

Project Report

On

Dairy Farm Shop management System

Acknowledgement

I would like to mention our sincere gratitude towards University/College, for giving us the opportunity to carry out our project.

I would like to express our heart full gratitude towards our guide, his/her invaluable advice for the successful completion of this dissertation.

I also like to extend our sincere thanks to the staff of University/College for their invaluable help and support.

Finally, I take this opportunity to mention our sincere thanks to one and all those who helped us directly or indirectly for the completion of our project.

Introduction

The Dairy Farm Shop Management System (DFSMS) is a web based application that can be accessed over the web. This system can be used to automate the workflow of dairy shop and their invoices.

The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of MySQL Server and all the user interfaces has been designed using the PHP technologies. The database connectivity is planned using the “MySQL Connection” methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

DFSMS is a web-based application which manages the products of dairy shop. It has one module i.e. admin who manages all the functions of the dairy shop.

Admin Features:

Dashboard: In this section, admin can see all detail in brief like Total listed categories, companies, products and also see the sales.

Category: In this section, admin can add new categories and edit, delete old categories.

Company: In this section, admin can add new companies and edit, delete old companies.

Product: In this section, admin can add new products and edit old products.

Search: In this section, admin can search for a product then add the product into the cart and generate invoice /receipt.

Invoices: In this section, admin can view all generated invoices/receipts.

Reports: In this section, admin can generate two reports, one is B/w date and another one is for sales.

Admin can also update his profile, change the password and recover the password.

Purpose of the Project

This project is aimed at developing a web based dairy farm shop management System Tool, which is of importance to either a small dairy shop or big dairy shop. The Dairy Shop Management System is a software based application works as a simple Dairy Software to maintain daily milk record and maintain reports.

Solution of these Problem

The development of the new system contains the following activities, which try to automate the entire process keeping in view of the database integration approach.

1. User friendliness is provided in the application with various controls.
2. The system makes the overall project management much easier and flexible.
3. There is no risk of data mismanagement at any level while the project development is under process.
4. It provides high level of security with different level of authentication.

5. User friendliness is provided in the application with various controls.
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8. It provides high level of security with different level of authentication.

System Analysis

After analyzing the requirements of the task to be performed, the next step is to analyze the problem and understand its context. The first activity in the phase is studying the existing system and other is to understand the requirements and domain of the new system. Both the activities are equally important, but the first activity serves as a basis of giving the functional specifications and then successful design of the proposed system. Understanding the properties and requirements of a new system is more difficult and requires creative thinking and understanding of existing running system is also difficult, improper understanding of present system can lead diversion from solution.

STUDY OF THE SYSTEM

GUI'S

In the flexibility of the uses the interface has been developed a graphics concept in mind, associated through a browses interface. The GUI'S at the top level have been categorized as

1. Administrative user interface
2. The operational or generic user interface

The administrative user interface concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection. The interfaces help the administrations with all the transactional states like Data insertion, Data deletion and Date updation along with the extensive data search capabilities.

The operational or generic user interface helps the users upon the system in transactions through the existing data and required services. The operational user interface also helps the ordinary users in managing their own

information helps the ordinary users in managing their own information in a customized manner as per the assisted flexibilities.

HARDWARE SPEDIFICATIONS

HARDWARE REQUIREMENTS:

- PIV 2.8 GHz Processor and Above
- RAM 512MB and Above
- HDD 20 GB Hard Disk Space and Above
-

SOFTWARE REQUIREMENTS:

XAMPP

XAMPP is an easy to install Apache distribution containing MySQL, PHP and Perl.

XAMPP is really very easy to install and to use - just download, extract and start.

- WINDOWS OS (XP / 2000 / 200 Server / 2003 Server)
- Apache Server
- PHP 5.6 or Above Version
- phpMyAdmin 4.7.9
- MySQL

Programming Language

- ✓ HTML
- ✓ CSS
- ✓ JQuery
- ✓ PHP
- ✓ MYSQL

Feasibility Report

Preliminary investigation examine project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- Technical Feasibility
- Operation Feasibility
- Economical Feasibility

Technical Feasibility

The technical issue usually raised during the feasibility stage of the investigation includes the following:

- Does the necessary technology exist to do what is suggested?
- Do the proposed equipments have the technical capacity to hold the data required to use the new system?
- Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?
- Can the system be upgraded if developed?
- Are there technical guarantees of accuracy, reliability, ease of access and data security?

Earlier no system existed to cater to the needs of 'Secure Infrastructure Implementation System'. The current system developed is technically feasible. It is a web based user interface. Thus it provides an easy access to the users. The database's purpose is to create, establish and maintain a workflow among various entities in order to facilitate all concerned users in

their various capacities or roles. Permission to the users would be granted based on the roles specified. Therefore, it provides the technical guarantee of accuracy, reliability and security. The software and hardware requirements for the development of this project are not many and are available as free as open source. The work for the project is done with the current equipment and existing software technology. Necessary bandwidth exists for providing a fast feedback to the users irrespective of the number of users using the system.

Operational Feasibility

Proposed projects are beneficial only if they can be turned out into information system. That will meet the organization's operating requirements. Operational feasibility aspects of the project are to be taken as an important part of the project implementation. Some of the important issues raised are to test the operational feasibility of a project includes the following: -

- Is there sufficient support for the management from the users?
- Will the system be used and work properly if it is being developed and implemented?
- Will there be any resistance from the user that will undermine the possible application benefits?

This system is targeted to be in accordance with the above-mentioned issues. Beforehand, the management issues and user requirements have been taken into consideration. So there is no question of resistance from the users that can undermine the possible application benefits.

The well-planned design would ensure the optimal utilization of the computer resources and would help in the improvement of performance status.

Economic Feasibility

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economical feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the costs.

The system is economically feasible. It does not require any addition hardware or software. Since the interface for this system is developed using the existing resources and technologies. There is nominal expenditure and economical feasibility for certain.

System Design

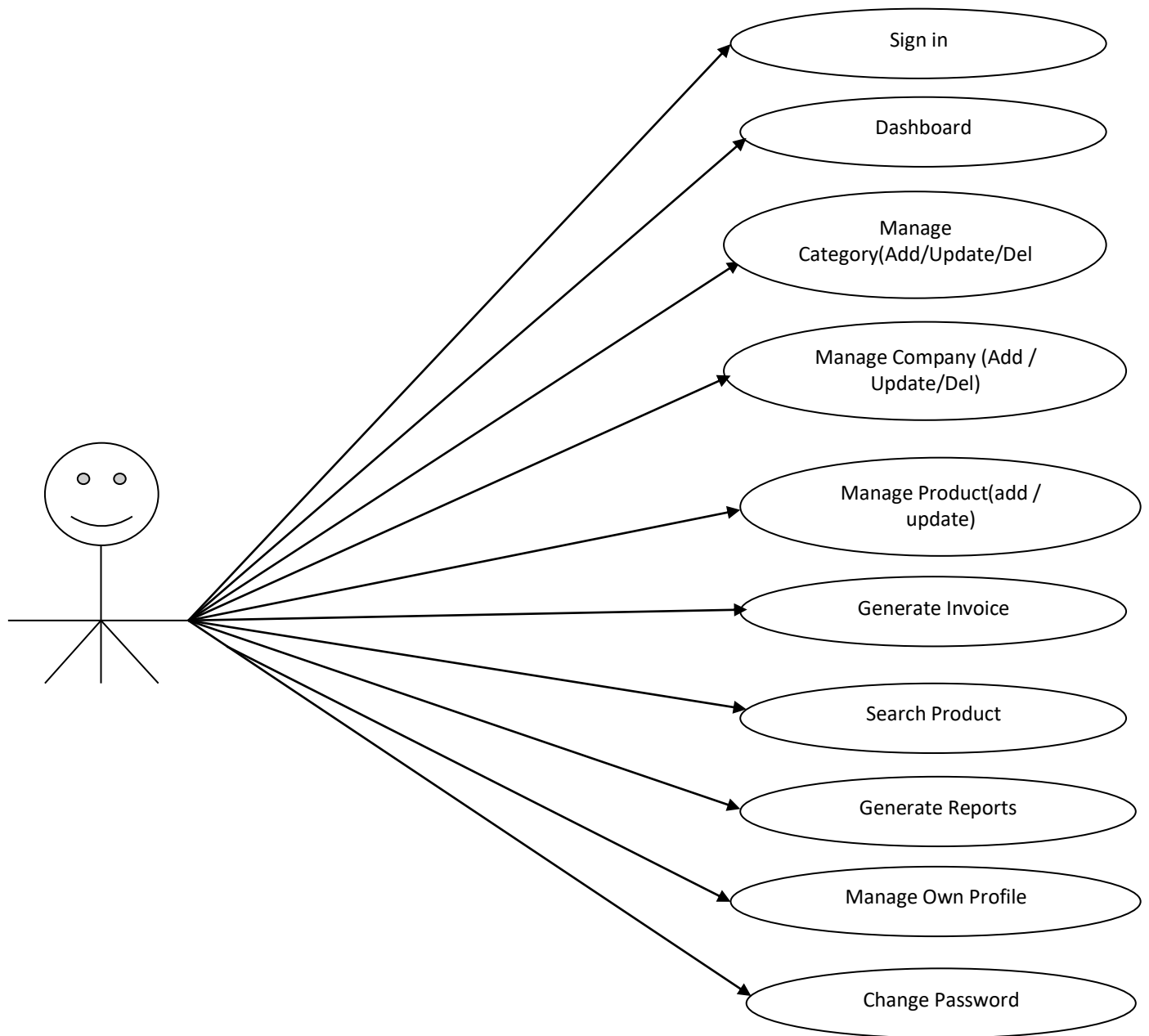
INTRODUCTION

Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm and area of application. Design is the first step in the development phase for any engineered product or system. The designer's goal is to produce a model or representation of an entity that will later be built. Beginning, once system requirement have been specified and analyzed, system design is the first of the three technical activities -design, code and test that is required to build and verify software.

The importance can be stated with a single word "Quality". Design is the place where quality is fostered in software development. Design provides us with representations of software that can assess for quality. Design is the only way that we can accurately translate a customer's view into a finished software product or system. Software design serves as a foundation for all the software engineering steps that follow. Without a strong design we risk building an unstable system – one that will be difficult to test, one whose quality cannot be assessed until the last stage.

During design, progressive refinement of data structure, program structure, and procedural details are developed reviewed and documented. System design can be viewed from either technical or project management perspective. From the technical point of view, design is comprised of four activities – architectural design, data structure design, interface design and procedural design.

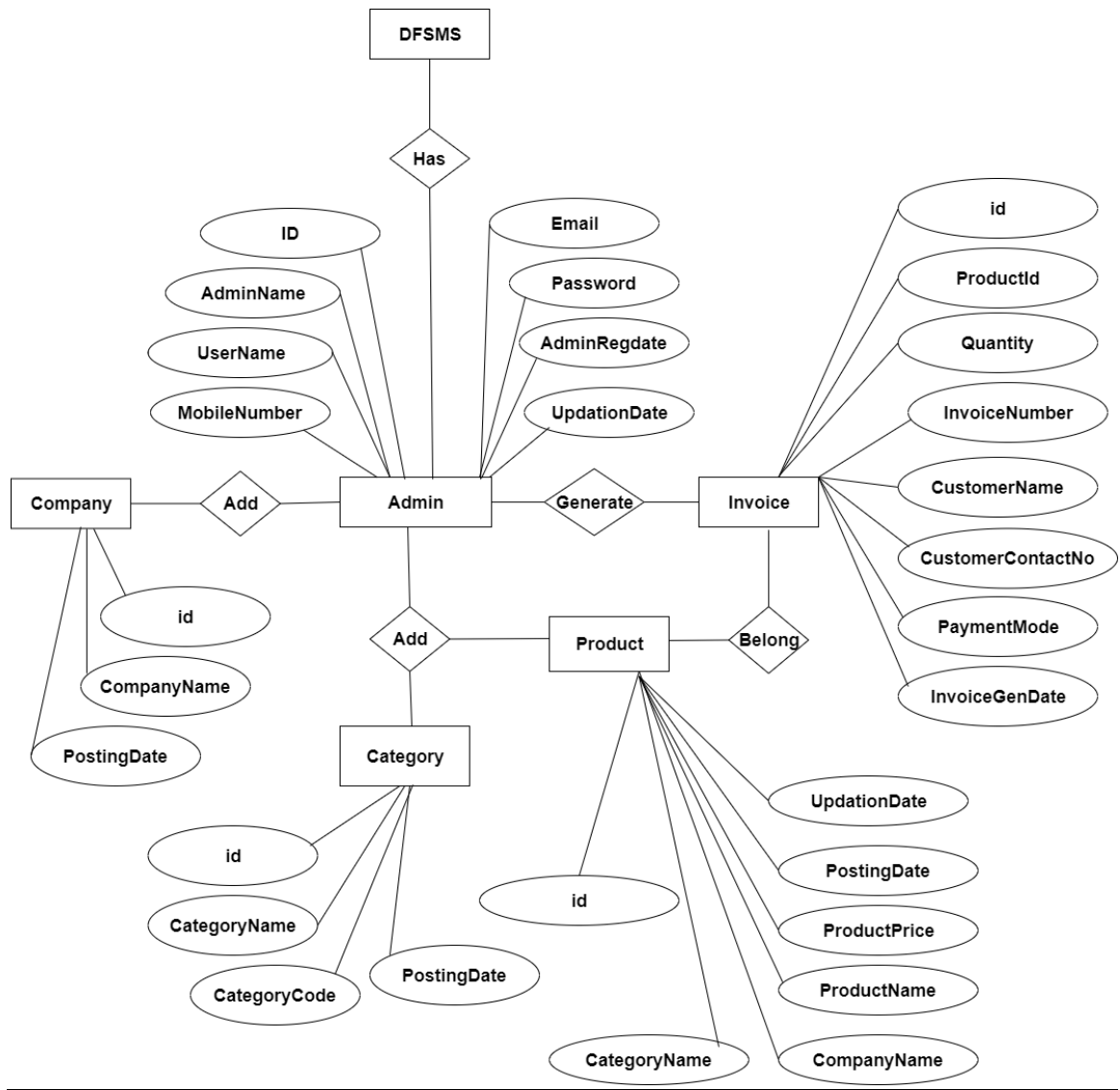
Use Case Diagram Admin



E – R DIAGRAMS

- The relation upon the system is structure through a conceptual ER-Diagram, which not only specifics the existential entities but also the standard relations through which the system exists and the cardinalities that are necessary for the system state to continue.
- The entity Relationship Diagram (ERD) depicts the relationship between the data objects. The ERD is the notation that is used to conduct the date modeling activity the attributes of each data object noted is the ERD can be described resign a data object descriptions.
- The set of primary components that are identified by the ERD are
 - ◆ Data object
 - ◆ Relationships
 - ◆ Attributes
 - ◆ Various types of indicators.

The primary purpose of the ERD is to represent data objects and their relationships.



Database Design


The data in the system has to be stored and retrieved from database.

Designing the database is part of system design. Data elements and data structures to be stored have been identified at analysis stage. They are structured and put together to design the data storage and retrieval system.



A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and efficiently. The general objective is to make database access easy, quick, inexpensive and flexible for the user. Relationships are established between the data items and unnecessary data items are removed. Normalization is done to get an internal consistency of data and to have minimum redundancy and maximum stability. This ensures minimizing data storage required, minimizing chances of data inconsistencies and optimizing for updates. The MS Access database has been chosen for developing the relevant databases.

Dairy Farm Shop Management System (DFSMS) contains 5 MySQL tables :



tbladmin : This table stores admin login details

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(5)			No	None		AUTO_INCREMENT
2	AdminName	varchar(45)	latin1_swedish_ci		Yes	NULL		
3	UserName	char(45)	latin1_swedish_ci		Yes	NULL		
4	MobileNumber	bigint(11)			Yes	NULL		
5	Email	varchar(120)	latin1_swedish_ci		Yes	NULL		
6	Password	varchar(120)	latin1_swedish_ci		Yes	NULL		
7	AdminRegdate	timestamp			Yes	current_timestamp()		
8	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()



tblcategory : This table stores category details

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	CategoryName 	varchar(200)	latin1_swedish_ci		Yes	NULL		
3	CategoryCode	varchar(50)	latin1_swedish_ci		Yes	NULL		
4	PostingDate	timestamp			Yes	current_timestamp()		


tblcompany: This table stores company details

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	CompanyName 	varchar(150)	latin1_swedish_ci		Yes	NULL		
3	PostingDate	timestamp			Yes	current_timestamp()		

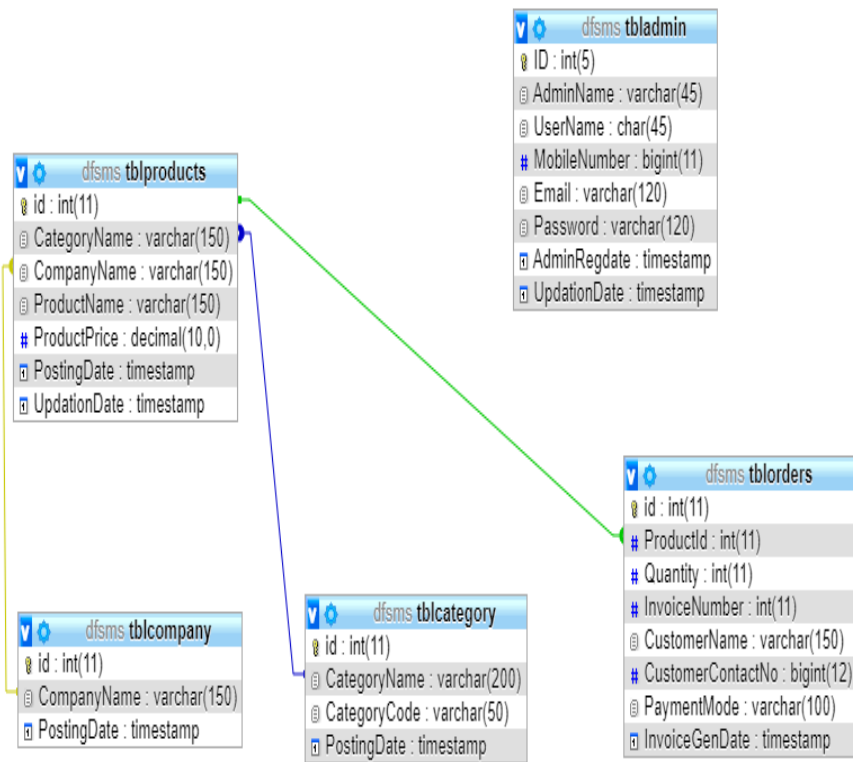
tblorders : This table stores invoice details of dairy products.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	ProductId 	int(11)			Yes	NULL		
3	Quantity	int(11)			Yes	NULL		
4	InvoiceNumber	int(11)			Yes	NULL		
5	CustomerName	varchar(150)	latin1_swedish_ci		Yes	NULL		
6	CustomerContactNo	bigint(12)			Yes	NULL		
7	PaymentMode	varchar(100)	latin1_swedish_ci		Yes	NULL		
8	InvoiceGenDate	timestamp			Yes	current_timestamp()		

tblproducts: This table store dairy product details.


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	CategoryName	varchar(150)	latin1_swedish_ci		Yes	NULL		
3	CompanyName	varchar(150)	latin1_swedish_ci		Yes	NULL		
4	ProductName	varchar(150)	latin1_swedish_ci		Yes	NULL		
5	ProductPrice	decimal(10,0)			Yes	current_timestamp()		
6	PostingDate	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()
7	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()

MySQL Tables Relationship



Output Screens

Login Page



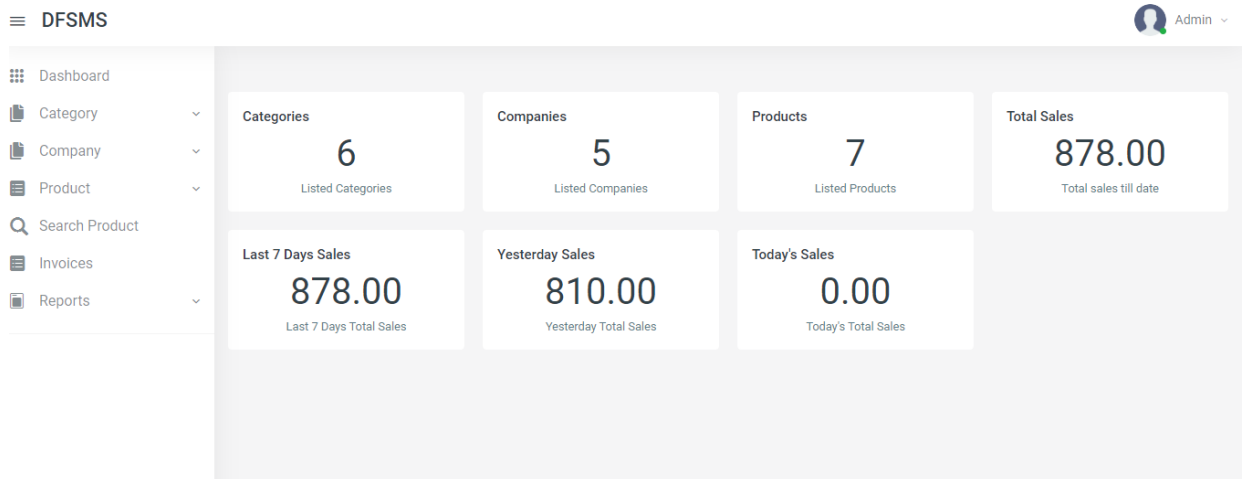
Dairy Farm Shop Management System

Welcome Back :)

Login

[Having trouble logging in?](#)

Dashboard



Admin Profile

DFSMS

Admin

- Dashboard
- Category
- Company
- Product
- Search Product
- Invoices
- Reports

Profile > Admin

Update Admin Profile

Reg. Date 2019-12-23 00:00:00

Last Updation Date 2019-12-26 11:17:21

Name

Admin

Username

admin

Email Id

admin@test.com

Mobile Number

1234567899

Update

Change Password

DFSMS

Admin

- Dashboard
- Category
- Company
- Product
- Search Product
- Invoices
- Reports

Change Password > Admin

Admin Change Password

Current Password

Current Password

New Password

New Password

Confirm Password

Confirm Password

Change

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Add Category

DFSMS

Admin

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Category > Add

Add Category

Category

Category

Category Code

Category Code

Submit

Dairy Farm Shop Management System ©2019

Manage Category

DFSMS

Admin

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Category > Manage

Manage Categories

10 Items

Search

#	Category	Category Code	Posting Date	Action
1	Milk	MK01	2019-12-24 21:57:43	Edit Delete
2	Butter	BT01	2019-12-24 21:57:59	Edit Delete
3	Bread	BD01	2019-12-24 21:58:12	Edit Delete
4	Paneer	PN01	2019-12-24 21:59:18	Edit Delete
5	Soya	SY01	2019-12-24 21:59:58	Edit Delete
6	Ghee	GH01	2019-12-25 20:22:08	Edit Delete

Showing 1 to 6 of 6 entries

Previous 1 Next

Dairy Farm Shop Management System ©2019

Update Category

DFSMS

Category > Edit

Edit Category

Category

Milk

Category Code

MK01

Update

Dairy Farm Shop Management System ©2019

Add Company

DFSMS

Company > Add

Add Company

Company Name

Company Name

Submit

Dairy Farm Shop Management System ©2019

Manage Company

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Company > Manage

Manage Companies

10 items

Search

#	Company Name	Posting Date	Action
1	Amul	2019-12-25 09:00:51	Edit Delete
2	Mother Dairy	2019-12-25 09:00:59	Edit Delete
3	Patanjali	2019-12-25 09:01:09	Edit Delete
4	Namaste India	2019-12-25 09:01:21	Edit Delete
5	Paras	2019-12-25 20:22:50	Edit Delete

Showing 1 to 5 of 5 entries

[Previous](#) [1](#) [Next](#)

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Update Company

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Company > Update

Update Company

Company Name

Amul

Update

Dairy Farm Shop Management System ©2019

Add Product

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Product > Add

Add Product

Category

Select category

Company

Select Company

Product Name

Product Name

Product Price

Product Price

Submit

Dairy Farm Shop Management System ©2019

Manage Product

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Product > Manage

Manage Products

10 items

Search

#	Category	Company	Product	Pricing	Posting Date	Action
1	Milk	Amul	Toned milk 500ml	22	2019-12-25 10:52:37	Edit
2	Milk	Amul	Toned milk 1ltr	42	2019-12-25 09:55:20	Edit
3	Milk	Mother Dairy	Full Cream Milk 500ml	26	2019-12-25 12:12:24	Edit
4	Milk	Mother Dairy	Full Cream Milk 1ltr	50	2019-12-25 12:12:39	Edit
5	Butter	Amul	Butter 100mg	46	2019-12-25 17:12:56	Edit
6	Bread	Patanjali	Sandwich Bread	30	2019-12-25 17:10:10	Edit
7	Ghee	Paras	Ghee 500mg	350	2019-12-25 20:23:33	Edit

Showing 1 to 7 of 7 entries

Previous1Next

Dairy Farm Shop Management System ©2019

Update Product

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Product > Edit

Edit Product

Category

Milk

Company

Amul

Product Name

Toned milk 500ml

Product Price

22

Update

Dairy Farm Shop Management System ©2019

Admin

Search Product without Search

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Search > Product

Search Product

Product Name

Product Name

Search

Shopping Cart

Your Cart Is Empty

Empty Cart

Dairy Farm Shop Management System ©2019

Admin

Search Product with product

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Search > Product

Search Product

Product Name

Product Name

Search

#	Category	Company	Product	Pricing	Quantity	Action
1	Milk	Amul	Toned milk 500ml	22	<input type="text" value="1"/>	<button>Add to Cart</button>
2	Milk	Amul	Toned milk 1ltr	42	<input type="text" value="1"/>	<button>Add to Cart</button>
3	Milk	Mother Dairy	Full Cream Milk 500ml	26	<input type="text" value="1"/>	<button>Add to Cart</button>
4	Milk	Mother Dairy	Full Cream Milk 1ltr	50	<input type="text" value="1"/>	<button>Add to Cart</button>

Shopping Cart

Your Cart is Empty

Empty Cart

Dairy Farm Shop Management System ©2019

Product Add to Cart

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Search > Product

Search Product

Product Name

Product Name

Search

Shopping Cart

Empty Cart

Product Name	Category	Company	Quantity	Unit Price	Price	Remove
Toned milk 1ltr	Milk	Amul	4	42	168.00	Remove Item
Ghee 500mg	Ghee	Paras	2	350	700.00	Remove Item

Total: 6868.00

Customer Name

Customer Mobile Number

Customer Name

Mobile Number

Payment Mode

☐ Cash☐ Card

Checkout

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View Invoice

DFSMS

 Admin

- Dashboard
- Category
- Company
- Product
- Search Product
- Invoices
- Reports

Invoice > View

View Invoice

DFSMS

Dairy Farm Shop Management System

Invoice / Receipt

Date: 2019-12-25 20:24:24
Invoice / Receipt # 139640585
Customer # John
Customer Mobile No # 45632147892
Payment Mode # cash

#	Product Name	Category	Company	Quantity	Unit Price	Price
1	Ghee 500mg	Ghee	Paras	1	350	350.00
2	Butter 100mg	Butter	Amul	1	46	46.00
Total						396.00

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Between Date Report

DFSMS

 Admin

- Dashboard
- Category
- Company
- Product
- Search Product
- Invoices
- Reports

Reports > B/w Dates

B/w Date Report Date Selection

From Date

To Date

Submit

Dairy Farm Shop Management System ©2019

Detail of Between Date Report

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Reports > B/w Dates Report Details

B/w Dates report from 2019-12-24 to 2019-12-26

10 items

Search

#	↑	Invoice Number	Customer Name	Customer Contact No.	Payment Mode	Invoice Gen. Date	Action
1		753947547	Anuj	9354778033	cash	2019-12-25 14:02:47	✕
2		979148350	Sanjeen	1234567890	card	2019-12-25 17:08:08	✕
3		861354457	Rahul	9876543210	cash	2019-12-24 17:13:48	✕
4		276794782	Sarita	1122334455	cash	2019-12-25 17:18:06	✕
5		744608164	Babu Pandey	123458962	card	2019-12-25 17:37:50	✕
6		139640585	John	45632147892	cash	2019-12-25 20:24:24	✕

Showing 1 to 6 of 6 entries

Previous

1

Next

Dairy Farm Shop Management System ©2019

Sales Report

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Reports > Sales Report

Sales Report Date Selection

From Date

dd-mm-yyyy

To Date

dd-mm-yyyy

Submit

Dairy Farm Shop Management System ©2019

Detail of Sales Report

DFSMS

Dashboard

Category

Company

Product

Search Product

Invoices

Reports

Reports > Sales Report Details

Sales report from 2019-12-25 to 2019-12-26

10 items

Search

#	↑	Month / Year	Sale Amount
1		12/2019	810

Showing 1 to 1 of 1 entries

Previous

1

Next

Dairy Farm Shop Management System ©2019

Forgot Password



Welcome Back :)



Reset

[signin](#)

Reset Password



Welcome Back :)



Reset

[signin](#)

System Testing and Implementation

INTRODUCTION

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding. In fact, testing is the one step in the software engineering process that could be viewed as destructive rather than constructive.

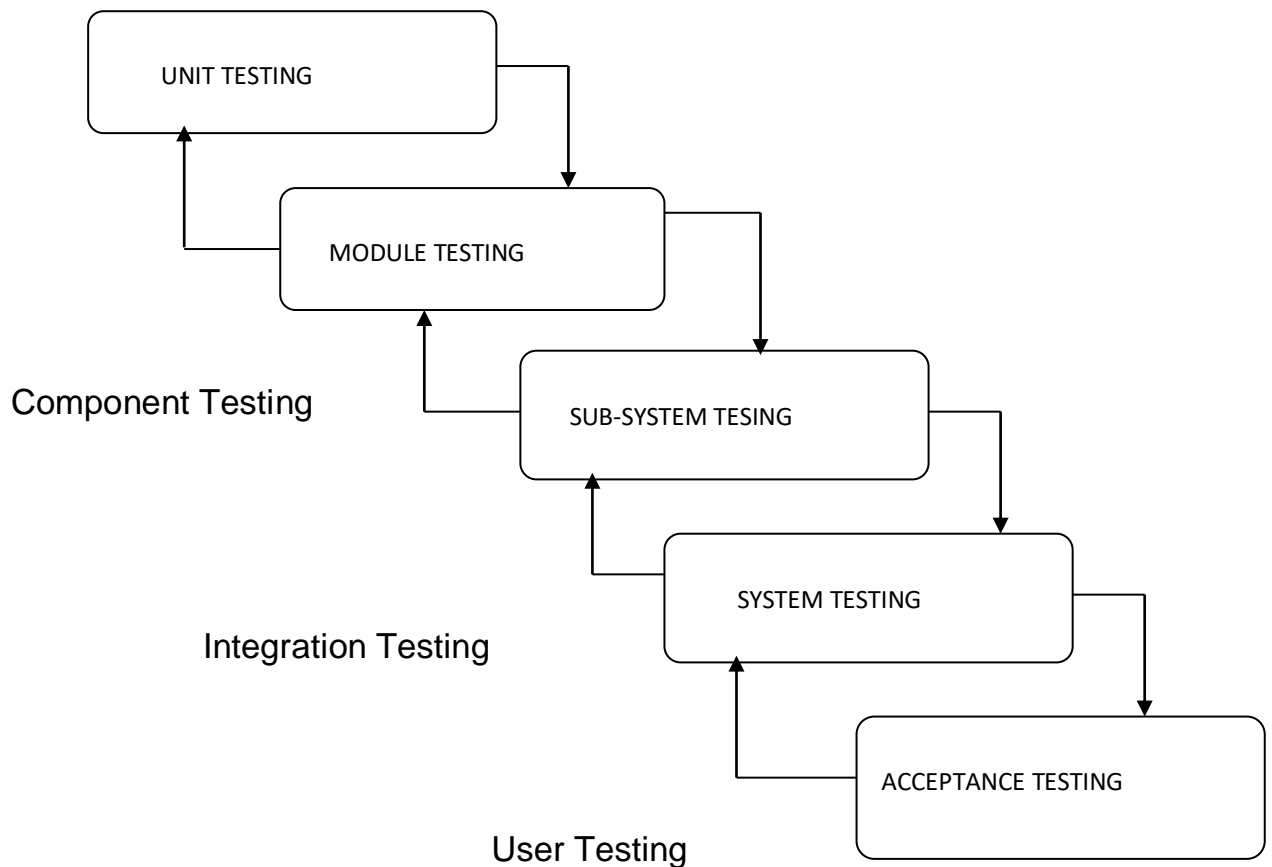
A strategy for software testing integrates software test case design methods into a well-planned series of steps that result in the successful construction of software. Testing is the set of activities that can be planned in advance and conducted systematically. The underlying motivation of program testing is to affirm software quality with methods that can economically and effectively apply to both strategic to both large and small-scale systems.

STRATEGIC APPROACH TO SOFTWARE TESTING

The software engineering process can be viewed as a spiral. Initially system engineering defines the role of software and leads to software requirement analysis where the information domain, functions, behavior, performance, constraints and validation criteria for software are established. Moving inward along the spiral, we come to design and finally to coding. To develop computer software we spiral in along streamlines that decrease the level of abstraction on each turn.

A strategy for software testing may also be viewed in the context of the spiral. Unit testing begins at the vertex of the spiral and concentrates on each unit of the software as implemented in source code. Testing progress by moving outward along the spiral to integration testing, where the focus

is on the design and the construction of the software architecture. Talking another turn on outward on the spiral we encounter validation testing where requirements established as part of software requirements analysis are validated against the software that has been constructed. Finally we arrive at system testing, where the software and other system elements are tested as a whole.



Unit Testing

Unit testing focuses verification effort on the smallest unit of software design, the module. The unit testing we have is white box oriented and some modules the steps are conducted in parallel.

1. WHITE BOX TESTING

This type of testing ensures that

- All independent paths have been exercised at least once
- All logical decisions have been exercised on their true and false sides
- All loops are executed at their boundaries and within their operational bounds
- All internal data structures have been exercised to assure their validity.

To follow the concept of white box testing we have tested each form .we have created independently to verify that Data flow is correct, All conditions are exercised to check their validity, All loops are executed on their boundaries.

2. BASIC PATH TESTING

Established technique of flow graph with Cyclomatic complexity was used to derive test cases for all the functions. The main steps in deriving test cases were:

Use the design of the code and draw correspondent flow graph.

Determine the Cyclomatic complexity of resultant flow graph, using formula:

$$V(G)=E-N+2 \text{ or}$$

$$V(G)=P+1 \text{ or}$$

$$V(G)=\text{Number Of Regions}$$

Where $V(G)$ is Cyclomatic complexity,

E is the number of edges,

N is the number of flow graph nodes,

P is the number of predicate nodes.

Determine the basis of set of linearly independent paths.

3. CONDITIONAL TESTING

In this part of the testing each of the conditions were tested to both true and false aspects. And all the resulting paths were tested. So that each path that may be generate on particular condition is traced to uncover any possible errors.

4. DATA FLOW TESTING

This type of testing selects the path of the program according to the location of definition and use of variables. This kind of testing was used only when some local variable were declared. The *definition-use chain* method was used in this type of testing. These were particularly useful in nested statements.

5. LOOP TESTING

In this type of testing all the loops are tested to all the limits possible. The following exercise was adopted for all loops:

- All the loops were tested at their limits, just above them and just below them.
- All the loops were skipped at least once.
- For nested loops test the inner most loop first and then work outwards.
- For concatenated loops the values of dependent loops were set with the help of connected loop.
- Unstructured loops were resolved into nested loops or concatenated loops and tested as above.

Each unit has been separately tested by the development team itself and all the input have been validated.

Conclusion

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in PHP and MySQL web based application. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

BENEFITS:

The project is identified by the merits of the system offered to the user. The merits of this project are as follows: -

- It's a web-enabled project.
- This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
- The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stages of any new creation, data entry or updation so that the user cannot enter the invalid data, which can create problems at later date.
- Sometimes the user finds in the later stages of using project that he needs to update some of the information that he entered earlier. There are options for him by which he can update the records. Moreover there is restriction for his that he cannot change the primary data field. This keeps the validity of the data to longer extent.
- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to

other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can say that the project is user friendly which is one of the primary concerns of any good project.

- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of information since data collection from information available on computer takes much less time than manual system.
- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency,

LIMITATIONS:

- The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
- Training for simple computer operations is necessary for the users working on the system.

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