

Dairy Automation

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Abstract: Dairy Automation is an application or software designed to manage activities related to daily work such as milk collections from members, sales to the customer and all the dairy-related processes. It became tough for dairy owners to manage all dairy work manually. To reduce manual work, A Dairy Automation System can help to make day-to-day dairy related activities easier. In this Dairy Automation application, we will provide information about animal feed in milk dairy. The whole process you can manage with one app. Dairy software also manage in reporting, and accounting. To Manage various role of dairy, dairy owners need a dairy management system. It can ease a variety of a dairy process like member management, report analysis, accounting, milk supply and many more. Thus, the Dairy Owner can manage his contacts and daily working schedules through this application. This application avoids user to make manual contact diaries to store the contact address. Dairy Owner who is working on system can set events for the important work. Events will remind him about that work. The DairyMember also able to Read the Messages.

I.INTRODUCTION

In everyday life user faces some problems when they going to milk dairy like loss of passbook, fill incorrect data by dairy owner. For dairy owner it is also difficult to maintain and manage all records of user. As a technical student we are making a platform to make connection between the people and organizations easy.

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The Dairy Automation application is user friendly and user can handle it easily. The system saving time. This application is suitable for computerized data entry, Maintaining Dairy Information, Customer Information, Milk Rate Information etc. For develop android application of Dairy Automation we use Java, PHP, MYSQL and Android technologies.

Java: Java is a widely used object-oriented programming language and software platform that runs on billions of devices, including notebook computers, mobile devices, gaming consoles, medical devices and many others. The rules and syntax of Java are based on the C and C++ languages

PHP and MYSQL: MYSQL is used as a database at the webserver and PHP is used to fetch data from the database. Our application will communicate with the PHP page with necessary parameters and PHP will contact MYSQL database and will fetch the result and return the results to us.

Android Studio: Android Studio provides performance profilers so you can more easily track your app's memory and CPU usage, find deallocated objects, locate memory leaks, optimize graphics performance, and analyze network requests.

II.LITERATURE SURVEY

In the Paper [1] the create a dairy farming application for end users (Customers and also Farmers). In that application the price of milk is update with the current prices of Dairy Products. The App shows essential tips for keeping their Poultry and Farming animals healthy. The App shall consist of a Feedback page for further improvements and bug or error report. Mobile application development is the process by which application software is developed for small handheld devices such as smartphones, tablets, etc.

The aim of the paper [2] is the application also solves the differences between Vendor and his Customers. This application will be resolving the basic situations like a disagreement between Vendors and Consumers about totaling, monthly estimation of total sales, and wastage of resources which otherwise would have caused losses to the small people who cannot afford such losses in their financial situation. It is easy to understand interface on both the ends of the application brings the convenience of its users to manage products and their availability and the history of when and where the product, gives Digital confirmation of delivering product.

III.METHODOLOGY

1. Proposed Work-

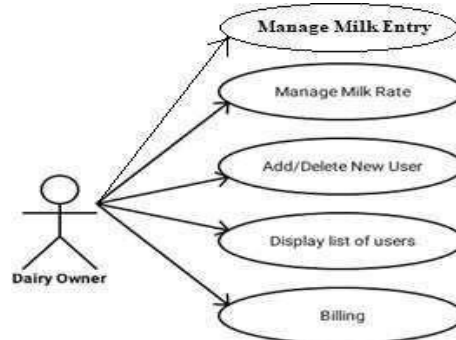


Figure 1- Use case Diagram of Dairy Owner

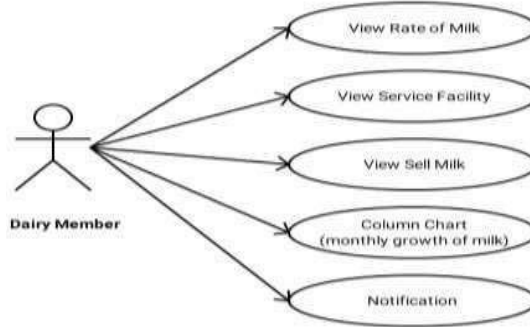


Figure 2- Use case Diagram of Dairy Member

The Figure 1 & 2 shows the Use case Diagram of Dairy Owner and Dairy Member. The Use-case diagram contains two major modules with their sub-modules as follows:

1. **Dairy Owner:** The Dairy Owner is a person who manages dairy organization and all milk related records.
2. **Dairy Member:** The user can be a person who member of an a dairy farm, taking care of cows and buffalos who producemilk that can be turned into dairy.

IV.SYSTEM REQUIREMENT

Implementation details like hardware requirement, software requirement, platform, language etc.

Hardware Requirement:

64-bit Microsoft windows 7/8/10/11

X86_64 CPU architecture, 2nd generation Intel core or later or AMD CPU

8 GB RAM or more

At least 8GB of available disk space.

Software Requirement:

Android Studio

Languages:

Java

PHP

Database:

SQL

V.CONCLUSION

The proposed android application is designed for the milk dairy. We design this application for the dairy owner and dairy members. This is user friendly and easy to handle. For that application we design the main two modules such as User module and Admin module.

References

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