Automatic Quality Information Management System of Dairy Business

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Abstract:
India is now emerging as a major growing in the international dairy market. With the current liberalization of India economy, it has opened a wide field for entrepreneurs from other countries to participate in development of Indian dairy industry. The dairy industry which is the second largest industry of India employs millions of persons in our country. There is tremendous scope of growth in dairy industry and we can bring white revolution in our country if this industry is properly organized. This system is designed to evaluate the process of dairy management and milk production in dairy farms, in order to identify the pro & cons and the corresponding points of control. To obtain information and knowledge of SNF (Solid not fat), feeding and milking management. System also included the management practices among the dairy farms at various state levels from District to Taluka level for maintaining daily records as well as effective payment system through digital transactions. This system recurring to information of enterprises puts forward technical proposal of dairy business and evaluation arithmetic of the quality information management system. The result of the study shows that the digital information management system is an effective way to improve the level of the quality management in the dairy business. The multi-functional business management, cross-sector collaboration, more automated information collection and analysis will be the development direction of quality management information of dairy business.

Keywords: Automatic Quality Information Management System of Dairy Business.

1. INTRODUCTION

Development of ‘Automatic Quality Information Management System of Dairy Business’ application for Dairies. The aim of this application which will be called Quality Dairy Farm is to create to communication between rural area people and dairy management. Our main goal to develop this application is to encourage the dairy industry in rural areas and to create an efficient database management system to manage all parameters of a dairy business. The Quality Dairy Farm is a simple Dairy Software to maintain milk record by account member. This Project/Software used at small village dairy. The Rural/Interior area people cannot fill or send their cattle milk directly to dairy. Through this method I have gather those information reviewing the owner of the Dairy with his clients, I asked him to explain for me how they are managing this dairy and all the customer and how they maintain them, the owner telling me a lot of problems they are facing in the operation of dairy. The key advantage to this approach is that you don’t have to take action for individual and small team databases, or for older databases that can realize cost savings in hard disk space. Project Scope: It will be showing the details of employees in dairy management information system. It will show quality of the milk sold in the dairy. It will help them to know their frequent customers and their information details in their dairy database. It will help them in gathering information about the daily sales and progress of the business.

A. Problem statement
It is very difficult to collect record and save all the information because the dairy supply chain become very longer, so create this application for transparent database system for customer benefit.

User-friendly application with the local interface available in local language for better understandability and ease of use. An important function of this Application is to saving time and man power and also Maintaining Dairy information, Staff information & Customer information, Milk Rate Information. This will automate the traditional process into modern world.

B. Aim
The aim of this application is: Quality Dairy Farm is to create to communication between rural area people and dairy management. To is to encourage the dairy industry in rural areas and to create an efficient database management system to manage all parameters of a dairy business.

C. Scope
It will be showing the details of employees in dairy management information system. It will show quality of the milk sold in the dairy. It will help them to know their frequent customers and their information details in their dairy database. It will help them in gathering information about the daily sales and progress of the business.

II. PROPOSED SYSTEM
This project is aimed at which will be called Quality Dairy Farm is to create to communication between rural area people and dairy management. There are mainly two users they are Admin and Staff. The admin have all control over the staff members. The main function of admin is must be able to enter his username and password details to enter into his account. Admin add staff details i.e name, area, email, phone no. etc. Admin view the all details of staff and customer. Admin view the including the chart of Fat and SNF(Solid Not Fat) to calculate the milk rate. Admin view the all yearly record of the
total customer at a time. The record is cust name, cust ID, session (Morning or Evening), Date, fat, degree, and snf. The staff has all control over the customers. The function of staff is must be able to enter the username and password details to enter into his account. The role of staff members are add the customer will have enter the customer details in database customer information i.e name, mobile no., address, email id etc. Staff views the monthly record of the one customer at a one time. Staff will have to enter the transaction details i.e name of the customer, cust id, session is morning or evening, buffalo milk or cow milk, SNF, payment information etc. Staff also views the all transaction of the customer. Enter the all transaction then staff will be prepare the bill i.e cust id ,cust name, session is morning or evening, date(Start and End), total milk and total amount. The Staff will be preparing monthly bill of the customer. After prepare the bill staff will be print of that bill and given to the customer and also send the notification to the customer mobile no. or send email to the customer. The role of the customer is sold the milk to the Quality Dairy Farm. The proposed system is intended to avoid the drawback of existing system. It will add the some more features than the existing system propose system is decreasing the chances of error. This helps the organisation to win the war in the existing competitive world.

A. Implementation
1. This showing the details of employees in Quality Dairy Farm, it will show quality of milk selling in the dairy. The quality of the milk depends upon the SNF (Solid Not Fat). To including the chart of snf and fat to calculate the milk rate.
2. It will be helping to know how much they sale each day enable to access the business progress, It will enable them to their know suppliers who brought for them in daily time. The application will provide central database for everything being sold.
3. Calculation of milk quality in milk by using SNF.
   Calculate SNF:
   \[ \text{SNF} = \frac{((\text{FAT} \times 0.84) + 1.44 + \text{Degree})}{4} \]
4. Fixing the MRP on each customer’s milk based on the average milk quality of all the records of that specific customer.
   Calculate Total amount:
   \[ \text{Total amount} = \text{Milk rate} \times \text{Total milk} \]

III. SYSTEM DESIGN
The system consists of two modules as admin module and staff module. Each module have an same login page that contain user id and password field, by entering value in that field the user should login to the system.

Each module is described below.

a. Login Module: The purpose of this module is to provide entry to the portal. Based on the type of login, the user is provided with various facilities and functionalities. The main function of this module is to allow the user to use the portal. This module provides two types of login- Admin login and Staff login.

b. Admin Module: In this module the admin enter his/her user name and password. Which enables access to the admin page.
   - Staff addition/Updating/Deletion: Staff is added, update or delete according to his/her information.
   - Admin also view the staff, view yearly record.

c. Staff Module: In this module the staff add customer also update or delete the details of the customer. Staff creates the transaction and also prepares the bill and view the monthly record.

A. Use case diagram:
This use case diagram is a representation of a user’s interaction with the system and depicting the specification of a use case.

1. Admin use case diagram:
   In above diagram the ‘Admin’ will interact with the login use for authentication. Then admin interact with the register the staff, update and delete the staff details and view the yearly record.

2. Staff use case diagram:
   In staff diagram the ‘staff’ will interact with the login use for the authentication. Then staff interact with the register the customer, update and delete the customer details and create the transaction, make payment and view the monthly record.

IV. TECHNOLOGY USED
1. PHP
2. HTML
3. CSS
4. SQL Server

PHP is a ‘Hypertext preprocessor’. It is widely used, open source scripting language. PHP is easily embedded with HTML. It is free downloaded and used. HTML and CSS is the language for describing the color, layout and fonts. HTML and CSS used as front end. SQL server is used at backend foe
update for database storage, and to update, retrieval by giving query.

IV. CONCLUSION

This system’s applications will form and create opportunities that offer users to enter their records on forms, provided to save directly to the database storage system. Only the user can make data entry and any details needed or information to be stored in the database. Dairy management information system makes it easier to store data on a daily basis as it was too hard for them in the old system where they used hard paper which don’t have any kind of security, thus, this system will automatically store the data in the valid fields and make the whole data storage process easier and time-efficient.

V. RESULT

VI. ACKNOWLEDGMENT

No project is ever complete without the guidance of those expert how have already traded this past before and hence become master of it and as a result, our leader. So we would like to take this opportunity to take all those individuals how have helped us in visualizing this project. We express our deep gratitude to our project guide Prof. S. H. Darekar. We also great full to our H.O.D Prof. S. M. Patil for extending his help directly and indirectly through various channel in our project work

VII. REFERENCE


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