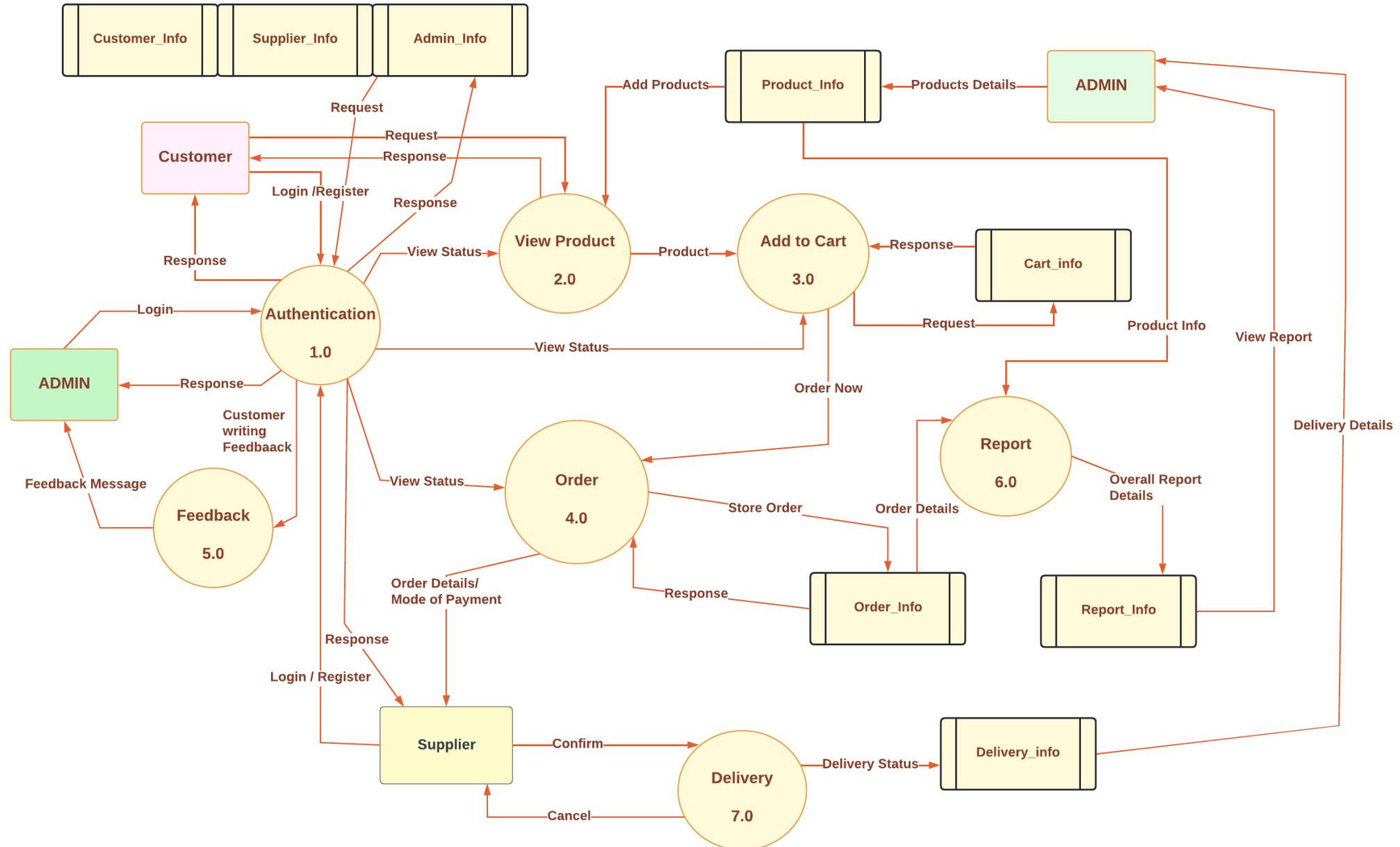
# Dairy management system data flow diagram



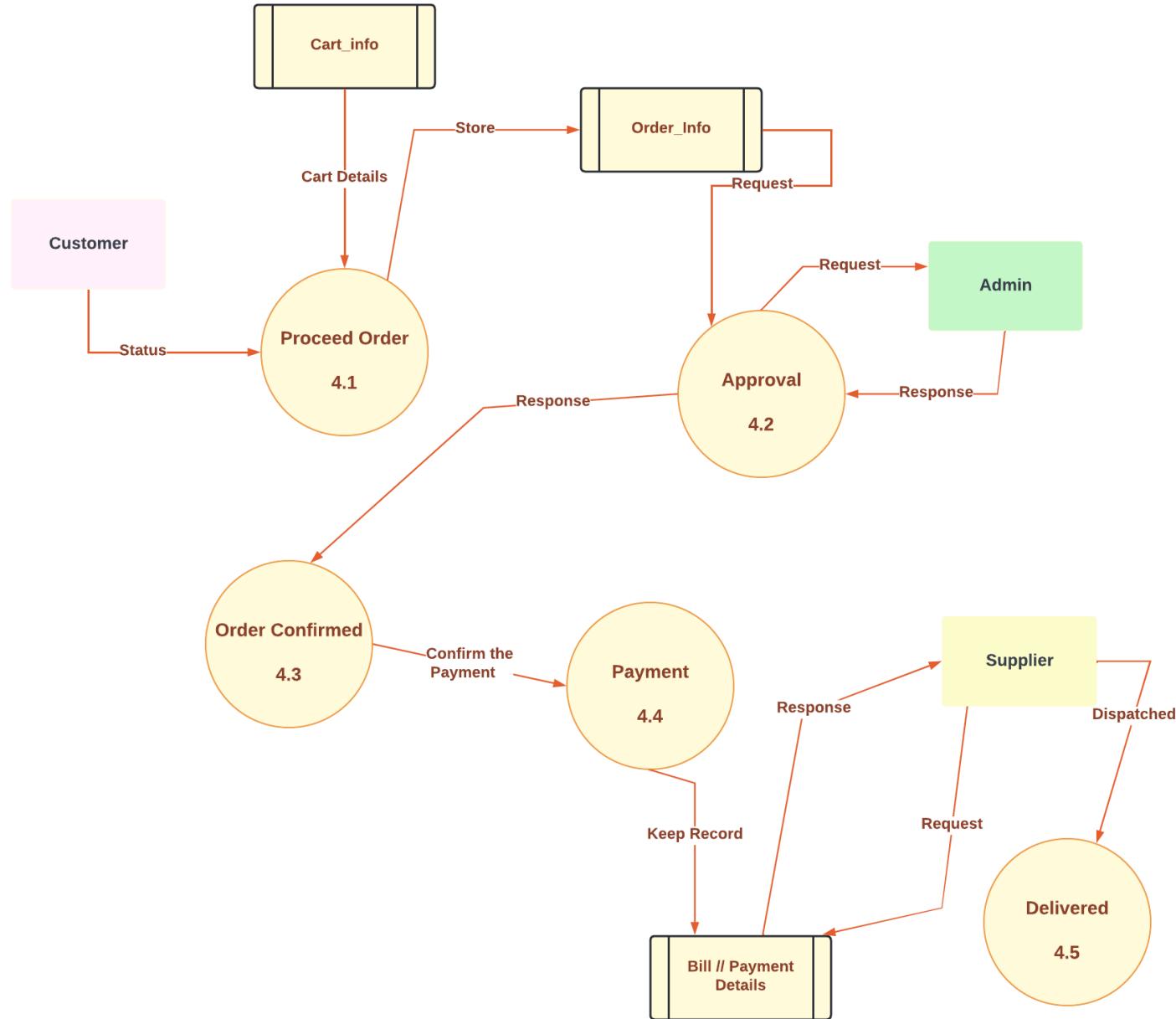
## O LEVEL / CONTEXT LEVEL DATA FLOW DIAGRAM (DFD)



## 1 LEVEL DATA FLOW DIAGRAM (DFD)



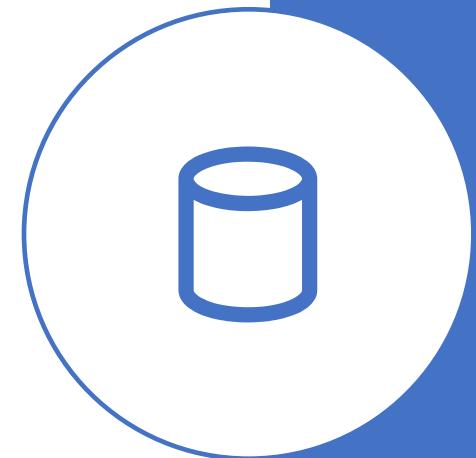
**2 LEVEL DATA FLOW DIAGRAM (DFD)**  
**ORDER BREAKDOWN :-**



# What is an Entity Relationship Diagram (ERD)?

ERD stands for entity relationship diagram. People also call these types of diagrams ER diagrams and Entity Relationship Models. An ERD visualizes the relationships between entities like people, things, or concepts in a database. An ERD will also often visualize the attributes of these entities.

By defining the entities, their attributes, and showing the relationships between them, an ER diagram can illustrate the logical structure of databases. This is useful for engineers hoping to either document a database as it exists or sketch out a design of a new database.



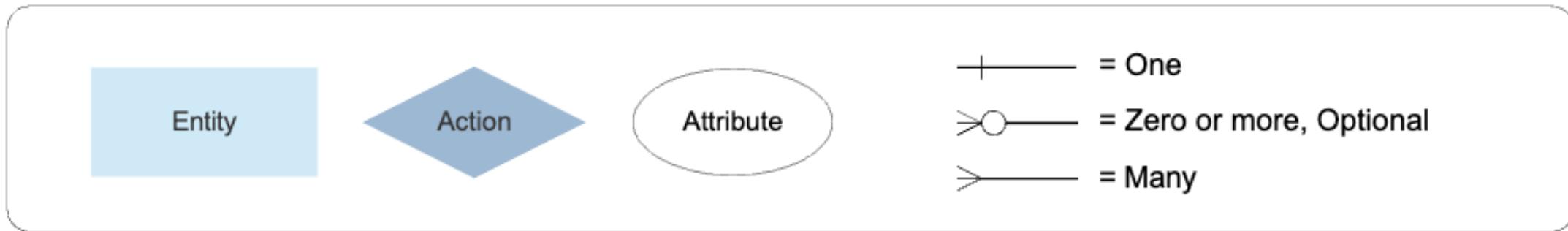
# Why Make an ERD?

An ER diagram can help businesses document existing databases and thereby troubleshoot logic or deployment problems or spot inefficiencies and help improve processes when a business wants to undertake business process re-engineering. ERDs can also be used to design and model new databases and make sure that engineers can identify any logic or design flaws before they're implemented in production.

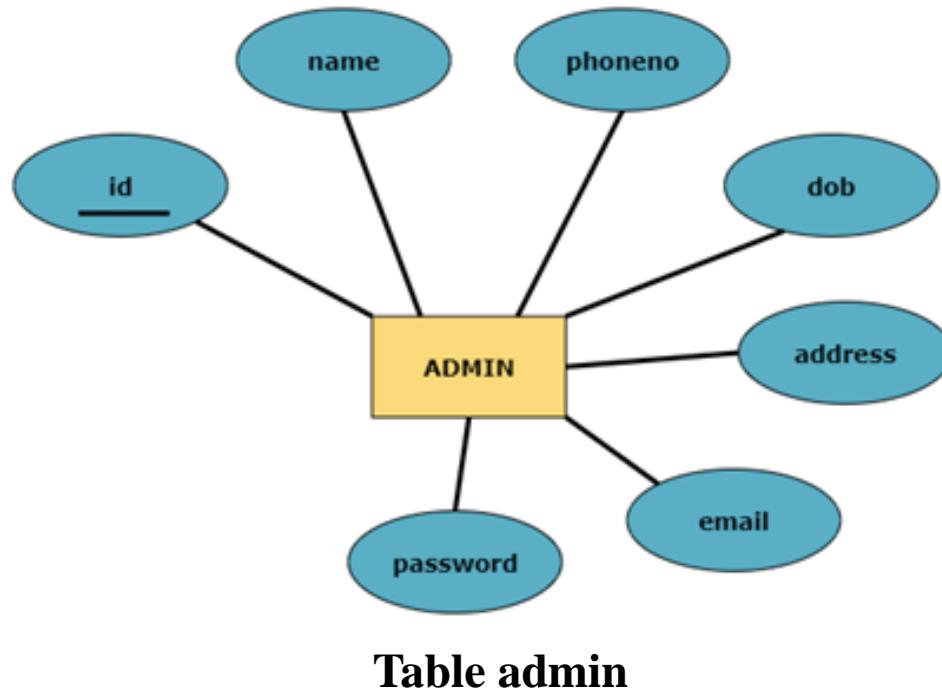
- Document an existing database structure
- Debug, troubleshoot, and analyse
- Design a new database
- Gather design requirements
- Business process re-engineering (BPR)

When documenting a system or process, looking at the system in multiple ways increases the understanding of that system. ERD diagrams are commonly used in conjunction with a [data flow diagram](#) to display the contents of a data store. They help us to visualize how data is connected in a general way, and are particularly useful for constructing a relational database.

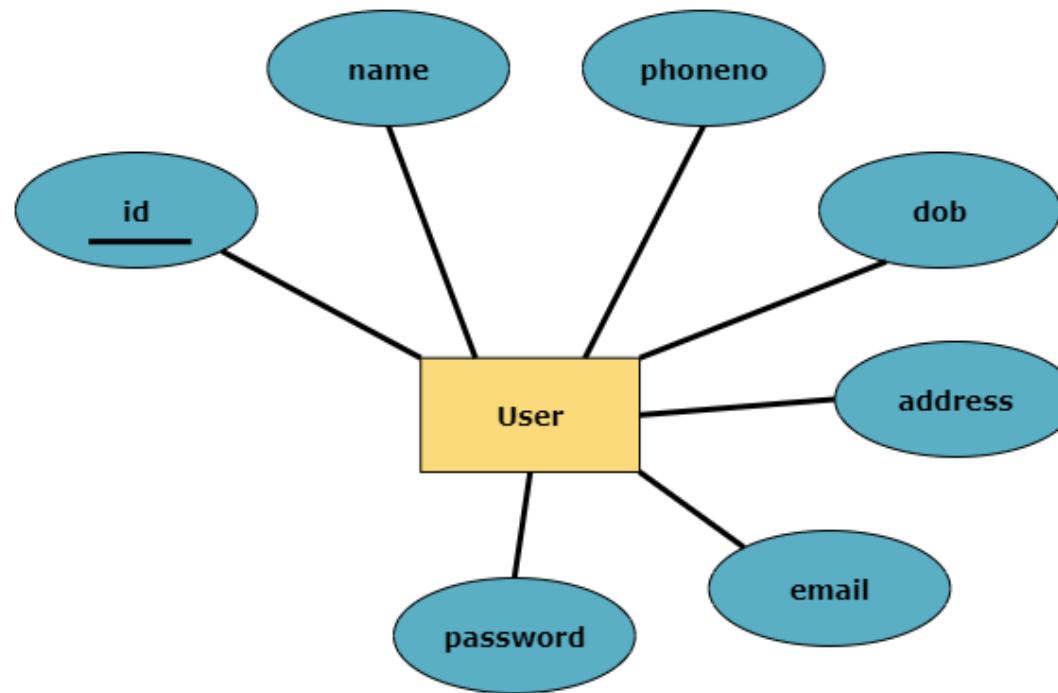
# ERD Notation



# ERD Notification:



# ERD Notification:



**Table users**

# ERD Notification:

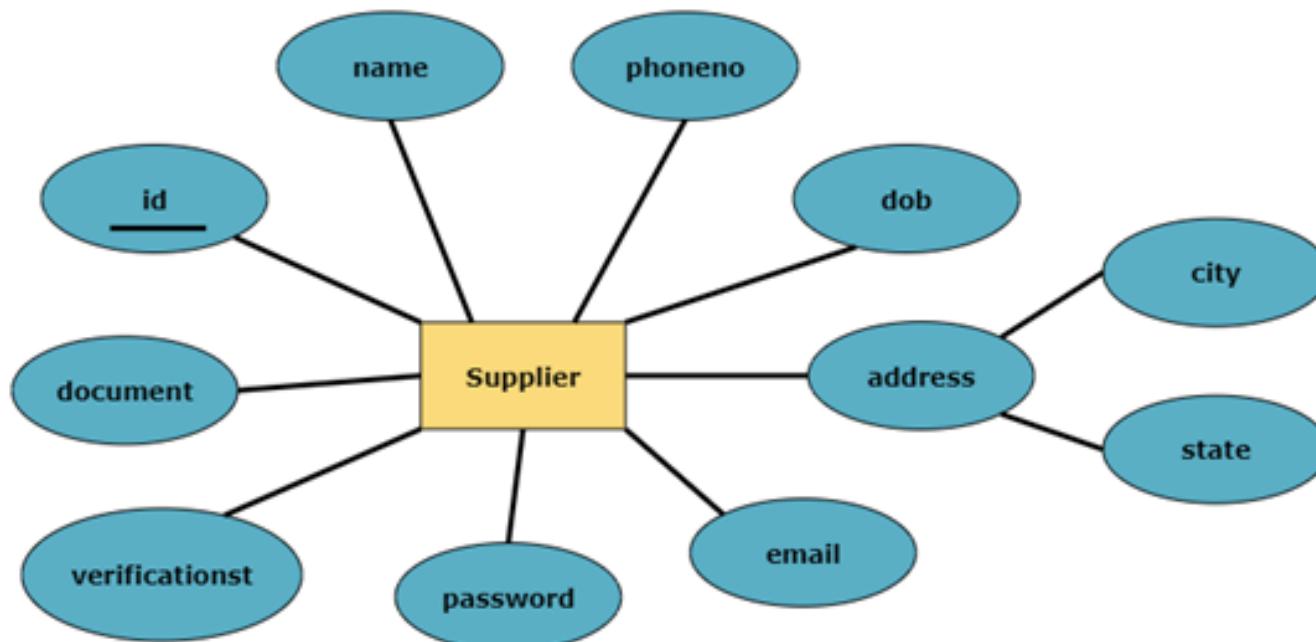
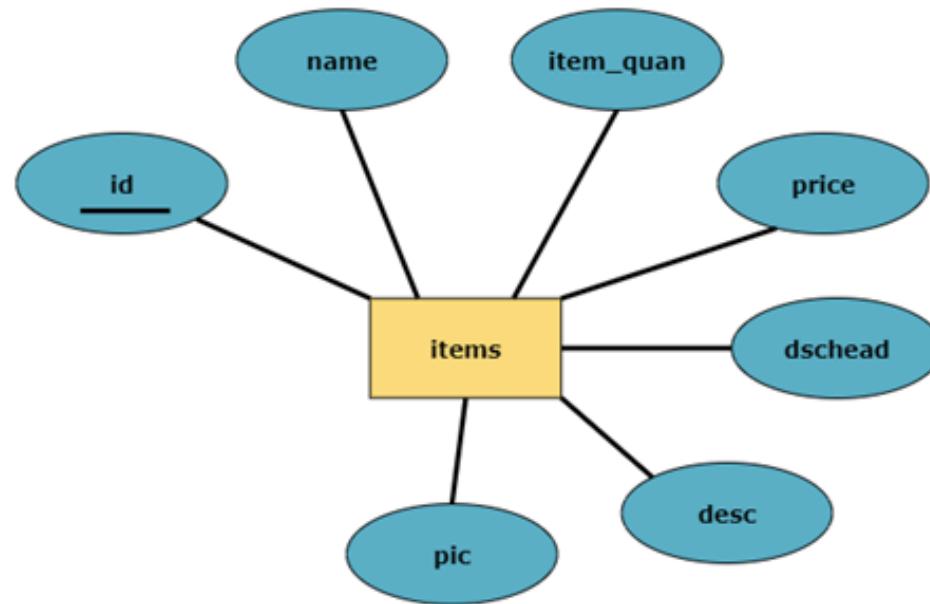


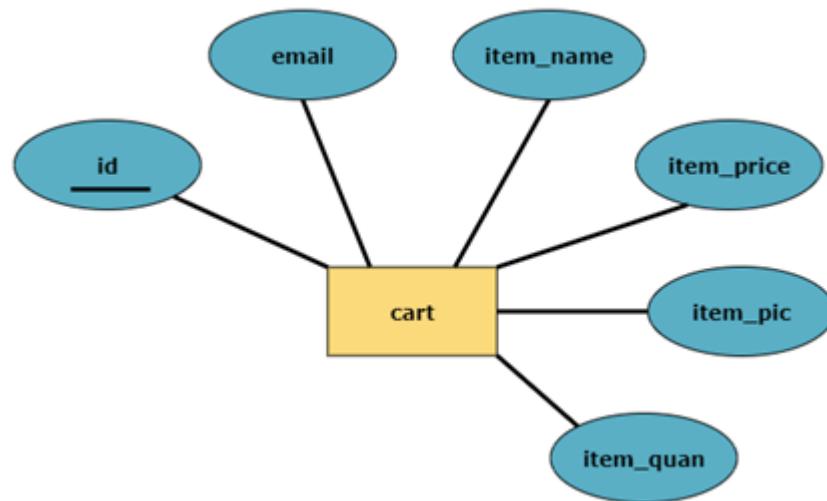
Table supplier

# ERD Notification:



**Table items**

# ERD Notification:



**Table cart**

# ERD Notification:

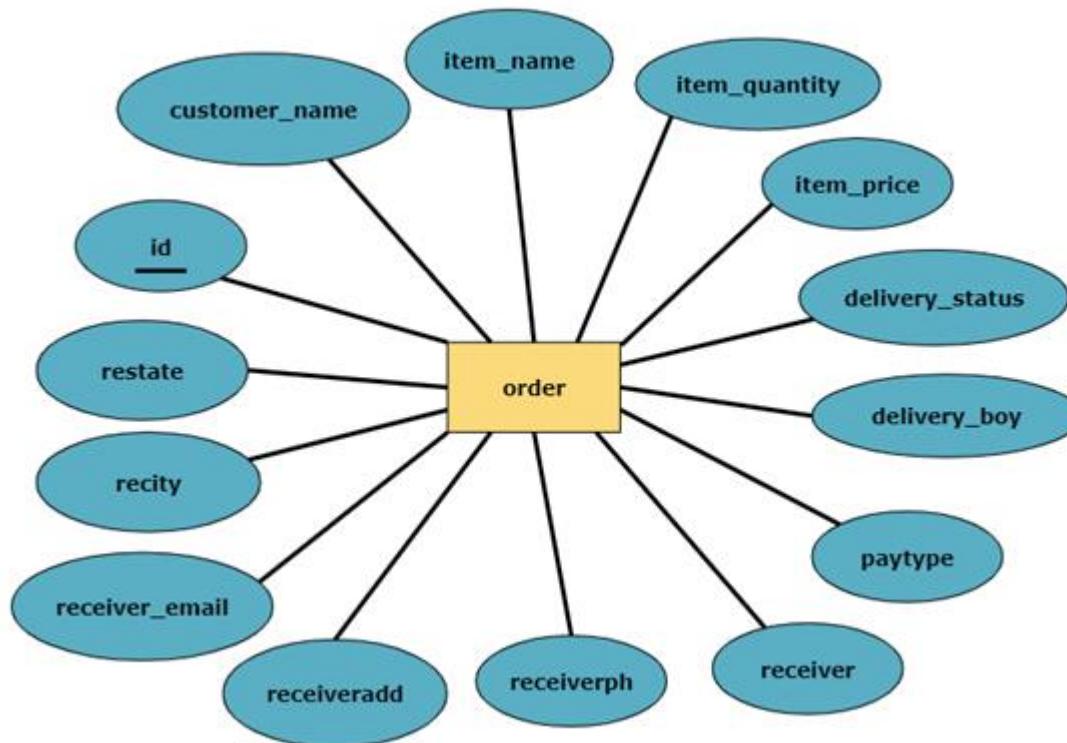
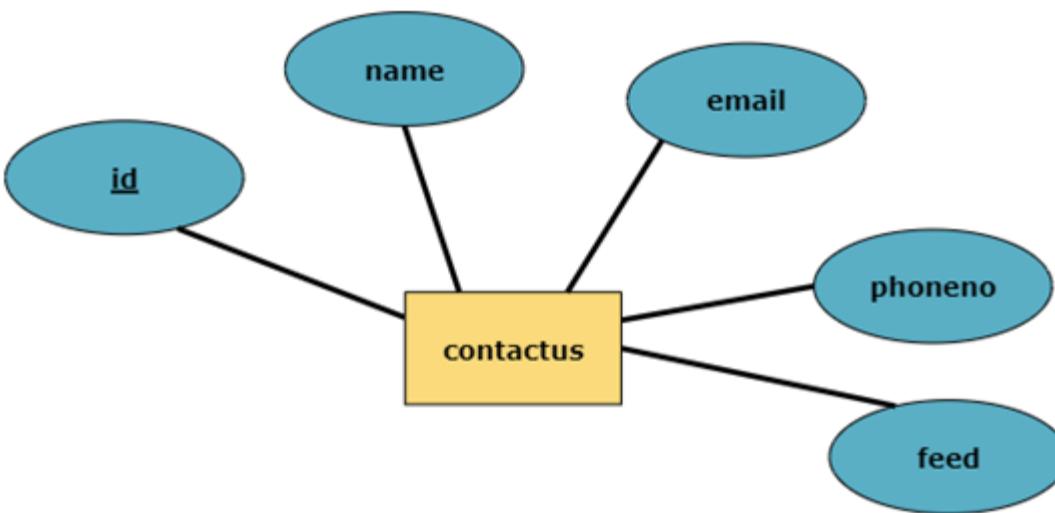


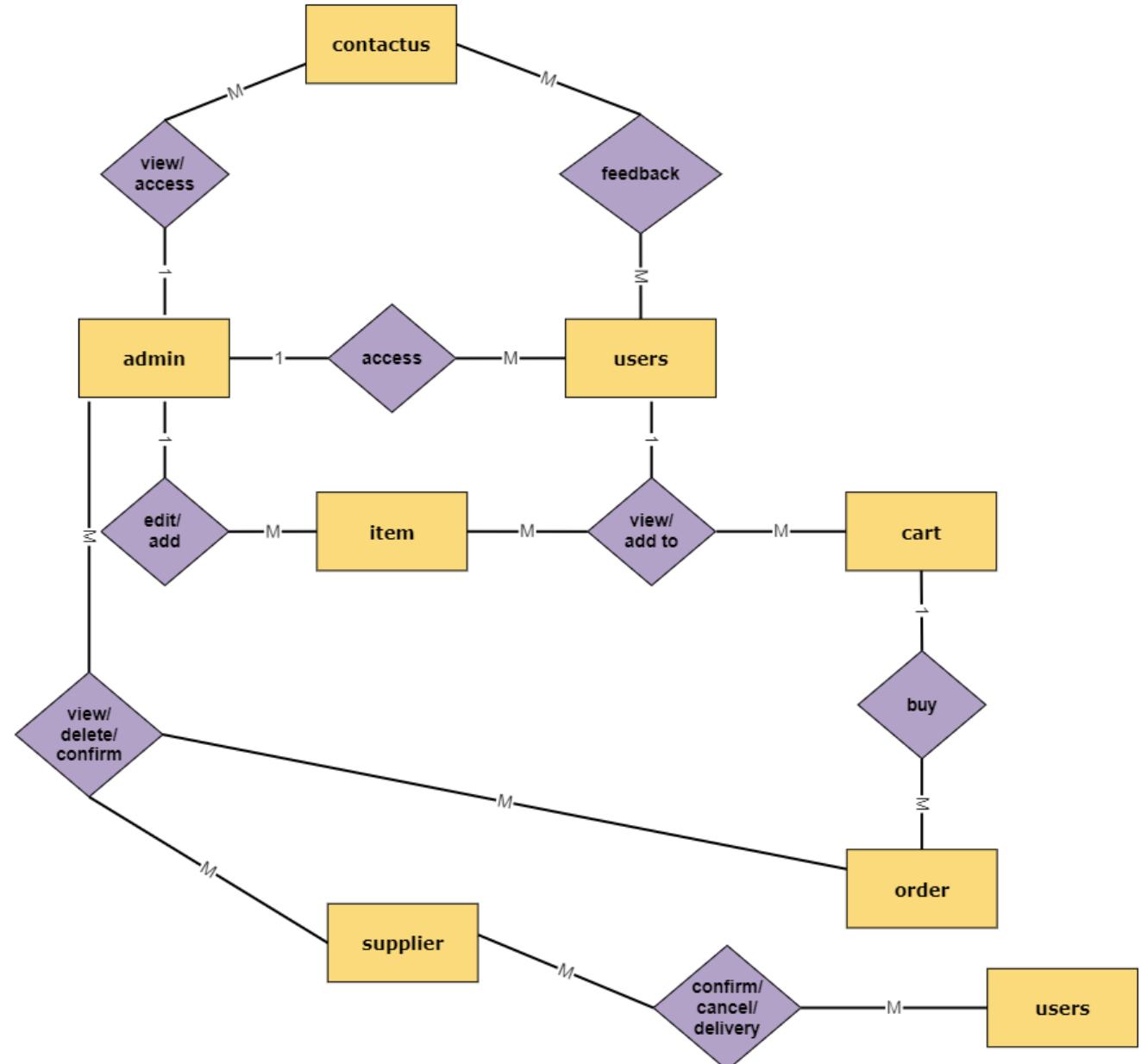
Table order

# ERD Notification:

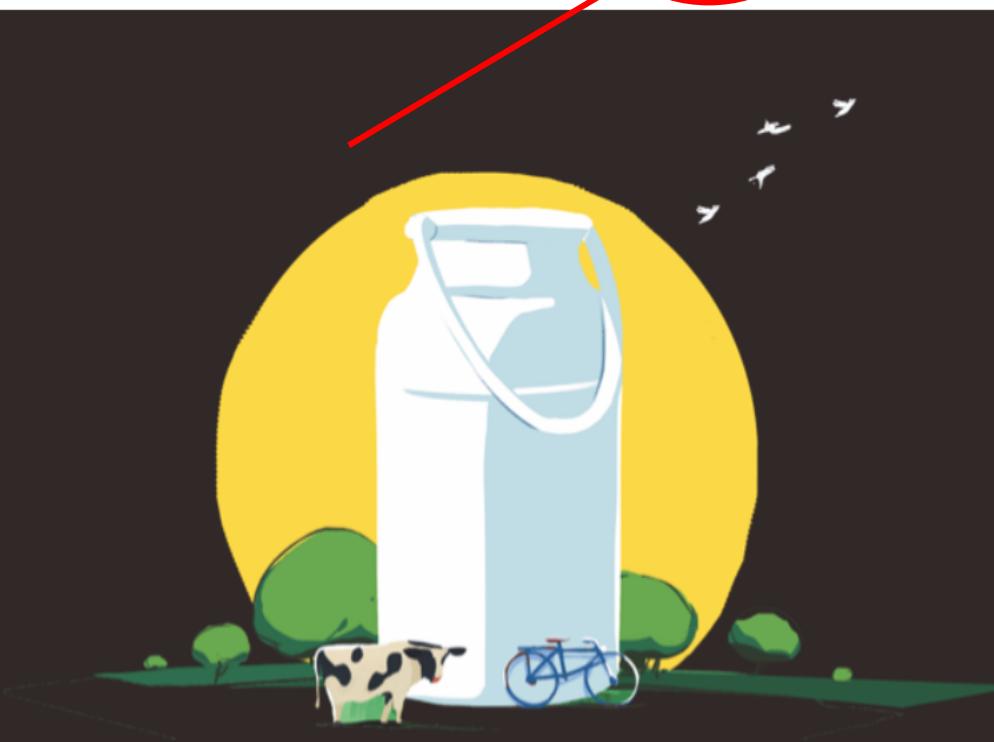


**Table contactus**

# Entity Relationship Diagram (ERD)



# Project Screenshots



Get upto 100% cashback on your First recharge On Dairy Fresh

Bask in the goodness of essential nutrients and unadulterated milk delivered right to your doorstep.

Natural, Fresh, Farm-to-Home Cow and Buffalo Milk!

TRY OUR PRODUCTS

max ₹ 150 \*T&C apply

## Why Dairy Fresh ?

We make sure every product you get has been fully tested for purity and freshness.

## Why Dairy Fresh ?

We make sure every product you get has been fully tested for purity and freshness.



### MILKING TWICE A DAY

FRESH MILK REACHES YOUR DOORSTEP  
WITHIN 24-48 HOURS



### 26 TESTS EVERYDAY

SCIENTIFIC QUALITY TESTING OF MILK  
FOR ADULTERATION AT EVERY STAGE



### PASTEURIZATION & PACKING AT 3°C

MAINTAINING MILK AT 3°C IMPROVES  
SHELF LIFE PREVENTS INCREASE IN  
BACTERIA COUNTS



### DOORSTEP DELIVERY EVERYDAY

FRESH MILK PROMISE WITH ADDED  
CONVENIENCE OF HOME DELIVERY



### HASSLE FREE MANAGEMENT

EASY TO USE WEB APPLICATION  
MANAGING YOUR DAILY ORDERS



### SELF TEST KIT

GET A COMPLIMENTARY TEST KIT FREE  
WITH YOUR TRIAL ORDER

## Our Products

Choose from a variety of fresh dairy products



### The Natural Sweetness of Cow Milk

A glass of milk may become your kid's favourite drink with Dairy Fresh's Cow Milk. The natural sweetness of our cow's milk is the hallmark of purity and becomes an instant favourite among kids. Moreover, we source our milk from a mix of Desi Gir cows, desi Sahiwal cows, crossbred Holstein & Jersey cows directly from the farmers, run it through 70 stringent tests for impurities and toxins and deliver it to you within 24-36 hours of milking. No preservatives, no milk powder or cream is added to the milk and the milk is not recombined in any form. We deliver the milk under the best cold chain right up to your doorstep.

#### Health benefits:

The milk you receive has an abundance of Vitamin D, B, B12, Calcium, Magnesium, Phosphorus, Potassium and amino acids - a combination of powerful nutrients essential for the development of your mind and body.

### Cow Milk

[Order Now](#)



### Rich in Nutrients, Low in Fat

If you are a person who loves the purest and creamiest milk from the countryside, Dairy Fresh's Buffalo Milk is the right product for you! The protein-rich milk you receive every morning is sourced from Murrah Buffaloes, directly procured from our farmers. We then test it for toxins and impurities before delivering it to you within 24-36 hours of milking. No preservatives, no milk powder or cream are added to the milk and it is not recombined in any form. We deliver the milk under the best cold chain right upto your doorstep.

#### Health benefits:

An excellent source of calcium and protein, and essential Vitamins like D and B12, low-fat milk in your daily diet can help fulfill your daily calorie requirement without adding fat to your diet.

### Low Fat Cow Milk



### The Rich Creaminess of Buffalo Milk

Have you always felt that low-fat milk never tasted like milk but tasted more like water? Give Country Delight Low Fat Cow Milk a try. Made from pure Cow milk, Dairy Fresh's LFCM balances the loss of fat with a higher amount of milk protein and minerals. We do this without adding anything to the milk which retains our milk's natural properties. Essentially, our Low Fat Cow Milk is not just low fat milk but high protein and mineral milk.

#### Health benefits:

A glass of buffalo milk everyday is a wholesome source of Calcium which is crucial for bone strength. It contains Potassium that stabilizes blood pressure and boasts of other essential minerals as well.

### Buffalo Milk

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## Footer design

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BDPL will use your personal information to provide personalized features to you on the Site and to provide for promotional offers to you through the Site and other channels. BDPL will also provide this information to its business associates and partners to get in touch with you when necessary to provide the services requested by you. BDPL will use this information to preserve transaction history as governed by existing law or policy. BDPL may also use the contact information internally to direct its efforts for product improvement, to contact you as a survey respondent, to notify you if you win any contest; and to send you promotional materials from its contest sponsors or advertisers. BDPL will also use this information to serve various promotional and advertising materials to you via display advertisements through the Google Ad network on third party websites. You can opt out of Google Analytics for Display Advertising and customize Google Display network ads using the Ads Preferences Manager. Information about Customers on an aggregate (excluding any information that may identify you specifically) covering Customer transaction data and Customer demographic and location data may be provided to partners of BDPL for the purpose of creating additional features on the website, creating appropriate merchandising or creating new products and services and conducting marketing research and statistical analysis of customer behavior and transactions.

BDPL will not use your financial information for any purpose other than to complete a transaction with you. BDPL does not rent, sell or share your personal information and will not disclose any of your personally identifiable information to third parties. In cases where it has your permission to provide products or services you've requested and such information is necessary to provide these products or services the information may be shared with BDPL's business associates and partners. BDPL may, however, share consumer information on an aggregate with its partners or third parties where it deems necessary. In addition BDPL may use this information for promotional offers, to help investigate, prevent or take action regarding unlawful and illegal activities, suspected fraud, potential threat to the safety

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## Terms and Conditions

This website www.dairyfresh.in is operated by Beejapuri Dairy Private Limited (BDPL), an India based company incorporated under the Indian Companies Act of 1956 . The policy is issued by 'BDPL'. By placing an order on this site you are entering into a purchase/sale transaction with BDPL.The terms and conditions are enumerated as follows

### Definitions

"Agreement" means the terms and conditions as detailed herein including all schedules, appendices, annexure, privacy policy and will include the references to this Agreement as amended, supplemented, varied or replaced from time to time.

www.dairyfresh.in or the "Site" means the online shopping portal owned and operated by BDPL which provides a platform to the shoppers to buy the products listed on the site. "Vendor"/"Seller"/"Affiliate" shall mean the person or any legal entity who offers for sale, sells the products or services on www.dairyfresh.in

"Customer" / "Buyer" shall mean the person or any legal entity who accepts the offer for sale on site by placing an order for and or purchases any products offered for sale on the site. "User"/ "You" means and includes you and/or any person or an entity including Vendor/Seller/Affiliate using or accessing the services provided on this Site.

### Eligibility

You represent and warrant that you are competent and eligible to enter into a legally binding agreement and have the requisite authority to bind the other party to this Agreement. You shall not use this Site if you are not competent to contract under the applicable laws, rules and regulations.

▼ How is Dairy fresh milk different from other milk?

We Dairy fresh engage directly with the farmer to procure fresh cow/buffalo milk, and deliver natural, fresh and unadulterated milk. Natural because there is no addition of milk powder or preservatives, and the milk reaches the consumer in 24-36 hours of milking. Unadulterated because we use scientific quality testing of milk for adulteration at every stage.

▼ What is your billing cycle?

Our standard billing cycle is every fortnight. We send a bill every week to our customers, along with a quality report.

► Do I have to order daily?

► How to get the Dairy fresh milk testkit?

► How do I use the milk testkit?

► How to contact your customer care?

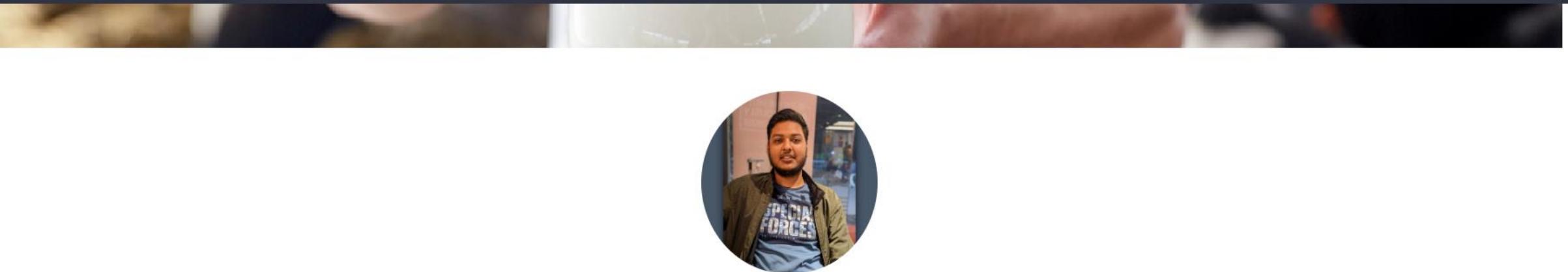
► Which are the products that Dairy fresh offers?

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## Our Story

50 years back, life was very simple. We used to have a cow in our backyard that gave us natural and fresh milk everyday. There was never a need to worry about adulteration since we owned the animal. Today, the milk we consume is either reconstituted/recombined with milk powder or takes days to reach our home post milking which is prone to adulteration. Started in 2019, Dairy Fresh is a bunch of Engineers who aim to bring back the basics of Milk. Dairy Fresh promises natural, fresh and unadulterated milk directly to the doorstep of the consumer. Consumer ordering and servicing happens through a first-of-its-kind website that completely takes away the hassle of managing ones milk requirements.

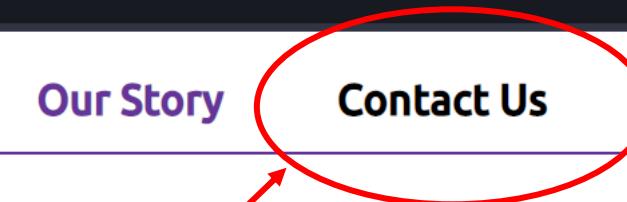


**Raj Poddar****Founder & CEO Dairy Fresh**

"We saw a clear problem to solve, a huge industry to tap into and a sustainable business model that we could scale using technology."

**Our team****Pages**[Home](#)[Our Story](#)**Legal**[Privacy Policy](#)[Terms & Conditions](#)**Support**[FAQs](#)[Contact Us](#)**Socials**

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### Contact Address :

Mondal Bazar, Kanchrapara

**Pin:** 743145

**Call:** +919073066073

**E-mail:** rajpoddar8907@gmail.com

### Enter your Query/Feedback

Enter Your Name

Enter Your Email

Enter Your PhoneNo.

Enter Query/Feedback

[SEND](#)[RESET](#)

**Login      Register**

xyz



8335898316



07 - 06 - 2000



kalyani



xyz@gmail.com



xyz@gmail.com



....



...|

user

SUBMIT

RESET

**phpMyAdmin**

(Recent tables) ...

dairyfresh

admin

cart

contactus

items

order

supplier

users

Create table

```
SELECT *  
FROM `users`  
LIMIT 0 , 30
```

# New user registered:

 Profiling [Inline] [ Edit ] [ Explain SQL ] [ Create PHP Code ] [ Refresh ]

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

Sort by key: None

+ Options

	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<b>id</b>	<b>name</b>	<b>phoneno</b>	<b>dob</b>	<b>address</b>	<b>email</b>	<b>password</b>
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1	raj	919073066073	2000-04-17	kanchrapara	rajpoddar8907@gmail	123
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	avishhek	919903322538	2002-01-26	kpa	avi@gmail	123
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	3	xyz	8335898316	2000-06-07	kalyani	xyz@gmail	8520

Check All / Uncheck All With selected:  Change  Delete  Export

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

Query results operations

 Print view  Print view (with full texts)  Export  Display chart  Create view Bookmark this SQL queryLabel:  Let every user access this bookmark



## Login   Register

rajpoddar8907@gmail.com



Remember Me

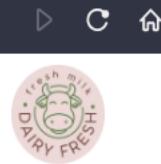
users

SUBMIT

RESET

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Users login

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xyz@gmail.com

User logged in



Get upto 100% cashback on your First recharge On Dairy Fresh

Bask in the goodness of essential nutrients and unadulterated milk delivered right to your doorstep.

Natural, Fresh, Farm-to-Home Cow and Buffalo Milk!

[TRY OUR PRODUCTS](#)

max ₹ 150 \*T&C apply

## Why Dairy Fresh ?

We make sure every product you get has been fully tested for purity and freshness.

## Our Products

Choose from a variety of fresh dairy products



### The Natural Sweetness of Cow Milk

A glass of milk may become your kid's favourite drink with Dairy Fresh's Cow Milk. The natural sweetness of our cow's milk is the hallmark of purity and becomes an instant favourite among kids. Moreover, we source our milk from a mix of Desi Gir cows, desi Sahiwal cows, crossbred Holstein & Jersey cows directly from the farmers, run it through 70 stringent tests for impurities and toxins and deliver it to you within 24-36 hours of milking. No preservatives, no milk powder or cream is added to the milk and the milk is not recombined in any form. We deliver the milk under the best cold chain right up to your doorstep.

#### Health benefits:

The milk you receive has an abundance of Vitamin D, B, B12, Calcium, Magnesium, Phosphorus, Potassium and amino acids - a combination of powerful nutrients essential for the development of your mind and body.

### Cow Milk

[Order Now](#)

Add to cart from here



### Rich in Nutrients, Low in Fat

If you are a person who loves the purest and creamiest milk from the countryside, Dairy Fresh's Buffalo Milk is the right product for you! The protein-rich milk you receive every morning is sourced from Murrah Buffaloes, directly procured from our farmers. We then test it for toxins and impurities before delivering it to you within 24-36 hours of milking. No preservatives, no milk powder or cream are added to the milk and it is not recombined in any form. We deliver the milk under the best cold chain right upto your doorstep.

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An excellent source of calcium and protein, and essential Vitamins like D and B12, low-fat milk in your daily diet can help fulfill your daily calorie requirement without adding fat to your diet.

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xyz@gmail.com

Cow Milk

Rs 36

1

submit

remove



Price(1)

36

Discount

47

0

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xyz@gmail.com

**Cow Milk**

Rs 36

User can manually increase  
the order size from here

Price(2)

72

Discount

48

0

Price(2)	72
Discount	0
Delivery Charge	40
<b>Total Cost</b>	<b>112</b>

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xyz@gmail.com

**Cow Milk**  
Rs 36 Each

**Check Out**

Name

Phone Number

Address

Email

Payment Option

Debit Card

Net Banking

COD



Your Order Have Been Placed successfully!!!!

Order complete

Pages

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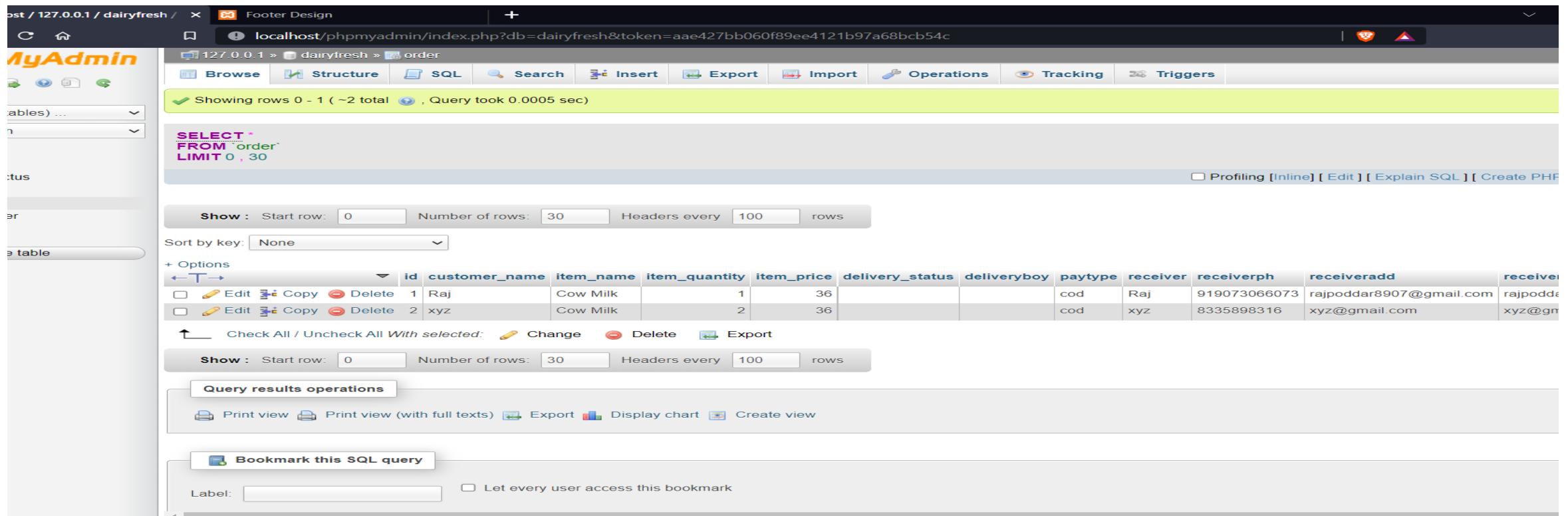
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# User xyz order stored in order table



The screenshot shows the phpMyAdmin interface for a database named 'dairyfresh'. The current page is 'localhost/phpmyadmin/index.php?db=dairyfresh&token=aae427bb060f89ee4121b97a68bcb54c'. The 'order' table is selected. A SQL query is displayed in the query editor:

```
SELECT * FROM `order` LIMIT 0 , 30
```

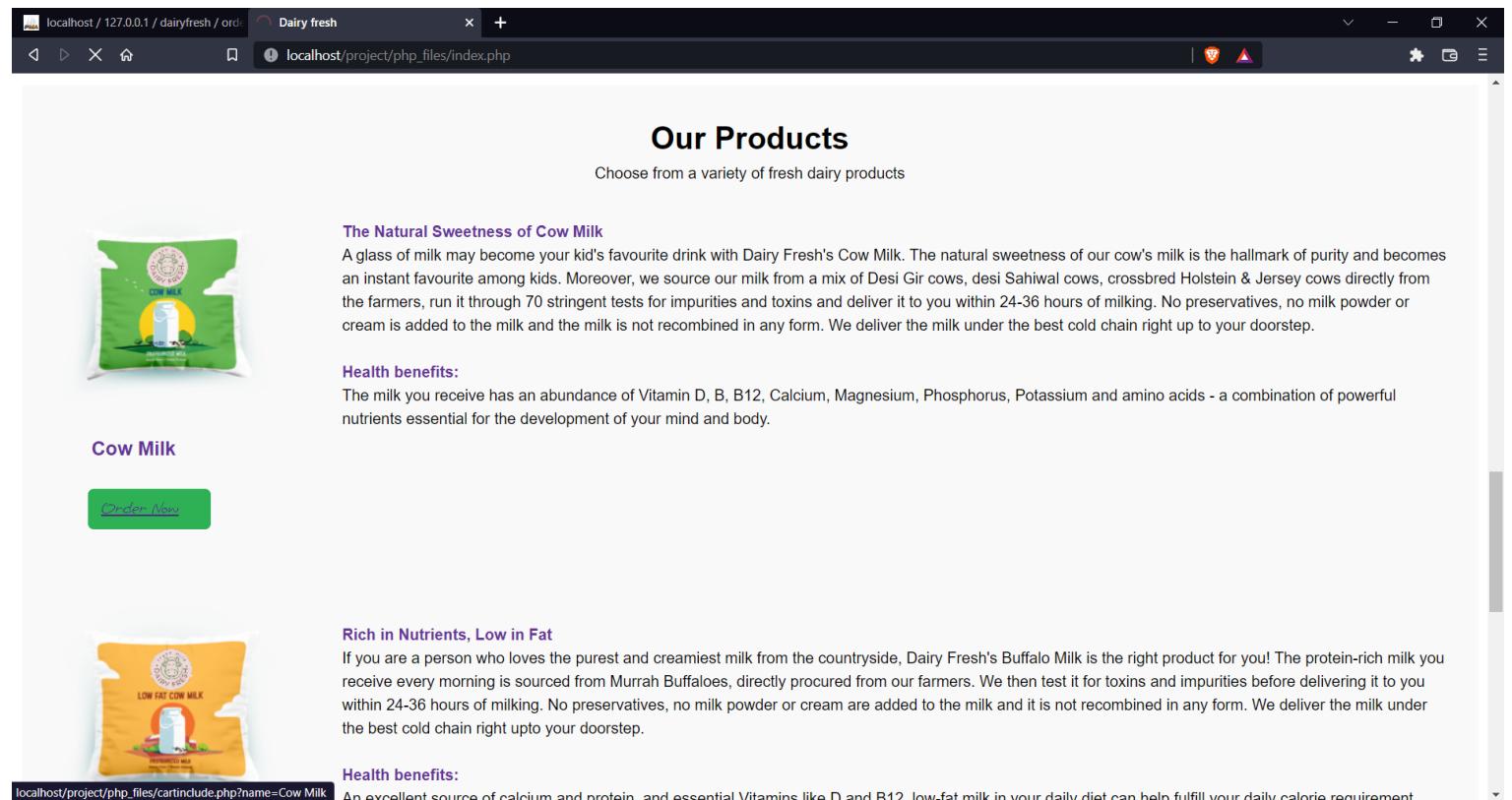
The results table shows two rows of data:

	<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<b>id</b>	<b>customer_name</b>	<b>item_name</b>	<b>item_quantity</b>	<b>item_price</b>	<b>delivery_status</b>	<b>deliveryboy</b>	<b>paytype</b>	<b>receiver</b>	<b>receiverph</b>	<b>receiveradd</b>	<b>received</b>
	<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1	Raj	Cow Milk	1	36			cod	Raj	919073066073	rajpoddar8907@gmail.com	rajpoddar8907@gmail.com
	<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	xyz	Cow Milk	2	36			cod	xyz	8335898316	xyz@gmail.com	xyz@gmail.com

Below the table are several buttons: 'Check All / Uncheck All With selected', 'Change', 'Delete', and 'Export'. There are also buttons for 'Print view', 'Print view (with full texts)', 'Export', 'Display chart', and 'Create view'. At the bottom, there is a 'Bookmark this SQL query' section with a 'Label:' input field and a checkbox for 'Let every user access this bookmark'.

If somebody tries to order without log in then an error will be displayed

---



[Home](#)[Order Now](#)[Our Story](#)[Contact Us](#)[Login In](#)[Register Now](#)

Sorry! You are Not logged in

Price(0)

0

Discount

54

0

# Registered Suppliers

The screenshot shows the phpMyAdmin interface for a database named 'dairyfresh'. The 'supplier' table is selected. The SQL query executed is:

```
SELECT * FROM supplier LIMIT 0 , 30
```

The results table displays the following data:

	id	name	phoneno	dob	address	email	password	verificationst
<input type="checkbox"/>	1	shuvam	918335898316	2000-06-12	Kanchrapara	shuvam@gmail	111	Confirm

Below the table, there are buttons for 'Edit', 'Copy', 'Delete', 'Change', 'Delete', and 'Export'. The status bar at the bottom shows system information including weather (28°C Haze), system icons, and language settings (ENG IN).

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## Login   Register

---

shuvam@gmail.com

...

Remember Me

supplier

SUBMIT

RESET

[Forgot Password ?](#)

**Supplier login**

# DASHBOARD

Supplier Info

Orders

Customer

Orders Delivered

Logout

**Supplier Panel not yet complete**

S.No	Customer Name	Item Name	Item Quantity	Item Price	Delivery status

# Registered admin

The screenshot shows the phpMyAdmin interface for the 'dairyfresh' database. The 'admin' table is selected, displaying one row of data.

Table Structure:

	id	name	phoneno	dob	address	email	password
<input type="checkbox"/>	1	raj	9073066073	2000-04-17	13/2, Helwet RD, Mondal Bazar	rajpoddar8907@gmail	123456

SQL Query:

```
SELECT *  
FROM `admin`  
LIMIT 0 , 30
```

Show: Start row: 0 Number of rows: 30 Headers every 100 rows

+ Options

Check All / Uncheck All With selected:  Change  Delete  Export



Home

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Our Story

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## Login   Register

rajpoddar8907@gmail.com

.....

Remember Me

admin

SUBMIT

RESET

admin login

[Forgot Password ?](#)

# DASHBOARD

Home

Delivery Boy

Income

Inventory

Logout

## Admin Info

Name

PhoneNo.

DOB

Email

Address

Password

\*\*Note:- Password is required for changing any details..

# DASHBOARD

Home

Delivery Boy

Income

Inventory

Logout



ID No.	Supplier Name	Phone No.	DOB	Address	Email	Verification status
1	shuvam	918335898316	2000-06-12	Kanchrapara	shuvam@gmail.com	Confirm

# DASHBOARD

[Home](#)[Delivery Boy](#)[Income](#)[Inventory](#)[Logout](#)

**Cow Milk**  
**Rs 36**



Total Stock

**Low Fat Cow Milk**  
**Rs 45**



Total Stock

**Buffalo Milk**  
**Rs 40**



Total Stock

# DASHBOARD

[Home](#)[Delivery Boy](#)[Income](#)[Inventory](#)[Logout](#)**Cow Milk**  
**Rs 36**

Total Stock

**Low Fat Cow Milk**  
**Rs 45**

Total Stock

**Buffalo Milk**  
**Rs 40**

Total Stock

localhost / 127.0.0.1 / dairyfresh / adm

Dairy fresh

localhost/project/php\_files/index.php



Home Order Now Our Story Contact Us

Login In Register Now

Get upto 100% cashback on your First recharge On Dairy Fresh  
Bask in the goodness of essential nutrients and unadulterated milk delivered right to your doorstep.  
Natural, Fresh, Farm-to-Home Cow and Buffalo Milk!

TRY OUR PRODUCTS

max ₹ 150 \*T&C apply

A red arrow points from the word "Home" in the top navigation bar down to the "TRY OUR PRODUCTS" button.

Back to home screen after logout

Why Dairy Fresh ?

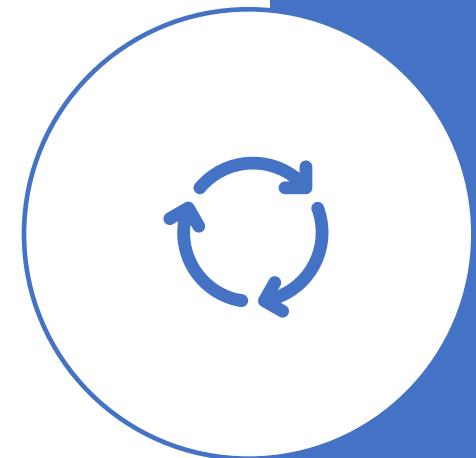
We make sure every product you get has been fully tested for purity and freshness.

# Model followed

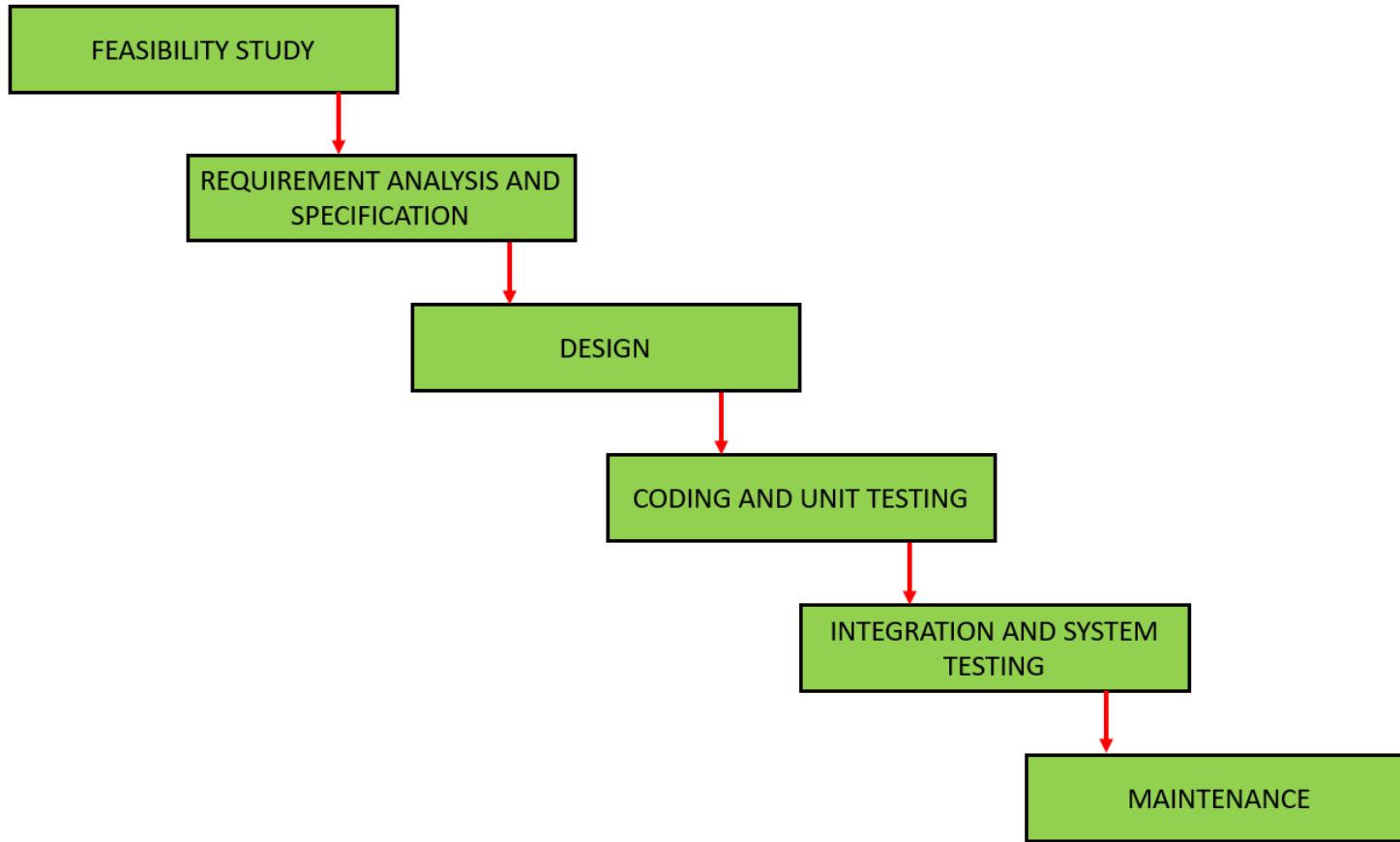
## Is classical waterfall model

It is the basic **software development life cycle** model. It is very simple but idealistic. Earlier this model was very popular but nowadays it is not used. But it is very important because all the other software development life cycle models are based on the classical waterfall model.

The classical waterfall model divides the life cycle into a set of phases. This model considers that one phase can be started after the completion of the previous phase. That is the output of one phase will be the input to the next phase. Thus the development process can be considered as a sequential flow in the waterfall. Here the phases do not overlap with each other. The different sequential phases of the classical waterfall model are shown in the below figure:



# Classical Waterfall model



# Phases in brief detail:

---

- 1. Feasibility Study:** The main goal of this phase is to determine whether it would be financially and technically feasible to develop the software.
  
- 2. Requirements analysis and specification:** The aim of the requirement analysis and specification phase is to understand the exact requirements of the customer and document them properly. This phase consists of two different activities.
  - 1. Requirement gathering and analysis:** Firstly all the requirements regarding the software are gathered from the customer and then the gathered requirements are analyzed. The goal of the analysis part is to remove incompleteness (an incomplete requirement is one in which some parts of the actual requirements have been omitted) and inconsistencies (an inconsistent requirement is one in which some part of the requirement contradicts some other part).
  - 2. Requirement specification:** These analyzed requirements are documented in a software requirement specification (SRS) document. SRS document serves as a contract between the development team and customers. Any future dispute between the customers and the developers can be settled by examining the SRS document.

# Phases in brief detail: (continued)

1. **Design:** The goal of this phase is to convert the requirements acquired in the SRS into a format that can be coded in a programming language. It includes high-level and detailed design as well as the overall software architecture. A Software Design Document is used to document all of this effort (SDD)
2. **Coding and Unit testing:** In the coding phase software design is translated into source code using any suitable programming language. Thus each designed module is coded. The aim of the unit testing phase is to check whether each module is working properly or not.
3. **Integration and System testing:** Integration of different modules are undertaken soon after they have been coded and unit tested. Integration of various modules is carried out incrementally over a number of steps. During each integration step, previously planned modules are added to the partially integrated system and the resultant system is tested. Finally, after all the modules have been successfully integrated and tested, the full working system is obtained and system testing is carried out on this. System testing consists of three different kinds of testing activities as described below :
  1. **Alpha testing:** Alpha testing is the system testing performed by the development team.
  2. **Beta testing:** Beta testing is the system testing performed by a friendly set of customers.
  3. **Acceptance testing:** After the software has been delivered, the customer performed acceptance testing to determine whether to accept the delivered software or reject it.

# Phases in brief detail: (continued)

**1. Maintenance:** Maintenance is the most important phase of a software life cycle. The effort spent on maintenance is 60% of the total effort spent to develop a full software. There are basically three types of maintenance :

- **Corrective Maintenance:** This type of maintenance is carried out to correct errors that were not discovered during the product development phase.
- **Perfective Maintenance:** This type of maintenance is carried out to enhance the functionalities of the system based on the customer's request.
- **Adaptive Maintenance:** Adaptive maintenance is usually required for porting the software to work in a new environment such as working on a new computer platform or with a new operating system.

# **Advantages of Classical Waterfall Model**

The classical waterfall model is an idealistic model for software development. It is very simple, so it can be considered the basis for other software development life cycle models. Below are some of the major advantages of this SDLC model:

- This model is very simple and is easy to understand.
- Phases in this model are processed one at a time.
- Each stage in the model is clearly defined.
- This model has very clear and well-understood milestones.
- Process, actions and results are very well documented.
- Reinforces good habits: define-before- design, design-before-code.
- This model works well for smaller projects and projects where requirements are well understood.

# Drawbacks of Classical Waterfall Model

The classical waterfall model suffers from various shortcomings. Below are some major drawbacks of this model:

- **No feedback path:** In the classical waterfall model evolution of software from one phase to another phase is like a waterfall. It assumes that no error is ever committed by developers during any phase. Therefore, it does not incorporate any mechanism for error correction.
- **Difficult to accommodate change requests:** This model assumes that all the customer requirements can be completely and correctly defined at the beginning of the project, but actually customers' requirements keep on changing with time. It is difficult to accommodate any change requests after the requirements specification phase is complete.
- **No overlapping of phases:** This model recommends that a new phase can start only after the completion of the previous phase. But in real projects, this can't be maintained. To increase efficiency and reduce cost, phases may overlap.

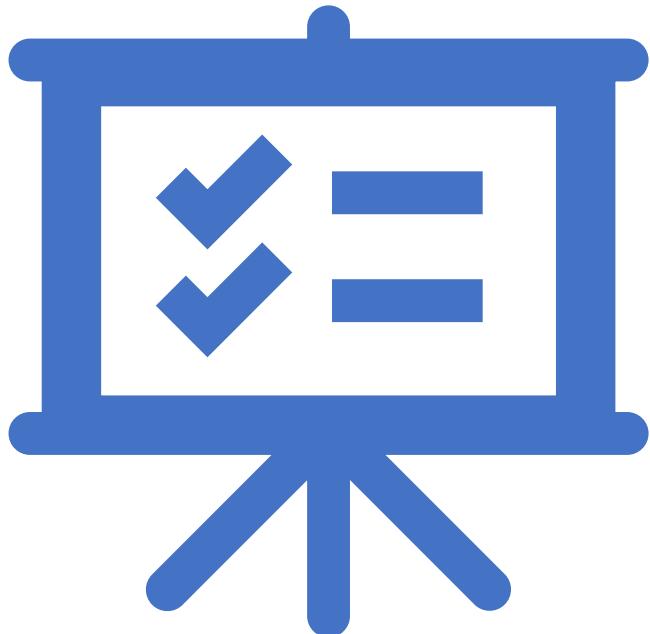
# SECURITY FEATURES



The editing of database and the result is all protected by the password, which only administers can access. (In this case it's us.)



The admin side is password protected. Only authorized user can access the admin side.



# CODING STANDARD

We have followed the coding standards throughout this application

- ✓ Each table name is given in such a manner that it indicates its use
- ✓ Each script is properly documented by comments to clarify its presence.
- ✓ Variables names are related to the process and the behavior of the entity.
- ✓ We have used tab instead of space in our project.
- ✓ Keywords are never used as variable name in our project

# TESTING

The aim of testing process is to identify all defects existing in software product. Testing a program consists of subjecting the program to as test inputs and observing if the program behaves expectedly or not. If the program fails by any means or gives unexpected results than the failure occurred are noted for later debugging and corrections.

# Testing Plan

The testing process is a process that to a greater extends runs in parallel with other processes. As the same thing applied for the whole system for testing and once the entire module works perfectly as desired, at later stages test suite are made to test in integrated environment to check for proper functioning. So, the software is tested at various levels by various testing techniques. A well-rounded test plan notes any risk factors that jeopardize and includes a testing schedule. So, we can say that Test planning details the activities, dependencies and effort required to conducting the system test.

# Testing Strategy

The test strategy is a formal description of how a software product will be tested. A test strategy is developed for all levels of testing as and when required. The testing team analysis the requirements, writes the test strategy and reviews the plan with the project team. The test plan may include test cases, conditions and the test environment, a list of related tasks, pass/fail criteria and risk assessment. As we were working in a team it was a bit difficult to check the work done as no individual was assigned for that particular task or work. Moreover, checking the work done was very important to reduce risk factor. Right from the starting we planned to adopt one technique called Assessment by rotation. Thus, the work done by one member was assessed by the other for some time and again revolved for other level check reduced the errors.

# Testing Methods

Testing methods are mainly divided into two parts:

**Black Box Testing**

**White Box Testing**

**1) Black box testing:** It is the testing without the knowledge of the internal working of the item being tested. For this testing test groups are often used. Due to the nature of this testing the test planning can begin as soon as the specifications are written. This testing has some advantages like it is more effective on larger units of code than glass box testing, tester needs no knowledge of implementation, including specific programming languages, tester and programmer are independent of each other, tests are done from a user's point of view, will help to expose any ambiguities or inconsistencies in the specifications, test cases can be designed as soon as the specifications are complete.

**2)White box testing:** It is the testing strategy that deals with the internal logic and structure of the code. White box testing is also called as the glass testing, structural testing, open testing or the clear box testing. The advantages of the white box testing are that as the knowledge of internal coding structure is needed, it becomes easy to find out which type of input data can help in testing the application effectively. It helps in optimizing the code helping in removing the extra code which may cause hidden defects in the system.

# Testing done

- ✓ Black Box Testing done by me.
- ✓ White Box Testing done by me.

# LIMITATION OF THE PROJECT

Many models are still in development phase and will be further optimized by further updates, like:

- Payment
- Forget Password
- Admin Panel
- Supplier Panel

# CONCLUSION

In today's Web development, a good page design is essential. A bad design will lead to the loss of visitors and that can lead to a loss of business. In general, a good page layout has to satisfy the basic elements of a good page design. This includes color contrast, text organization, font selection, style of a page, page size, graphics used, and consistency. In order to create a well-designed page for a specific audience. The better the page design, the more hits a page will get. That implies an increase in accessibility and a possible increase in business. So, I think that I have delivered a quality product from my end by the designing stand point and I am very satisfied with how the things have panned out. I will keep improving and keeping a track of all the feedbacks and will soon upgrade the website in the next generation.

# BIBLIOGRAPHY

## **BOOK REFERRED:**

- ♣ Book Name: PHP6 and My SQL
- ♣ Author Name: Steve Suehring, Tim Converse, and Joyce Park

## **SITE REFERRED:**

- + <http://www.w3schools.com>
- + <http://www.dhudhsagar.com>
- + <http://www.banasdairy.com>
- + <https://lucid.co/>
- + <https://www.smartdraw.com/>

# Thank you

