DAIRY MANAGEMENT SYSTEM

Avadhut Shankar Salavi (Kumbhar)[1], Rushikesh Ashok Sutar[2], Harshada Adinath Patil[3], Rakesh Subhash Shiraguppe[4]

[1] *Lecturer, Computer Science and Engineering,DKTE's Yashwantrao Chavan Polytechnic,Ichalkaranji, Maharashtra, India*
[2] *Student, Computer Science and Engineering,DKTE's Yashwantrao Chavan Polytechnic,Ichalkaranji, Maharashtra, India*
[3] *Student, Computer Science and Engineering,DKTE's Yashwantrao Chavan Polytechnic,Ichalkaranji, Maharashtra, India*
[4] *Student, Computer Science and Engineering,DKTE's Yashwantrao Chavan Polytechnic,Ichalkaranji, Maharashtra, India*

ABSTRACT

An old method of keeping records of dairy members using pen and paper is not reliable as finding old data can take a long time. The Dairy Management System provides dairy owners an easy way to organize the data of dairy members in one place through a web application. Through the dairy management system, the dairy owner can keep records of the individual's daily milk collection and the same will be credited to the user's account so that both the owner and the user can keep track of past records. Also, the dairy owner gets a few more options in the dashboard. Only the owner can verify the user's account after the user registers in the system. With this, the owner can keep track of daily total collection, total revenue, total expenses, collection between two dates. Both the user and the owner can receive receipts from their account for milk related contributions and collection related transactions respectively.

Keyword : - *Dairy, Web Application, Transactions etc….*

1. INTRODUCTION

The mission of the Dairy Management System is to create a dialogue between people in rural areas and dairy management. Our main goal is to develop this application to promote the dairy industry. The Dairy Management System is an all-in-one web-based application for dairy owners. The owner can manage all the data of the dairy members who contribute to the dairy business by paying milk. Managing the data means updating the price of milk as per the market standards, adding the records of the dairy members who have contributed milk, handling the data of the dairy members and automatically generating daily and monthly milk collection reports of each individual. Dairy members on the other side of the dashboard, can see all the details of milk contribution by date as well as create reports according to individual needs.

2. LITERATURE SURVEY

Amir Shabani, "A New Super-Efficiency Dual-Role FDH Procedure: An Application in Dairy Cold Chain for Vehicle Selection" [1], Cold Chain Management (CCM) is a system in which perishable products are managed. For the success of CCM's transportation system, optimal choice of vehicle is an important issue. Data envelope analysis (DEA) can be used for vehicle selection issues. However, in this particular area, traditional DEA models face difficulties. The problems are: 1) dual-roll components that classical DEA models cannot deal with; 2) Comparison of decision making units (DMUs) with virtual DMUs (not with actual DMUs); 3) tie between DMUs (i.e., many DMUs are known as efficient; 4) the inability of the DEA ranking model for specific data. In this paper, a new procedure has been developed to address the shortcomings mentioned. The proposed process, which uses free

disposal solution (FDH) technology, is an over-efficiency approach to provide a complete ranking of efficient DMUs in the presence of dual-role components. The case study illustrates the use of the proposed procedure.

Ron Berger & Anat Hovav, "Using a Dairy Management Information System to Facilitate Precision Agriculture" [2], Agriculture lags behind in adopting information technology. Provides tools to achieve business objectives such as accurate agricultural product quality, reduced labor costs and a balanced production mix. This study describes the use of the Dairy Management Information System implemented by S.A.E. Afikim to explain the application of the system in accurate farming. The findings suggest that the adoption of the Six Sigma-based dairy management information system supports four of the five proposals: reduced product defects, optimal product mix, quality and efficiency.

3. PROBLEM STATEMENT

Most dairy owners keep their records in register books which is not reliable as it may be lost somewhere or a little difficult to manage. Also, finding records of each individual's specific period is a time-consuming process. Using a dairy management system, the dairy owner can keep a record of all dairy members by organizing data in one place and this is the most reliable system as the owner can access the dashboard from any device.
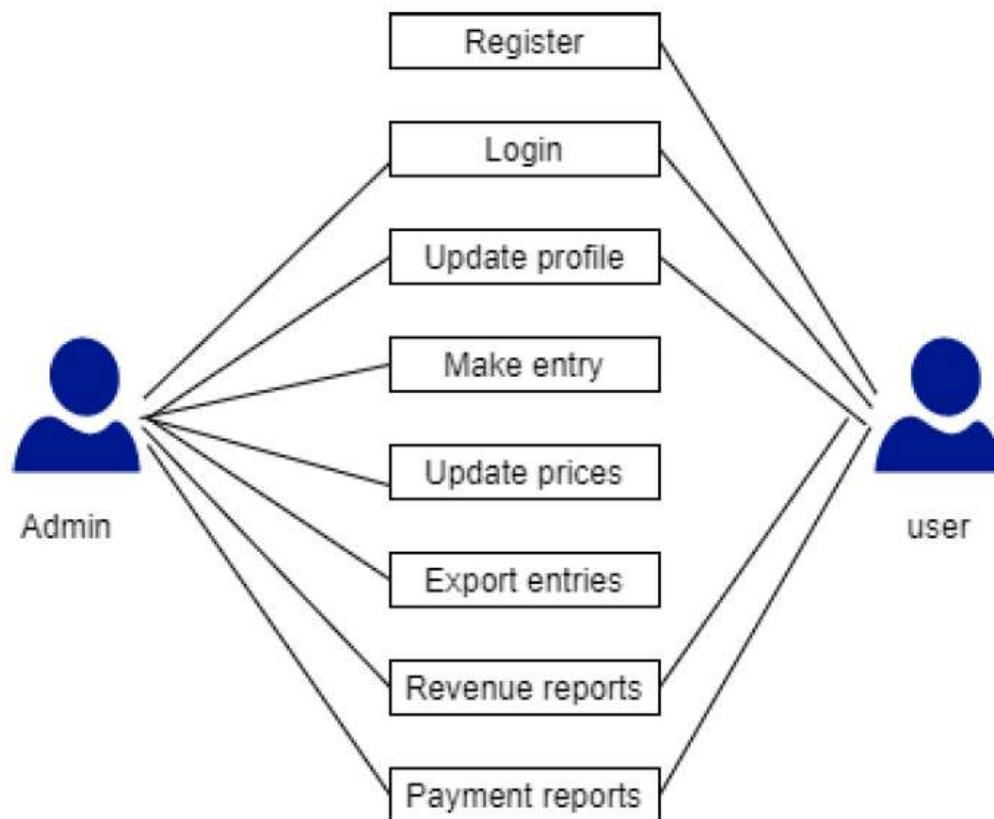
4. ARCHITECTURE

Fig -1: Architecture of Dairy Management System

5. MODULE DESCRIPTION

1. **Admin Module:**

    The administrator module does not need to be registered as it already has an ID and password set. Administrators can basically do everything from dairy members to milk records, update milk prices according to industry standards, make export records and prepare invoices. Administrators can view all members registered on the platform and their profile information such as email ID, phone number, address, bank details for payment, etc.

2. **User Module:**

    The user module is for dairy members where they can view their lifetime contribution of milk to the dairy and up to any specific date. Also, the user will see the latest milk prices from the dashboard homepage when the administrator updates from his dashboard. In addition, the user can also create a copy of the invoice for payment or is pending.

6. REFERENCES

[1]. Amir Shabani (2015), ―A New Super-Efficiency Dual-Role FDH Procedure: An Application in Dairy Cold Chain for Vehicle Selection‖, International Journal of Shipping and Transport Logistics, Vol. 7, No. 4, pp.426-456.

[2]. https://www.researchgate.net/publication/262404158_Using_a_Dairy_Management_ Information_System_to_Facilitate_Precision_Agriculture_The_Case_of_the_AfiMilk_R_System

[3]. https://www.techpathway.com/dairy-management-system

[4]. https://pierre-fontaine.medium.com/dairy-management-system-features-benefits-and-useful panels-e13b6149112f

[5]. https://www.researchgate.net/publication/283170476_A_New_Software_Programme_for_Data_ Management_in_Dairy_Farms