Web Base and Android Base Automatic Dairy System

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ABSTRACT: As long as traditional stock of low milk production potential continue to be the major source of milk for the rural peoples from our countries area.As this is the traditional approach of collection of milk. In order to change this situation, this paper designs an Android-based management system which applies to dairy farms. In this system, the mobile terminals are based on Android intelligent platform while this system is also designed close connection with the norms of the day-to-day operations of the field staffs.We integrate Wi-Fi, data synchronization and other technologies to achieve informationization management in dairy farms, and to improve work efficiency as well as economic benefits of dairy farming enterprises. The design and application of this system can benefit stockbreeding's standardizations and informationization in our country and supply other domestic breeding industry with technical support.

KEYWORDS: Cloud computing, Android System, Data sharing, Web Services.

I.INTRODUCTION

In this system we achieve theefficiency and security related to the system .In this system we are going to express the way which we cover the services provided by cloud.So basically in this system firstly there will be a user who will add the records by route wise and route user will add records of farmer. Through user will add records by entering details of user and generate daily report and send daily notifications from cloud server .This record will be uploaded at cloud server .When this data is to be uploaded when there is a internet connection At cloud when data is uploaded this will goes to the collection record of milk.Through this it will goes to the bill generation and billing processing .And to this bill generation this will goes to the accounting it will indicate that how many data is available and through accounting it will be done through that is through bill generation will be done. Stock is the module which gives that for storing our products and collection.It will says that How many data is sold and purchase on that basis it will deduct the amount or records.So this is the system for business analytic and through it will be the business application and it will for the rural villagers for earning the money and through this will be the very helpful system and for the rural villagers. Cloud Computing Services (SaaS, PaaS or IaaS) provide an enormous application potential for companies. That is, a company can outsource large parts of their IT infrastructure, and hence maintenance and servicing of these systems, for favourable conditions to a cloud provider. The main task of reducing the manual work and also we upload farmer data on cloud automatically. We access this data anywhere at any time. Therefore, our main goal is to provide better services between cloud service provider and cloud users. Further more, we try to solve the problems which are occurred in existing system.

II. SYSTEM ARCHITECTURE

In this system we achieve the efficiency and security related to the system .In this system we are going to express the way which we cover the services provided by cloud.So basically in this system firstly there will be a user who will add the records by route wise and route user will add records of farmer.Through user will add records by entering details of user and generate daily report and send daily notifications from cloud server .This record will be uploaded at cloud server .When this data is to be uploaded when there is a internet connection . At cloud when data is uploaded this will goes to the collection record of milk.Through this it will goes to the bill generation and billing processing .And to this bill generation this will goes to the accounting it will indicate that how many data is available and through
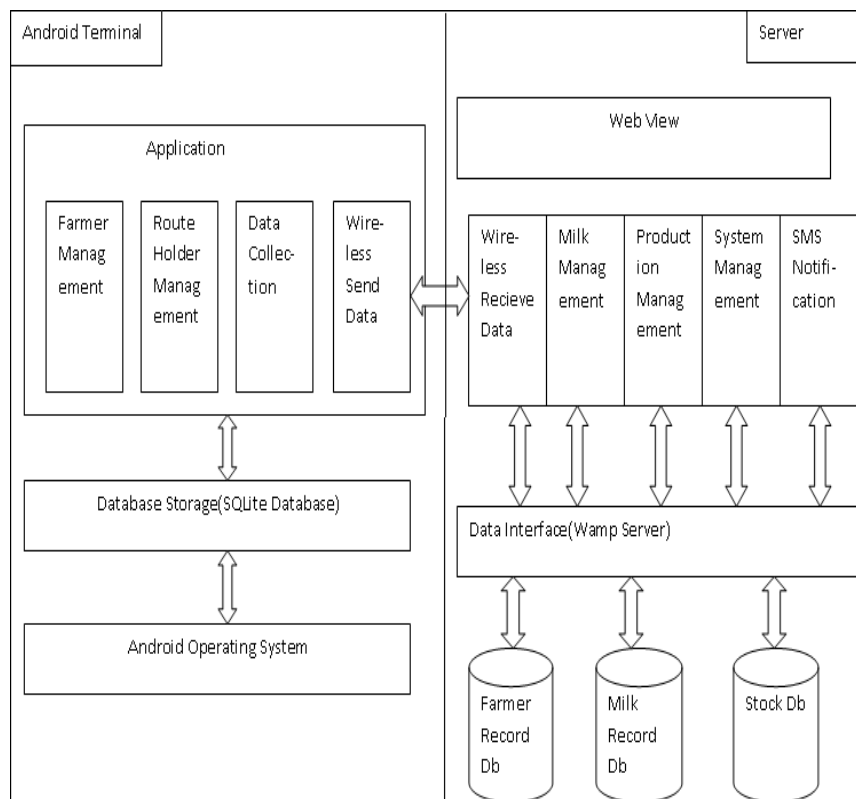
accounting it will be done through that is through bill generation will be done. Stock is the module which gives that for storing our products and collection.It will says that How many data is sold and purchase on that basis it will deduct the amount or records.So this is the system for business analytic and through it will be the business application and it will for the rural villagers for earning the money and through this will be the very helpful system and for the rural villagers.

Fig1.Software Architecture

Management layer can make a strategic decision according to these data. So that management layer can discover the existing problems and discuss the solutions in time. At the present farming we used the android based terminal at client side.The farmer management, and route holder management,data collection and wireless data send this modules are present.Through wireless data send to the Web view at server side and the modules which are at server will be the wireless receive data,milk management,production management,system management and SMS notification. Data interface in this is WAMP server.By this way this module can improve the efficiency of the system.Major software architecture of the system shown in fig1
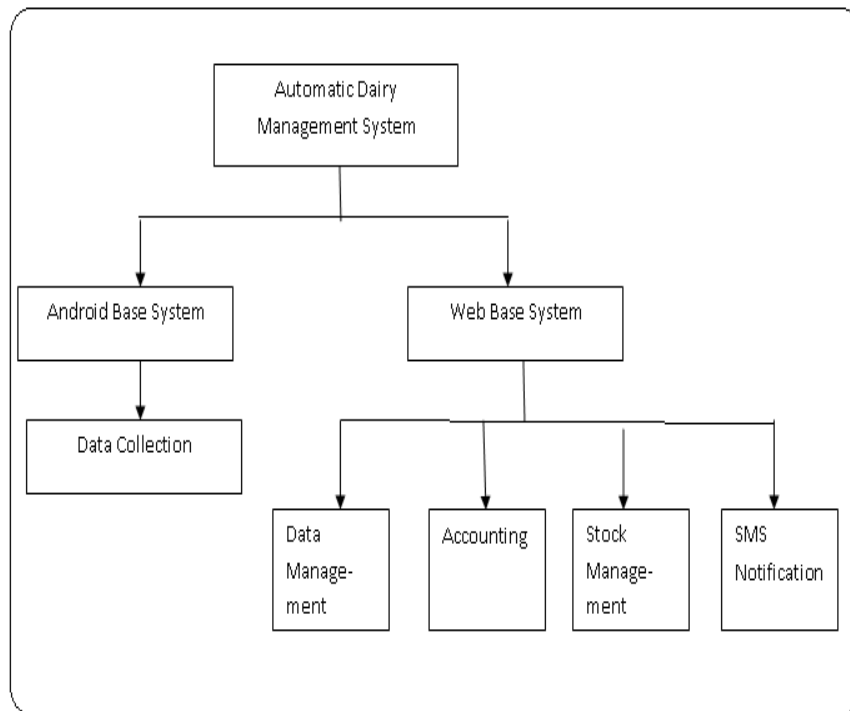
III. FUNCTION MODULES

Through a detailed analysis and discussion for the needs to dairy farming enterprises., this paper divide Dairy management system designed for dairy farms into two subsystems:Android based system,web based system.Android system contains into Data collections,Farmer Management module.Web based system contains Data management, Accounting,stock,sms notification.

Fig 2. System function modules

A. Android based Management system

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B. Web based management system

At cloud when data is uploaded this will goes to the collection record of milk.Through this it will goes to the bill generation and billing processing .And to this bill generation this will goes to the accounting it will indicate that how many data is available and through accounting it will be done through that is through bill generation will be done. Stock is the module which gives that for storing our products and collection.It will says that How many data is sold and purchase on that basis it will deduct the amount or records.
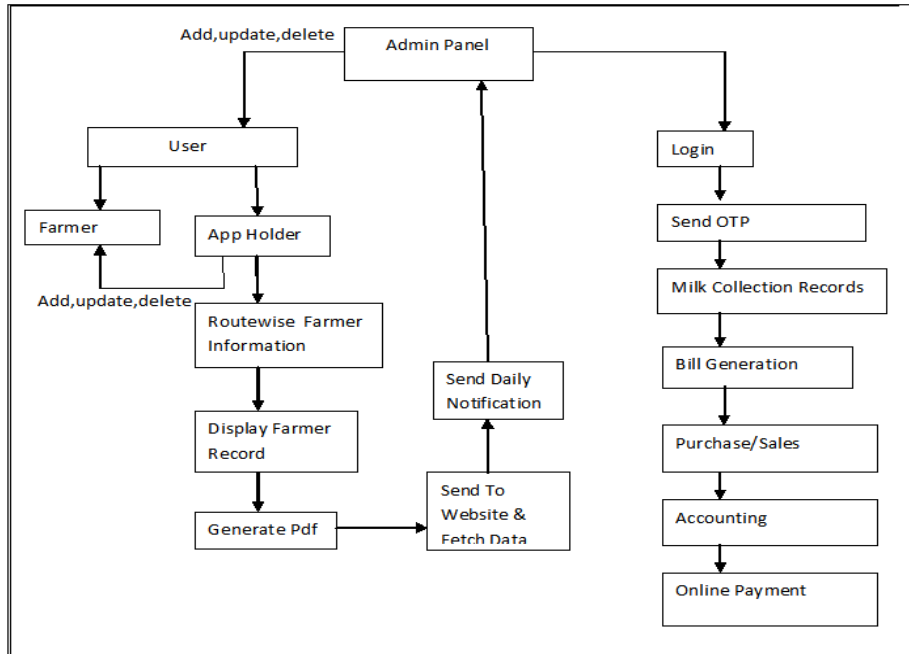
Fig.3. Working ofFunctional Module

IV. RESULT

Farmers were the main beneficiaries of this project. The main advantages of the milk collection systems as compared to the traditional methods are as follows:
1. Immediate payment for the milk delivered;
2. Accurate information about the fat content, quantity of milk and the payment due to the farmer is displayed; Immediate testing of the quality of milk as against testing after 2 to 3 hours of collection;
3. The elimination of manual registers for all kinds of information and data storage.

Table 1. Customer Payment Slip

Date	Qty	FAT	CLR	SNF	Rate	Amount
27/04/2017	7.4	4.9	31	8.37	9.4	69.56

V. CONCLUSION

We develop mobile terminals for dairy farming enterprises by using Android embedded operating system, it provide convenience for the staff who work at the scene. Terminals can synchronize information about cows, milk production, breeding, feeding and fodder to the server-side through Wi-Fi.
This is excellent blending of android and web base. The milk collection parameters such as weight, FAT are calculated by this system gives same results as the existing systems which are more costly than the developed one.Use of android app to enter the daily billing for a former makes it convenient for the dairy management and farmer to keep account of the entries made for a month and beneficial to Indian farmer.Farmer has daily update of milk given to route user. root

user saves the data from the farmer and send to the server. Where admin has full access to the data ..he/she does the calculation and send the daily update to the customer/farmer.

REFERENCES

1. LIKKI RAJEEV , P. SURESH KUMAR , S. KOTESHWARA RAO, "Design of Milk Analysis Embedded System for Dairy Farmers",IJATIR 23-25 August 2015
2. Yadav S.N, Mrs.Kulkarni V.A, Gholap S.G, "Design of Milk Analysis Embedded System for Dairy Farmers", IEEE 23-25 Jan. 2013
3. RupakChakravarty, a paper on" IT at Milk collection centers in Cooperative Diaries: The National Dairy Development Board Experience", pp.37-47.
4. PELEGRINE D.H.G.a paper on "Dairy Products Production with Buffalo Milk" IJAST May 2014
5. Wolf, W.H., "Hardware-software co-design of embedded systems", IEEE Jul 1994, Page(s): 967 – 989
6. Harold Macy, W.B. Combs & C.H. Eckles, "Milk & Milk Products", TMH, Fourth edition 1990.
7. JurjenDraaijer, "Milk Producer group Resource Book a practical guide to assist milk producer groups", Pp.37-40.