VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India

An Internship Report

On

"DAIRY MANAGEMENT SYSTEM"

Submitted in Partial Fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted By

Student Name	USN
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Carried out at
Compsoft Technologies,
Bengaluru.

Under the guidance of

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S J C INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CHIKKABALLAPUR-562101

2021-2022

||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust®

S.J.C INSTITUTE OF TECHNOLOGY, Chickballapur - 562101

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the Internship work entitled **"DAIRY MANAGEMENT SYSTEM"** carried out by **SOMAGATTU CHANDRIKA** bearing USN:1SJ18CS097 a bonafide student of Sri Jagadguru Chandrashekaranatha Institute of Technology in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the year **2021-22**. It is certificated that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

30/6/22	30/6/22	
Signature of Guide	Signature of HOD	Signature of Principal
Dr, Murthy SVN	**Dr. Manjunath Kumar B H**	**Dr. G T Raju**
Associate professor,	Professor & HOD,	Principal, SJCIT,
Dept. of CSE,SJCIT	Dept. of CSE,SJCIT	Chickballapur

External Examiners:

Name of the Examiners	**Signature with Date**
1. SMANJUNATHA	25/7/2022
2. JAGADISH.N	25/7/22

COMPANY CERTIFICATE

Compsoft Technologies

Providing a Complete Suite of IT Solutions

Certificate ID - 1CST21FSWP2465 **Date -** 17/10/2021

Certificate of Internship

This is to certify that **Ms Somagattu Chandrika (1SJ18CS097)** has done her **Full Stack Web Development** Internship in **Compsoft Technologies**, Rajaji Nagar, Bangalore, from 1st September 2021 to 3rd October 2021.

She has worked on a project titled **Dairymanagementsystem**. This project was aimed at creating a cutting edge website for a client ofours, As part of the project, She designed functional web pages, Backend Databases to collect, store, sort data, by understanding the design briefs and client specifications that were provided in the Proposal.

During the internship, She demonstrated good design skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time, We wish her all the best in her future endeavours.

Warm regards,

(Project Manager, CST)

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***Search Engine Optimisation** ***Development** ***ML & Research**
***Branding and Design** ***Content Writing** ***Embedded Systems and IOT**

DECLARATION

I, **SOMAGATTU CHANDRIKA**, student of VIII semester B.E in Computer science & Engineering at S J C Institute of Technology, Chickballapur, hereby declare that the Internship work entitled "DAIRY MANAGEMENT SYSTEM" has been independently carried out by me under the supervision of **Dr. Murthy SVN,** Associate Professor, Department of CSE , and the coordinator **Narendra Babu C** Assistant Professor, submitted in partial fulfillment of the course requirement for the award of degree in **Bachelor of Engineering** in **Computer Science & Engineering** of **Visveswaraya Technological University, Belgavi** during the year 2021-2022. I further declare that the report has not been submitted to any other University for the award of any other degree.

PLACE: CHICKBALLAPUR **STUDENT NAME : SOMAGATTU CHANDRIKA**
Date : **USN : 1SJ18CS097**

ABSTRACT

A survey was prepared by the Dairy Cattle Milk Recording Working Group together with invited milk recording organisations. This paper is one part of this project and focuses on management and organisational questions. The management of recording organizations in the current climate of growing competition is more challenging than ever.

The main part of this approach is how to develop a clear relationship with customers and how to provide value to farmers in regard to collected data and samples. New tools of analysis are already very common in some countries, while other participants are now focusing on maximizing increased efficiency in data capturing and processing. In those countries whose workflow is technician-based, training and certification are major components in improving human resources. The reporting of results back to farmers is also a very challenging area.

The use of paper and pdf-reports is very common, but new online technologies and smartphone usage now provide new opportunities for farmers to manage information. Real value is created by additional analyses from identified milk samples. The goal was to develop a program that is flexible enough to be useful in a wide variety of management systems by providing reports suited to the individual producer.The existing program already collects farmers,employees,deliveries and their databases respectively other maintenance procedures and performance records.

ACKNOWLEDGEMENT

With reverential pranam, I express my sincere gratitude and salutations to the feet of his holiness **Byravaikya Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Maha Swamiji,** & his holiness **Jagadguru Sri Sri Sri Dr. Nirmalanandanatha Swamiji** of Sri Adichunchanagiri Mutt for their unlimited blessings. First and foremost we wish to express my deep sincere feelings of gratitude to our institution, **Sri Jagadguru Chandrashekaranatha Swamiji Institute of Technology.** For providing me an opportunities for completing my internship work successfully.

I extend deep sense of sincere gratitude to **Dr. G T Raju**, **Principal, S J C Institute of Technology, Chickballapur**, for providing an opportunity to complete the Internship Work.

I extend special in-depth, heartfelt, and sincere gratitude to our HOD **Dr. Manjunath Kumar , Professor and Head of the Department, Computer Science and Engineering, S J C Institute of Technology, Chickballapur,** for his constant support and valuable guidance of the Internship Work.

I convey our sincere thanks to Internship Internal Guide **Dr.Murthy SVN, Associate Professor, Department of Computer Science and Engineering, S J C Institute of Technology,** for his constant support, valuable guidance and suggestions of the Internship Work.

I am thankful to Internship External Guide **Mr. Dhanush S , Product Manager, Compsoft Technologies, Bangalore,** for providing valuable guidance and encouragement of the Internship Work.

I also feel immense pleasure to express deep and profound gratitude to our Internship Coordinator **Narendra Babu C , Assistant Professor, Department of Computer Science and Engineering, S J C Institute of Technology,** for his guidance and suggestions of the Internship Work.

Finally, I would like to thank all faculty members of Department of Computer Science and Engineering, S J C Institute of Technology, Chickballapur for their support.

I also thank all those who extended their support and co-operation while bringing out this Internship Report.

SOMAGATTU CHANDRIKA(1SJ18CS097)

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CHAPTER 1

AIM OF THE INTERNSHIP

An Internship chance for a variety of benefits for young workers who want to broaden their chances for landing a job and jump-starting their careers. Internships give you a taste of what a profession is like , help you build your resume and let you meet people who can help you in your career. Don't be passive during an internship and miss opportunities to expand your business background. Take advantage of the many benefits of holding an internship. The purpose of the internship is to provide an opportunity to seek, identify and further develop an appropriate level of professionalism. An internship assist with career development by providing real work experience that provide student with opportunities to explore theirinterest and develop professional skills.

Advantage of Internship

Internship provide students numerous perks: They gain experience, develop skills, make connections, strengthen their resumes, learn about a field, and assess their interest and abilities. Offering a paid internship is particularly beneficially because it enables economically disadvantaged youth to participate.

CHAPTER - 2

COMPANY PROFILE

2.1 History of the Organization

Compsoft Technologies is founded by a group of Enterprise Architects having over two decades of experience in software architecture, design and development of missioncritical systems for some of the Fortune 500 companies. We hire some of the best talents in the market to deliver quality software on your aggressive milestone dates. Being in the industry and having hands on experience, we fully understand the entire Software Development Life Cycle and we only hire resources who meet our high standards. All of our resources go through our rigorous interview process based on your requirements and we only select the candidates who not only technically strong but also they are fully dedicated to deliver on your promise, the success of your organization.

Our resources are expert in designing and developing applications using Agile and Scrum methodologies. Whatever your software development methodologies may be, our resources have experience in broad areas and they can pull any project successfully.

We work hard to enhance continuously our reputation for accessibility, professionalism, performance, and the depth and quality of our long-term consultative relationships with our clients. We endeavor to be valued as an industry leader in client satisfaction, quality performance and reputation. All activities will be conducted to the highest ethical and professional standards.

To help our clients achieve their objectives by serving as their manpower consulting firm. Compsoft Technologies has one-to-one relationships with a number of clients,helping them benefit from all of the technologies available to them and build a better solution that exceeds client's expectation. It is our goal that offers a full range ofsoftware, consulting, support, automation combined with a wide range of technologies that enable clients to consider how they could achieve their objectives.

2.1.1 Objectives

We are committed to going the extra mile to bring success to the clients consistently.
We are dedicated to delivering the right people, solutions, and services to the clients that they require to meet their technology challenges and business goals.
Delivering the most efficient and the best solution to our clients to every client leveraging leading technologies & industry best practices.

2.1.2 Operation of the Organization

The race for digital transformation is on. In this globally connected on-demand world with rapid advancements in internet technologies, businesses worldwide are under constant pressure to add innovative real-time capabilities to their applications to respond to market opportunities.
Every business worldwide is building event-driven, real-time applications - from financial services, transportation, and energy, to retail, healthcare, and Gaming companies.
Our endeavour is to make it easy to develop innovative real-time applications and efficient to operate them in production.
We have a proven record of building highly scalable, world-class consulting processes that offer tremendous business advantages to our clients in the form of huge cost-benefits, definitive results and consistent project deliveries across the globe.

We prominently strive to improve your business by delivering the full range of competencies including operational performance, developing and applying business strategies to improve financial reports, defining strategic goals and measure and manage those goals along with measuring and managing them.

2.2 Major Milestones

Compsoft Technologies is an Information Technology manpower consulting and product development firm specialized in bringing businesses and technologies together under the same umbrella. Our in-depth knowledge in developing mission critical systems for Fortune 500 companies has earned us the reputations in the marketplace. Whether you are building complex systems for your customers or migrating your legacy systems to cutting edge technologies, our resources are fully trained and equipped with the knowledge required to perform the job right, from the very first day. We serve on a wide variety of our clients including Banking, Accounting, Insurance, Healthcare, Retail, Trucking & Transportation. We have proven record of evaluating the best candidates for your requirement and stand by on the quality throughout the project implementation.

In today's competitive marketplace, it is important to bring the businesses and technologies together to deliver on your promise. More than ever, Compsoft Technologies is committed to deliver on our promise so that you can deliver on yours, the success of your organization.

2.3 Structure of the Organization

CST, core strength lies in our super energetic and gigantic team, forming an excellent blend of IT minds along with a creative bent. Taking ownership of not only one's own task but also creating an enduring & contented customer is what every individual works together with. Our endeavour is to continuously improve and deliver maximum– enriching products & solutions. That's what we mean – doing IT better driving business transformation, digitally – Applying disruptive technologies for business transformations. CST brings great advantage to business space by bridging gaps, simplifying businesses and elevating competitive benefits by providing technology-based business solutions.

Leveraging the enormous talent of our passionate and proven individuals. We are hugely a customer-centric organization that is bent upon consummating the needs of the customers beyond their expectations. We successfully host a consortium of experienced

professionals who work in synergy in order to gain an edge over the market. we look at ourselves as a team where we co-create with them.

Having delivered successful projects we pride ourselves on being a sought-after mobile application development. Through the years, and have been successfully delivering value to our customers. We truly believe that our customer's success is our success We don't look at ourselves as a vendor for their projects instead. You would be excited to hear some of our stories and know to what extent we have gone in the interest of the success of our customers. and we work hard to make that happen. This philosophy and execution have resulted in a long-term partnership with most of our clients

2.4 Services Offered

It is believed that service and quality is the key to success, Enabling business success driven by technology. Harnessing the power of technology, we create a measurable difference for our clients across various industries & multiple geographies.

1. Development.

We develop responsive, functional and super-fast websites. We keep User Experience in mind while creating websites. A website should load quickly and should be accessible even on a small view-port and slow internet connection.

2. Branding and Design.

We offer professional Graphic design, Brochure design & Logo design. We are experts in crafting visual content to convey the right message to the customers. We also design custom wraps for your products(also known as package designing).

3. Search Engine Optimization

We help you manage your SEO campaign more efficiently and effectively. We help you gain market share by leveraging our expertise. our holistic approach to identify anything that may be hurting your traffic or rankings and show you just how to outrank the competition.

4. Content Writing

We provide content writing services for blogs and product descriptions, our team helps you generate content to Increase your Brand Recall. We can amplify your marketing needs & help you reach your potential customers.

5. Research

We equip business leaders with indispensable insights, advice and tools to achieve their goals, our main area of research is in sentimental analysis, having published multiple papers on the same, we are in the process of creating a virtual bot that is intended to use our sentimental analysis data to provide real time replies.

6. Embedded System and IOT

CST works with Consumer Electronics, Lighting, Home Automation, Metering, Sensor-Technology, Home Appliance and Medical Device companies to help them create smart and connected products.

Through its integrated Embedded and IoT services, Techno soft helps build intelligent & connected devices that can be remotely monitored and controlled while leveraging edge and cloud computing for a host of intelligent applications and analytics.

7. Full Stack Web Development

Full stack web development is the practice of working on both the front-end and back-end of a program. Full Stack is a layer of software or web development consisting of the front-end and the back-end portions of an application. Front-end is what the users will see or interact with on your application. Back-end part is what users do not see, such as application's logic, database, server, etc. A full-stack web developer is comfortable working with both back-end and front-end technologies which make a website or application function properly.

CHAPTER – 3

TASK PERFORMED

In this full stack development course it was divided into two parts one is front end development and one more is backend course.

Training Program

The internship is a platform where the trainees are assigned with the specific task. In the initial days of the internship, I was trained on the following:

- HTML
- CSS
- JAVASCRIPT
- PHP
- SQL

FRONT END

In front end part we have used HTML, CSS and Java Script has the web development languages mainly used for the design of the web page.

- HTML(Hyper Text Markup Language)

  The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as CSS and scripting languages such as Java Script.

- CSS(Cascading Style Sheet)

  Cascading Style Sheets is a style sheet marketing used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World wide Web, alongside HTML and Java Script.

- JAVASCRIPT

  JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMA Script specification. JavaScript is high level, often just-in-time compiled, and multiparadigm. It has curly-bracket syntax, dynamic typing, prototype-based, object-oriented, and first class function.

  After the completion of frontend discussion , a simple project was developed called Web page for LG company using HTML, CSS, JavaScript. It had the basic information, the photo was inserted, it also consisted of gif and a video. Navigation to second web page was also done.

BACKEND

The backend was consisted of the simple PHP and the SQL database to connect.

PHP

- PHP is an acronym for "PHP: Hypertext Pre processor" PHP is a widely-used, open source scripting language PHP scripts are executed on the server.
- PHP is free to download and use.
- PHP files can contain text, HTML, CSS, JavaScript, and PHP code
- PHP code is executed on the server, and the result is returned to the browser as plain HTML
- PHP files have extension ".php"
- PHP can generate dynamic page content, open, read, write, delete, and close files on the server, can collect form data ,can send and receive cookies ,can add, delete, modify data in your database ,can be used to control user-access ,can encrypt data

With PHP you are not limited to output HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as XHTML and XML.

SQL

- SQL stands for Structured Query Language
- SQL lets you access and manipulate databases
- SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987
- SQL can execute queries against a database, retrieve data from a database ,insert records in a database, update records in a database, delete records from a database, create new databases, create new tables in a database, create stored procedures in a database, create views in a database, set permissions on tables, procedures, and views.

CHAPTER – 4

SYSTEM REQUIREMENTS AND SPECIFICATION

4.1 Hardware Requirement

Processor : Intel Core Duo 2.0 GHz

RAM : 1 GB or More

Harddisk : 80GB or more

Monitor : 15” CRT, or LCD monitor

Keyboard : Normal or Multimedia

Mouse : Compatible mouse

Software Requirement

Front End : Visual Basic 2005 Express edition with Sql Server Compact Edition Microsoft SDK 2.0 or Visual Basic 2008 Express edition with Sql Server Compact Edition Microsoft SDK 3.0

Back End : MS Sql Server

Operation System : Windows 7 with server pack 2 Or Windows 8.1

Specifications

i) User Requirements

Since end users are the ones who are finally going to use the system, their requirements need to be identified. This involves questioning the end users what their expectations were. The main requirement of the end user is that the system should be easy to use and take less time. In addition to these another important factor was to eliminate the need for database conversion and migration that had to be carried out presently. After conducting interviews with the users a document called the software requirement specification was created. This is the most important document that forms the basis for system development. It should be consistent, complete,unambiguous, traceable and inter-related.

ii) Functional Requirements:

The functional requirements specify relationship between the inputs and outputs. All the operations to be performed on the input data to obtain output are to be specified. This includes specifying the validity checks on the input and output data, parameters affected by the operations and the other operations, which must be used to transform the inputs into outputs. Functional requirements specify the behavior of the system for valid input and outputs.

iii) Performance Requirements

This section includes performance of the product that are set by user interaction and studying the existing system of the organization. These are stated in complete measurable terms, so that they can be verified during system evaluation phase.

User Characteristics

i) Every user

Should be comfortable with basic working of the computer Must carry a login ID and password used for authentication. In dairy milk management manager, supervisor and clerk are the employees. These characters only are allowed to authorized to login.

ii) Constraints

The GUI restricted to English

Login user mail and password is used for identification of users. There is no facility for a guest login.

4.2 System analysis and design

System design is essential to develop a model of system before writing any software that is used to control the system or to interact with it during the design process we try to develop system at different levels of abstraction. Design process involves data structures including library function used in the programs. The project is developed using the below objects:-

1. **Planned approach toward working**: The working in the organization will be well planned and organized. The data will be stored efficiency with optimal disk space consumption in data stores which will help in retrieval of information as well as its storage under resource constraints.

2. **Accuracy**: The level of accuracy in the proposed system will be higher. All operations would conform to integrity constraints and correctness and it will be ensured that whatever information is received at or sent from the centre is accurate.

3. **Reliability**: The reliability of the proposed system will be high due to the above mentioned reasons. This comes from the fact that only the data which conforms accuracy clause would be allowed to commit back to the disk. Other properties like transaction management and rollback during system or power failure etc get automatically taken care of by the SQL systems, which is undoubtedly an excellent choice of the DBMS system. Properties of atomicity, consistency, isolation and data security are intrinsically maintained.

4. **No redundancy**: In the proposed system it will be ensured that no repetition of information occurs; neither on a physical storage nor on a logical implementation level. This economizes on resource utilization in terms of storage space. Also even in case of concurrent access no anomalies occur and consistency is maintained. In addition to all this, principles of normalization have been endeavoured to be followed.

5. **Immediate retrieval of information**: The main objective of the proposed system is to provide a quick and efficient platform for retrieval of information. Among the queries allowed for use by the user, the query results are made available immediately, without time lapse, irrespective of the complexity of the query.

6. **Ease of operation**: The system should be simplistic in design and use. It is such that it can be easily developed within a short period of time and can conform to the financial and resource-related constraints of the organization.

4.2.1 System Development Phases

Systems Development Life Cycle (SDLC) adheres to important phases that are essential for developers, such as planning, analysis, design, and implementation, and are explained in the section below. There are several Systems Development Life Cycle Models in existence. The oldest model, that was originally regarded as "the Systems Development Life Cycle" is the waterfall model: a sequence of stages in which the output of each stage becomes the input for thenext. These stages generally follow the same basic steps but many different waterfall methodologies give the steps different names and the number of steps seems to vary between 4and 7. There is no definitively correct Systems Development Life Cycle model, but t he steps canbe characterized and divided in several steps.

i) Initiation Phase

The Initiation Phase begins when a business sponsor identifies a need or an opportunity. The purpose of the Initiation Phase is to:

· Identify and validate an opportunity to improve business accomplishments of the organization or a deficiency related to a business need.

· Identify significant assumptions and constraints on solutions to that need.

· Recommend the exploration of alternative concepts and methods to satisfy the need including questioning the need for technology, i.e., will a change in the business process offer a solution?

· Assure executive business and executive technical sponsorship.

ii) System Concept Development Phase

The System Concept Development Phase begins after a business need or opportunity is validated by the Agency/Organization Program Leadership and the Agency/Organization CIO. The purpose of the System Concept Development Phase is to:

· Determine the feasibility and appropriateness of the alternatives.

· Identify system interfaces.

· Identify basic functional and data requirements to satisfy the business need.

· Establish system boundaries; identify goals, objectives, critical success factors, and performance measures.

· Evaluate costs and benefits of alternative approaches to satisfy the basic functional requirements

· Assess project risks

· Identify and initiate risk mitigation actions, and

· Develop high-level technical architecture, process models, data models, and a concept of operations.

4.2.2 Feasibility Study

A feasibility study is a test of a system proposal according to its workability impact on organization, ability to meet user needs and effective use of resources. The objective of a feasibility study is not to solve a problem but to acquire a sense of its scope. During the study, the problem definition is crystallized and the aspects of the problem to be included in the system
are determined. After the initial investigation of the system that helped to have in-depth study of the existing system, understanding its strength and weaknesses and the requirements for the new proposed system.

i) Behavioral feasibility

People are inherently resistant to change and computers have been known to facilitate change. There is always some reluctance among the users against the introduction of new system but they were told that this system would eliminate the unnecessary overhead of database migration and conversion, which presently had to be carried out on daily basis to facilitate transactions between the different departments. The objective this feasibility phase is to take the operational staff into confidence.

ii) Schedule feasibility

Time evaluation is the most important consideration in the development of project. The time schedule required for the development of the project is very important of other systems.

A reliable Human Resource Database Management System can be developed in a considerably appropriate amount of time.

iii) Economic feasibility

Economic feasibility is the most frequently used method for evaluating the effectiveness of the candidate system. More commonly known as cost\benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with the costs. If benefits outweigh the costs, then the decision is made to design and implement the system. A cost\benefit analysis was done for the proposed system to evaluate whether it would be economically viable or not.

iv)Technical feasibility

Technical feasibility centers on the existing computer system.

(Hardware/software) and to what extent it can support the proposed addition also the organization already has sufficient high-end machines to serve the processing requirements of the proposed system. So there is no need to purchase new software as the organization has necessary software i.e.tomcat5.0, j2ee1.4, Microsoft SQL Server or hardware to support the proposed system

4.2.3 Analysis Phase

i) Existing System Details and Problems

Lack of immediate retrievals: In the conventional system, information is distributed across several files. This might also lead to data redundancy with repetition of the same information in various files. In the event of a complex or nested query, the search has to scan several files, thus making procurement of requested query results very cumbersome.

Maintenance of Accuracy and Reliability issues: With redundancy comes consistency issues as the update of information in a single record should be echoed in all records containing the same information. Also atomicity issues ie, completion of a transaction in totality or nothing at all; has to be maintained. This is difficult in a multi-file system.

Lack of prompt update: Updates associated with a record in a file is to be reflected in all records wherein the particular record is present. This concurrent update poses the problem of time lag. Errors in commit operation to some particular files cause the grave issue of data inconsistency.

Error prone manual calculation: Manual calculations are error prone and relatively immensely time consuming, in spite of which they may result in generation of incorrect information. Verification is another overhead, which can be saved through efficient design and implementation.

4.2.4 Technology Used

i) PHP

PHP is a widely used, general-purpose scripting language that was originally designed for web development to produce dynamic web pages. For this purpose, PHP code is embedded into the HTML source document and interpreted by a web server with a PHP processor module, which generates the web page document.

PHP source code is compiled on-the-fly to an internal format that can be executed by the PHP engine. In order to speed up execution time and not have to compile the PHP source code every time the webpage is accessed, PHP scripts can also be deployed in executable format using a PHP compiler.

PHP is one of the most popular server side scripting languages running today. It is used for creating dynamic webpages that interact with the user offering customized information. PHP offers many advantages; it is fast, stable, secure, easy to use and open source (free).

PHP code is inserted directly into the HTML that makes up a website. When a visitor comes to the website, the code is executed. Because PHP is a server side technology, the user does not need any special browser or plug-ins to see the PHP in action.

Another key advantage of PHP is its connective abilities. PHP uses a modular system of extensions to interface with a variety of libraries such as graphics, XML, encryption, etc. In addition, programmers can extend PHP by writing their own extensions and compiling them into the executable or they can create their own executable and load it using PHP's dynamic loading mechanism.

A huge advantage that PHP offers is its community. Since PHP is an A huge advantage that PHP offers is its community. Since PHP is an open source project, the PHP community is willing to share. If you're looking for a particular script, chances are another user has already created something similar. Check within the PHP community for availability. Likewise, if you have created a function that others might enjoy, be sure to post the code for others.

A PHP scripting block always starts with <?php and ends with ?>. A PHP scripting block can be placed anywhere in the document.

On servers with shorthand support enabled you can start a scripting block with <? and end with ?>. For maximum compatibility, we recommend that you use the standard form (<?php) rather than the shorthand form.

ii) MY SQL

MySQL is an open-source relational database management system(RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality.

MySQL was created by a Swedish company, MySQL AB, founded by David Axmark, Allan Larsson and Michael "Monty" Widenius. Original development of MySQL by Widenius and Axmark began in 1994.[27] The first version of MySQL appeared on 23 May 1995. It was initially created for personal usage from mSQL based on the low-level language ISAM, which the creators considered too slow and inflexible. They created a new SQL interface, while keeping the

same API as mSQL

MySQL is written in C and C++. Its SQL parser is written in yacc, but it uses a home-brewed lexical analyzer.

Mysql dump is a logical backup tool included with both community and enterprise editions of MySQL. It supports backing up from all storage engines. MySQL Enterprise Backup is a hot backup utility included as part of the MySQL Enterprise subscription from Oracle, offering native InnoDB hot backup, as well as backup for other storage engines.

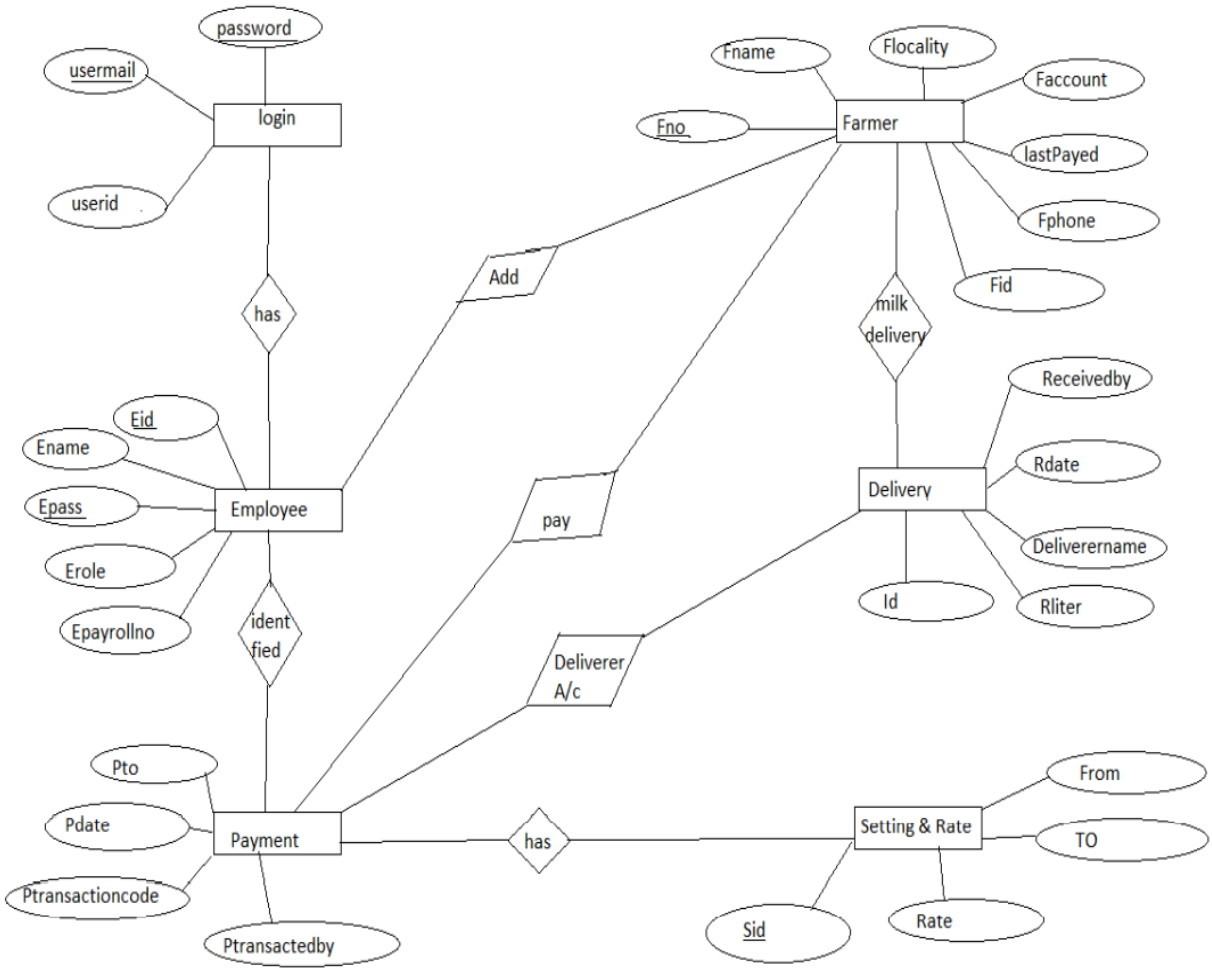
Xtra Backup is an open-source MySQL hot backup software program. Features include hot, non-locking backups for InnoDB storage, incremental backups, streaming, parallel-compressed backups, throttling based on the number of I/O operations per second, etc.

MySQL Fabric is an integrated system for managing a collection of MySQL servers, and a framework on top of which high availability and database sharding is built. MySQL Fabric is open-source, and supports procedure execution in the presence of failure, providing an execution model usually called *resilient execution.* MySQL client libraries are extended so they are hiding the complexities of handling failover in the event of a server failure, as well as correctly dispatching transactions to the shards.

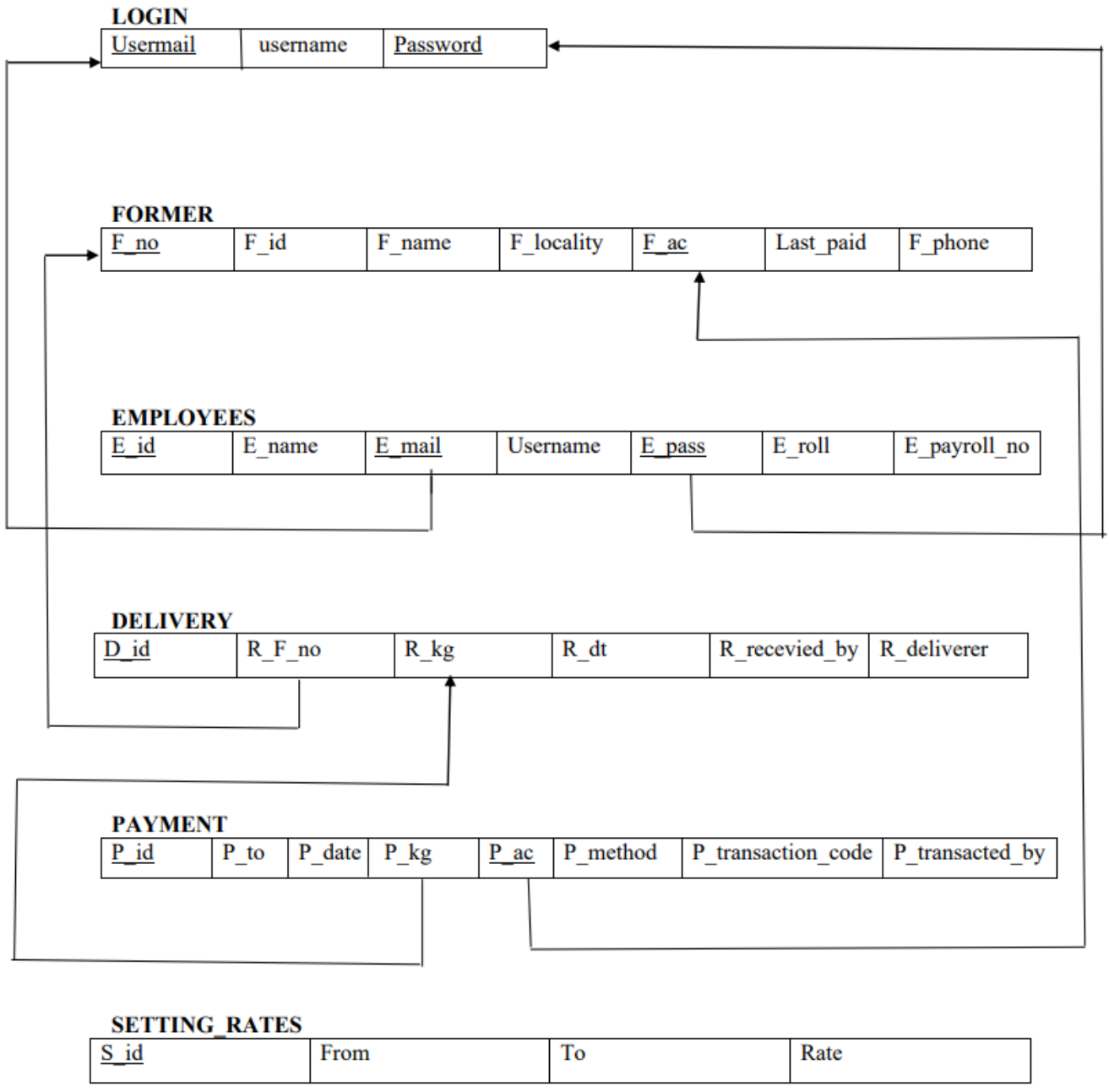
phpMyAdmin is a free and open source tool written in PHP intended to handle the administration of MySQL with the use of a web browser. It can perform various tasks such as creating, modifying or deleting databases, tables, fields or rows; executing SQL statements; or managing users and permissions. The software, which is available in 78 languages, is maintained by *The phpMyAdmin Project*.

4.3 SYSTEM ARCHITECTURE

4.3.1 ER Diagram



4.3.2 Schema Diagram



4.4 Implementation

This phase is initiated after the system has been tested and accepted by the user. In this phase, the system is installed to support the intended business functions. System performance is compared to performance objectives established during the planning phase. Implementation includes user notification, user training, installation of hardware, installation of software onto production computers, and integration of the system into daily work processes. This phase continues until the system is operating in production in accordance with the defined user requirements.

4.4.1 Tables Used

LOGIN

(usermail, username, password)

FARMER

(f_no, f_id, f_name, f_locallity, f_acc, last_paid, f_phone)

EMPLOYEES

(e_id, e_name, e_mail, username, e_pass,e_roll, e_payroll_no)

DELIVERY

(d_id, r_f_no, r_kg, r_dt, r_received_by, r_deliverer)

PAYMENT

(id, p_to, p_date, p_ac, p_method, p_transaction_code, p_transacted_by)

SETTINGS_RATES

(id, from, to, rate)

1. Login page

- Login into the account
- The user should be either Manager, Supervisor or Clerk to access the database.

2. Farmers

- Add farmers into the database and their information.
- View, Update, and remove farmers information.

3. Deliveries

- Add Deliveries into the database and their information.
- View, update ,and remove delivery information.

4. Employees

- Add employee into the database and their information.
- This table is only accessed by the Manager neither by Supervisor nor Clerk.

5. Payments

- The record of the Farmer is opened here.
- The payment for the Farmer and deliverer is processed.

6. Setting and rating

- The cost milk per liter is fixed here.
- Fixed cost is going to updated and follow the same for payment.

CHAPTER – 5

OUTCOMES OF THE WORK

An internship is learning experience of its own kind. The importance it has got over the years in building one's career is very important in one's professional life. It makes me learn not only the basics of work life but also some of the technical and non-technical activities that is very important in making the professional life better.

5.1 Technical Outcomes

- Basic understanding of web technologyand its applications.
- Learnt the practical approach of My Sql database
- Learnt the HTML and using its appropriate tags
- Learnt different types of cascading style sheets and experienced its use.
- Designed and developed a webpages along with their navigations and different types of information was inserted which was included with the video, gif and the anime .
- Finallya simple website was developed with the design of front and back end

5.2 Non - technical Outcomes

- **Problem Solving Skills** An internship introduces me to real-life work problems and hence develops the problem solving skills. Whatever problem statement I may encounter, it builds a potential within me to solve the given problem within the specific time.
- **Work Ethics** An internship provides an opportunity to work in a tangible working environment. As a result, I developed a professional culture and working ethics within me rather than providing excuses in college life.
- **Adaptability Skills** Everyone won't be adaptable in the beginning. Being adaptive to the surroundings easily is one of the most useful soft skills not only desirable to employers but also important to self-growth.
- **Communication Skills** It's one of the top listed skills that recruiters look for in a resume and something that can get you from bottom to top. Communicating well is a gem of a skill which I learnt during my internship experiences. Internship provides an opportunities were I can exhibit my communication skills in delivering the knowledge to the people.

CHAPTER – 6

SNAPSHOTS

HOME PAGE: this is Home page where we get options like Farmer, Delivery, Payment, Employee and Setting.

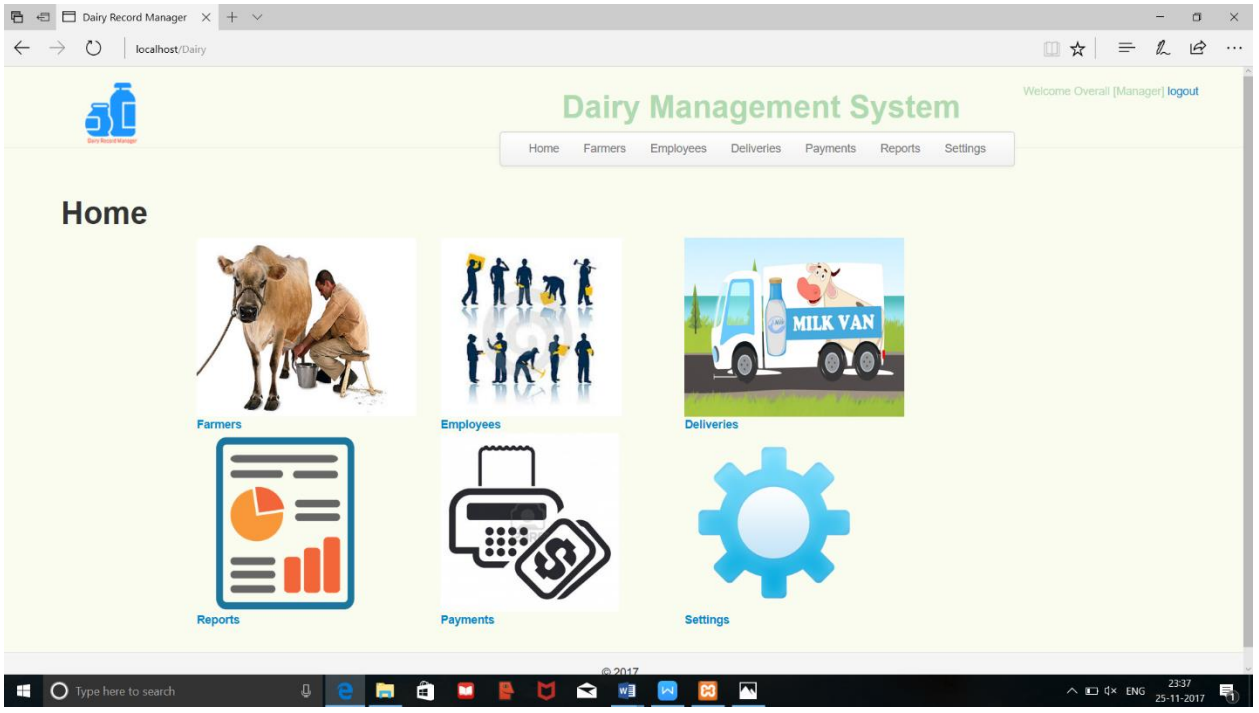


Figure 6.1 Home Page

LOGIN PAGE: This is the login page through which admin going to access the database.

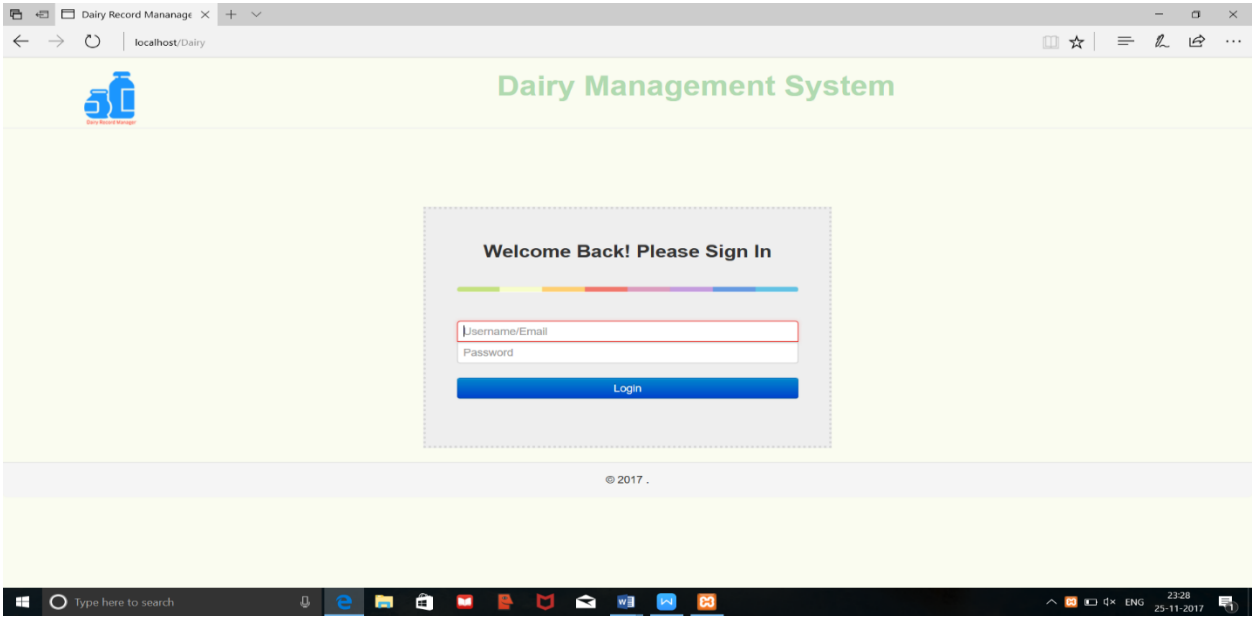


Figure 6.2 login page

FARMER PAGE: In this page user is going to add or edit the Farmer information.

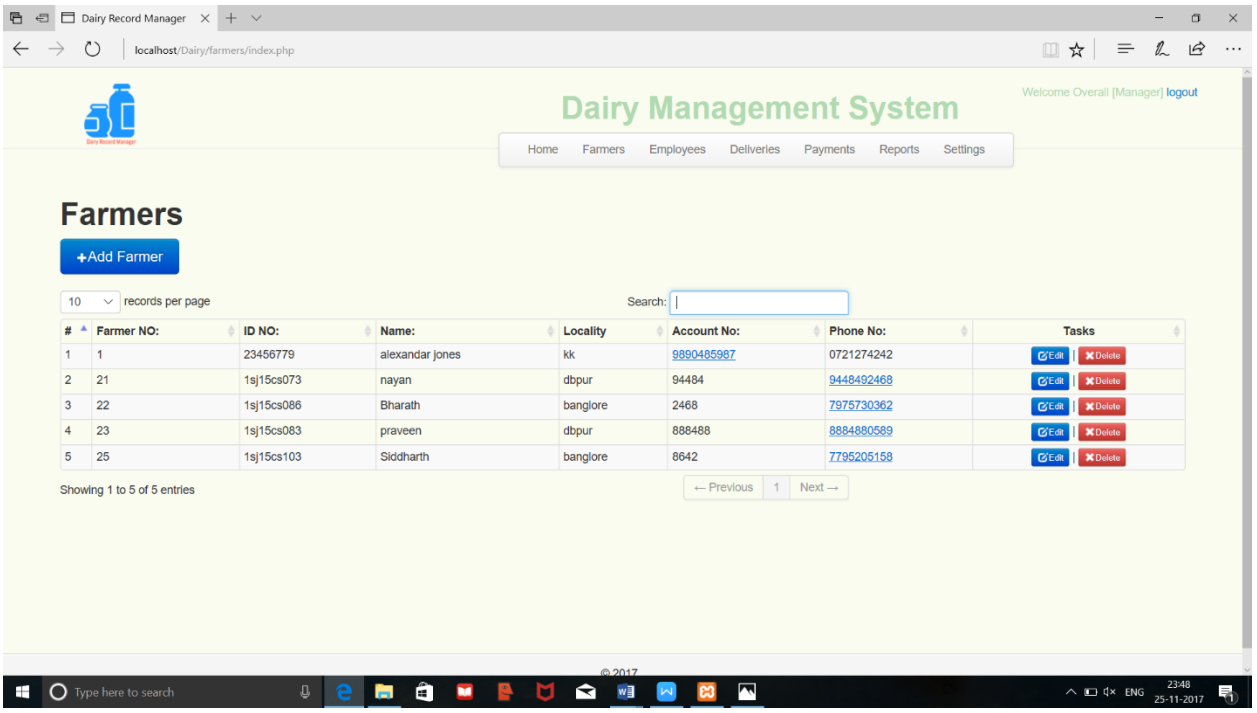


Figure 6.3: Farmer Page

EMPLOYEE PAGE: This page is only for the overall Manager of the system.

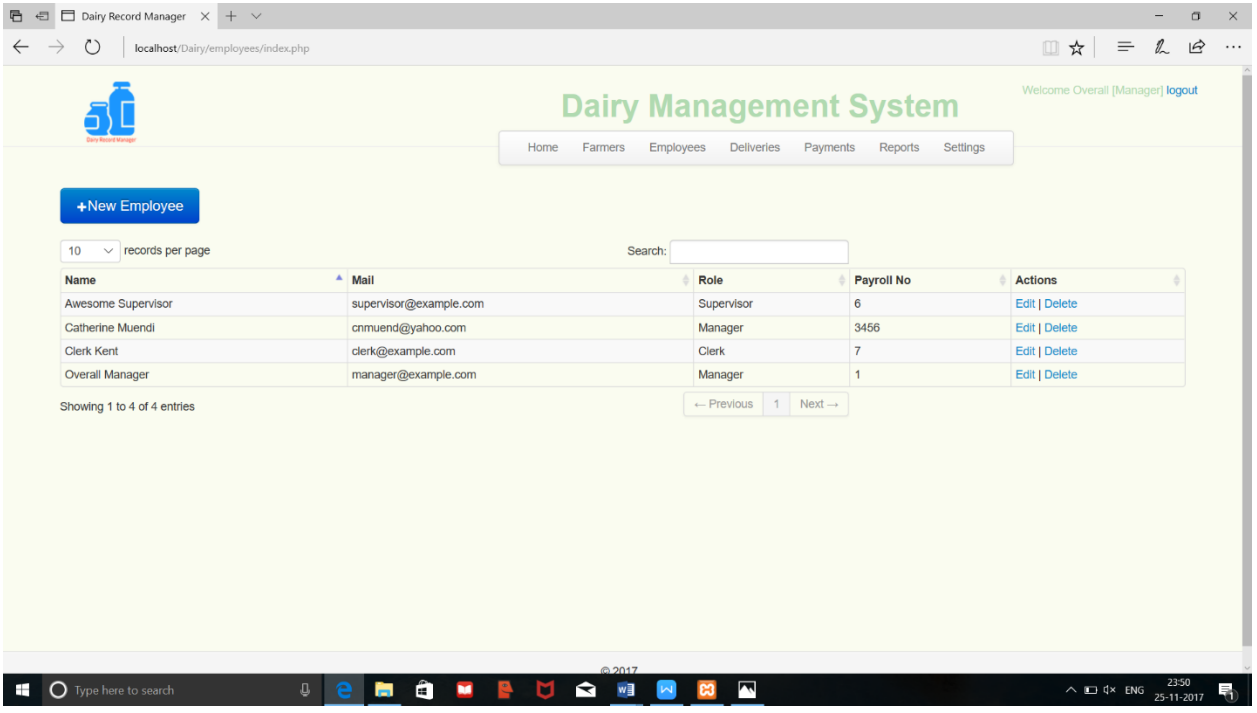


Figure 6.4 :Employee Page

DELIVERIES PAGE: In this page Deliverer is going to deliveres the milk into the destination location by collecting the milk from Farmer.

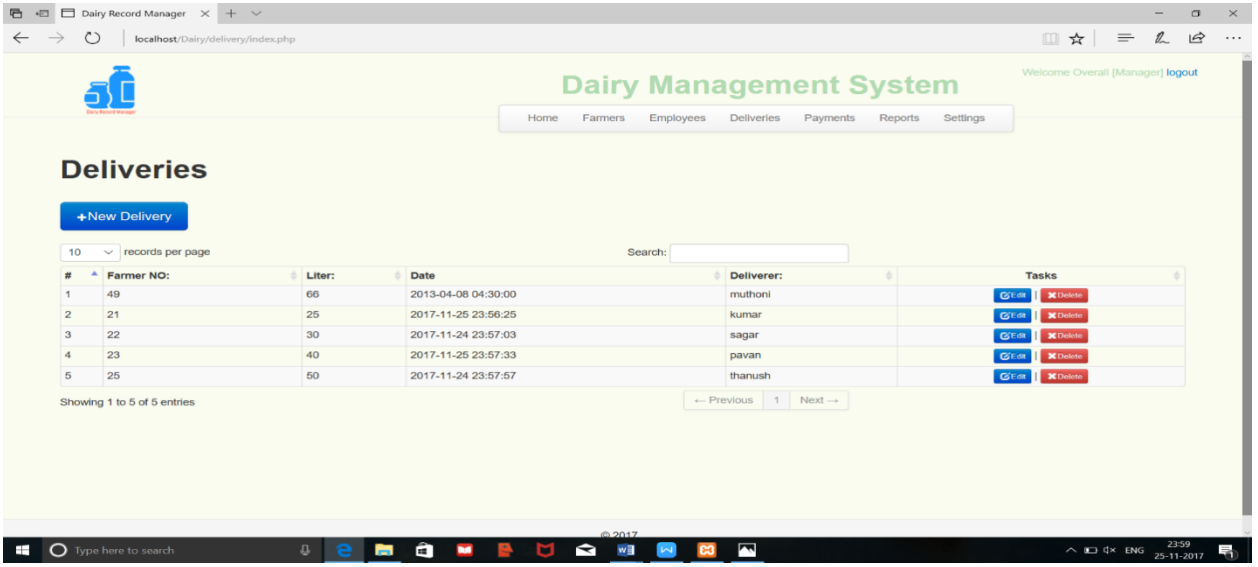


Figure 6.5: Deliveries Page

PAYMENT PAGE: In this page both Farmer and Deliverer is going get the payment through the bank.

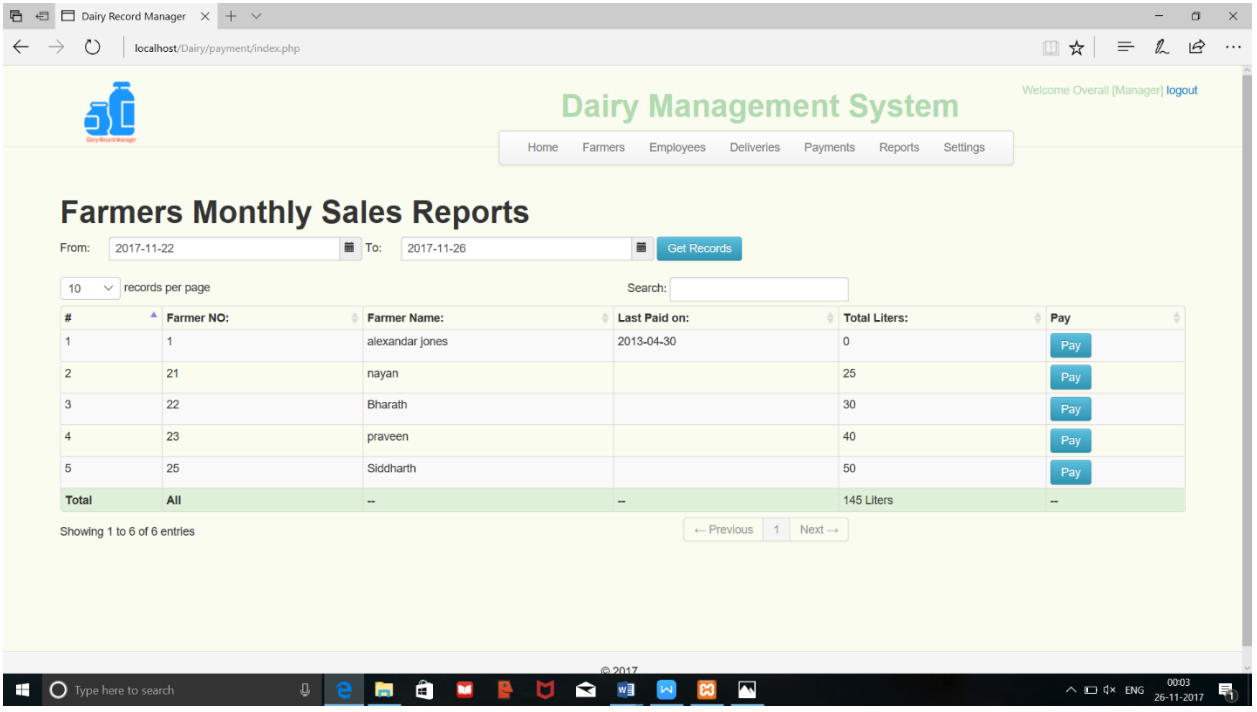


Figure 6.6: payment Page

REPORT PAGE: In this page milk by each Farmer and Total Farmer delivery is reported.

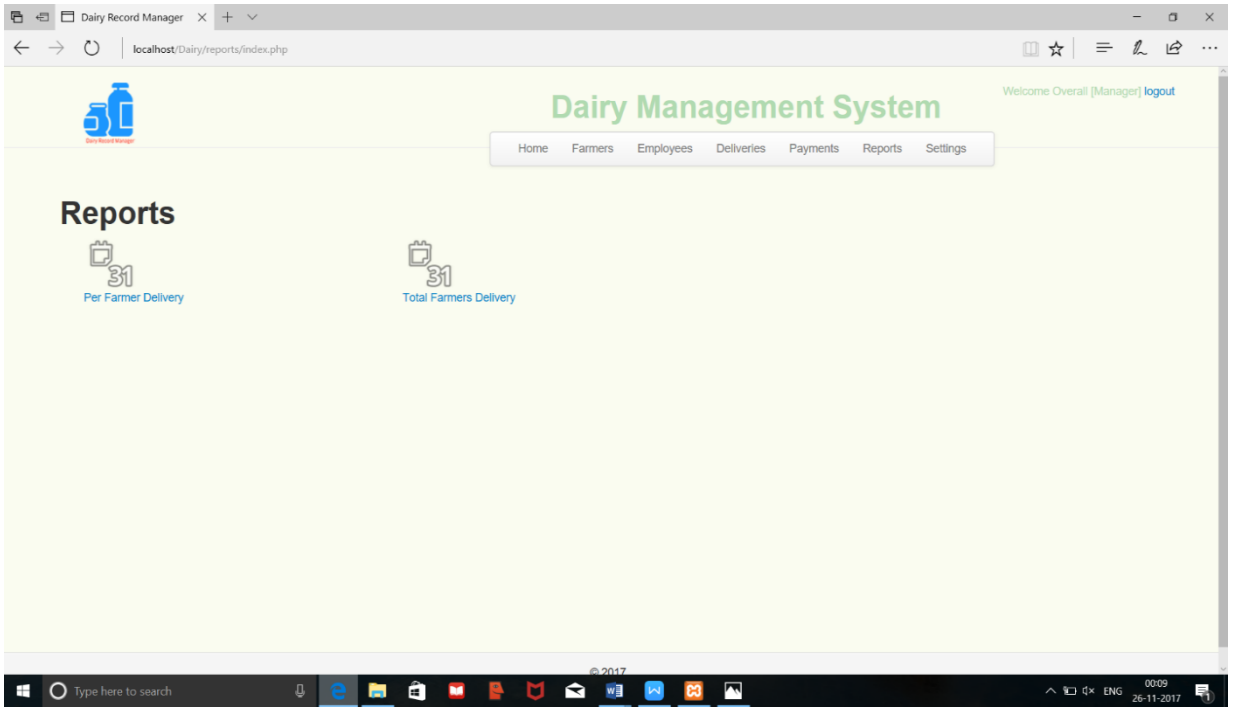


Figure 6.7: report Page

SETTING RATE PAGE: By considering this page user is going to fix the cost of the milk per liter.

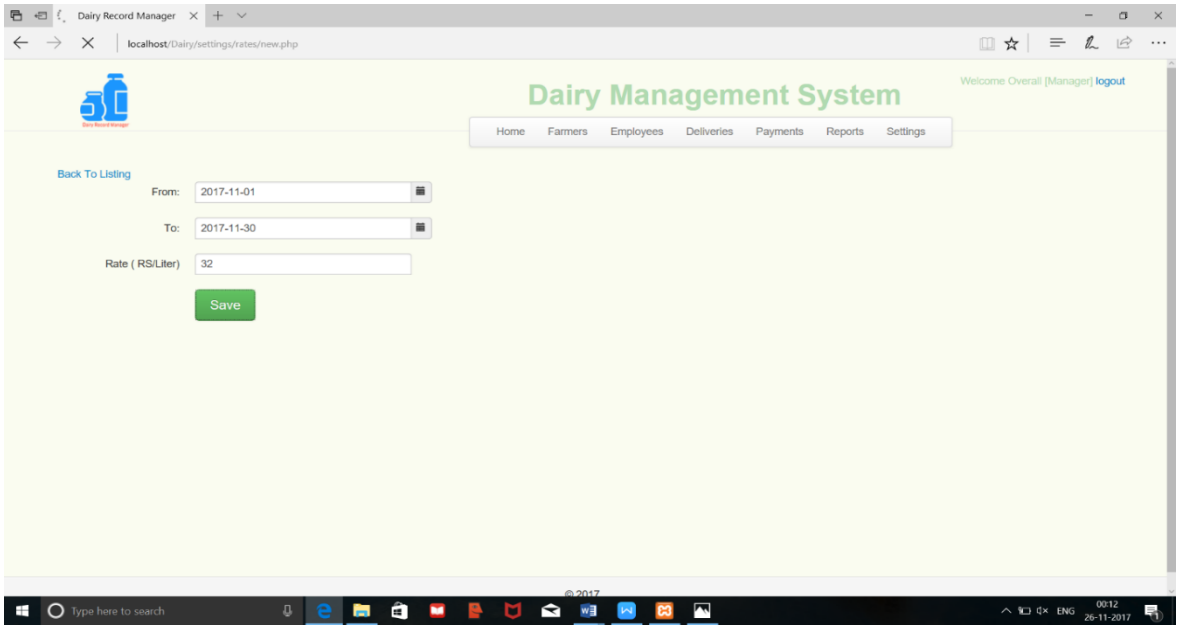


Figure 6.8: setting rate Page

CHAPTER – 7

CONCLUSION

With the theoretical inclination of our syllabus it becomes very essential to take the atmost advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Mini Project ”DAIRY MANAGEMENT SYSTEM” was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer. The project from a personal point of view also helped us in understanding the following aspects of project development:

• The planning that goes into implementing a project.

• The importance of proper planning and an organized methodology.

• The key element of team spirit and co-ordination in a successful project.

The project also provided us the opportunity of interacting with our teachers and to gain from their best experience.

An application has been developed using My Sql and PHP database programming connectivity via Xampp Server so as to meet the requirements of an organization, thereby ensuring quality performance.

The data can be accessed, manipulated and retrieved very easily. To conclude this software has proved to be a user friendly interface.

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APPENDIX

Appendix A: Abbreviation

IDE: An integrated development environment (IDE) is software for building applications that combines common developer tools into a single graphical user interface (GUI).

CSS: Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

HTML: HTML stands for Hyper Text Markup Language. It is used to design the front-end portion of web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. The markup language isused to define the text documentation within tag which defines the structure ofweb pages.

JS: JavaScript is a famous scripting language used to create the magic on the sites to make the site interactive for the user. It is used to enhancing the functionality of a website to running cool games and web-based software.