

Android Application for Sugar Cane Field Registration

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Abstract - *Advancements in the field of Information and Communication Technology has altered the way we collect, process, distribute and use information for the benefit of the society. In conventional system lot of time is taken to collect, process and convert this data into useful information. With the help of Android Application for Sugar Cane Field Registration we can collect the field data and send it to the web based application for further processing. The need for the fast transmission of field data than the conventional system, the use of mobile devices to provide prompt and consistent communication between sleepboy and admin. the proposed system reduces the time, paper work and delay in the field related scheduling. Sleepboy can easily enter the field related data on android device and send it to the web based application through internet though if internet is not available he can store the data locally and send on reception of internet. The web based application is held by the admin who generates reports ,registers new farmers and create schedule of cane field that has provided by sleepboy. This proposed system provides an appropriate and effective android application and web-based application of field registration.*

Key Words: Android, Sleepboy, Webapplication, SQL-Lite.

1.INTRODUCTION

Since last few years the growth of telecommunication industry had increased sharply. The mobile services becoming cheaper and so the mobile handsets. A simple android mobile contains all features like a camera, internet access, Wi-Fi, typing options, sufficient memory and processing power. These mobile sets are cheap and easy to use. No specialized training has to be provided to the user to operate them. The proposed system that is android application is developed for sleepboy. With the help of this application he can take the field data of respective farmer and submit it to the web based application for further scheduling. Sleepboy enters the farmer id that has provided already after fetching the data from web the data about cane type, water type and survey number has entered and submitted to the web. It reduces time, paper work and travelling costs. The web based application is used by the admin who takes the field data provided by sleepboy and make a schedule of field related tasks such as harvesting, billing. Admin can manage all the information related to the

field, also registers new farmers and generates different types of report. The proposed system is designed to develop an appropriate and effective android application and web-based application for field registration. The proposed system provides fast processing of field data of farmers that will help to provide clear picture of their field related schedules and also helpful while generating bills.

1.1 Aim & Objective

The project aim is to develop android application and web based application. The Android application enables users to fill field related data. This data contains water type, cane type. The web based application allows registration of farmer, employee. It also provides bill and report generation facility. To design android application for the sugar cane field registration. To design website for a Shahu Sakhar Karkhana. To provide detailed information about farm, farmers and also displayed information about cane area, cane type, cane category, water type etc. This contains information about total system of cane yard. Factory select harvester and transporter and gives advance money to them. This contains information about total system of cane yard. Factory select harvester and transporter and gives advance money to them. Sleep boy should be able to add, modify or delete records before field cane registration. To design a system to reduce paper work regarding the services provided by sugar factory.

1.2 Motivation

In existing system the all the Field related data is collected manually, then it takes few days to send the data to the factory. In current process the sleepboy uses PDA device to take the Field related data it is time consuming and data is stored manually. If the manually stored data is lost then sleepboy has to visit the Field and collect data once again. The existing system requires lots of paper work and it is time consuming. The admin should not be able to predict the Field related schedule for further processing. The existing system is not beneficial to the farmers due to more time is consumed for the processing of the Field related data. We implemented android application for sleepboy that will be helpful to collect all field related data. The collected data can be sent to web based application. This will reduce paper work and save the time. Web based application is

implemented on behalf of admin. It allows registration of farmers, employees. It also allows bill generation and report generation facility.

2. LITURATURE SURVEY

2.1 Related work

The system is divided into two parts android application and web based application. The android application is developed by using java, eclipse. The web based application is developed using php and MySQL. The android application is used by sleepboy. Sleepboy enters field related data to the android application and send it to the web based application. The web based application used by admin to register new employees and farmers. It will also useful to generate bill and reports. This application is useful for sugar cane industry which will reduce paper work, time. It will provide fast field related data processing facility. The Farmers and employees can easily registered with the factory.

2.2 Problem statement

Design the software to support “Android Application for Sugar Cane Field Registration” including android application and web based application to be shared by sleep boy and admin. The sleepboy has provided android Application to maintain the famer and their farm records. The android application is owned by the sleepboy which communicate with web based application. The sleepboy enter the details of farm of the farmer. The farm details are sent by the android application to the web based application which is controlled by the admin that clears the details of the farm. Admin interacts with the web based application and carry out further schedule such as harvesting, billing, generating reports. The system requires appropriate record keeping and security provisions. The Shahu Sugar Cane Factory will provide their requirements on that basis we have to design the android application and web based application.

3. PROPOSED SYSTEM

The proposed system is to develop an appropriate and effective android application and web-based application of field registration. The android application helps the sleepboy to maintain field related records such as cane type, water type, survey number. The sleepboy can send the field records to the web based application. The web based application stores data of registered fields, new farmer registration records and reports. Web based application is held by the admin. Admin takes field related data and prepares schedule regarding field and registers new farmers as well as generates reports. The proposed system reduces paper work, time and controls costs.

3.1 Proposed Architecture

System aechitecture contains the all modules function . How to retrieving of data and from database is and how the detail of each one module would be store into main database is done in as the links , that the link is connected to the system module to the database.

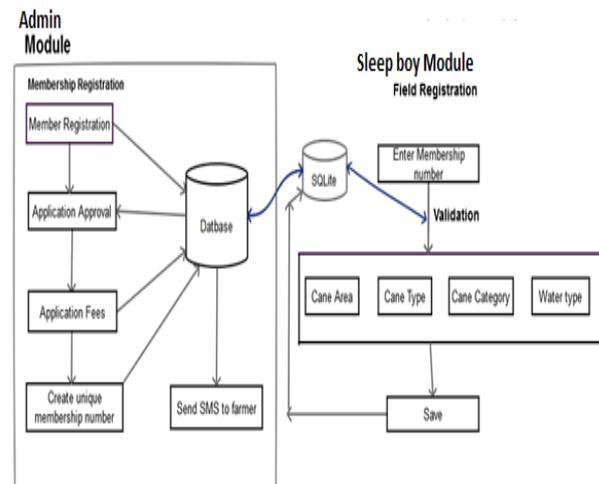


fig.system architecture

4. WORKING METHODOLOGY

In this project the sleep boy visits the client farm, there he register the master data that is field registration on android application, and he can directly send the information to the web based application or store the data on the local database depending on his device network connection. Sleep boy have ability to add, modify or delete order record before field cane registration.

4.1 Android Application

The android application contains field related data that needs to be filled by sleepboy on farmers field. This data is further sent to the web based application. If field data is not sent due to network problem then it is saved on the android device and later sent when the network is available.

4.2 Web Based Application

The web based application used by the admin to register the new employees and farmers. It takes field related data that is sent by android application and prepare further schedule. It also provides bill generation and report generation facility.

5.1 Sleepboy module

5.1.1 Login window of sugar cane field registration

The sleepboy login to the system by using user name and password. If login fails he has to relogin to the system using valid user name and password.

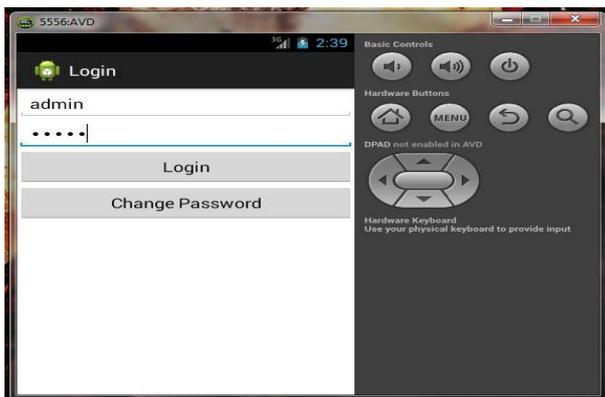


Fig5.1.1:Sleepboy Login

5.1.2 Canfield registration

After successful login sleepboy enters cane field data such as year, village, area, cane type and retrieves survey number from web based application.

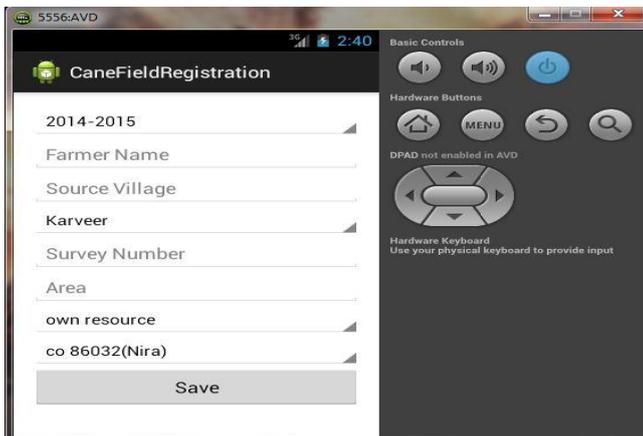


Fig.5.1.2 :CaneField registration

5.1.3 Synchronization of data with web

After complete filling filed data submits and synchronizes this data to the web based application. If the network is not available then the data is stored on local database.

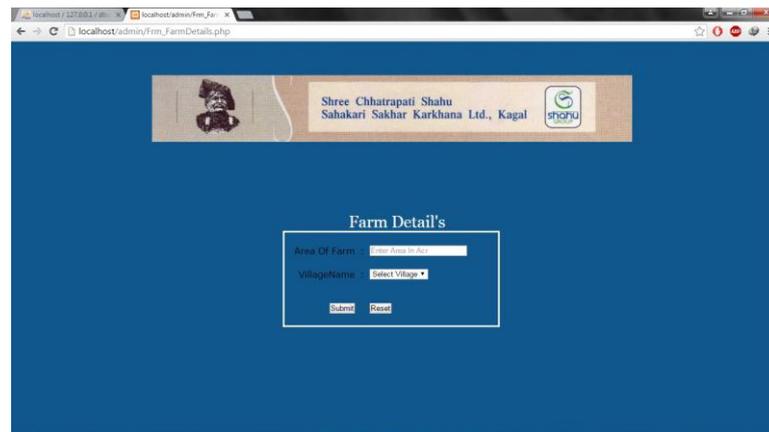


Fig.5.1.3: Synchronization of data with web

5.2 Admin module

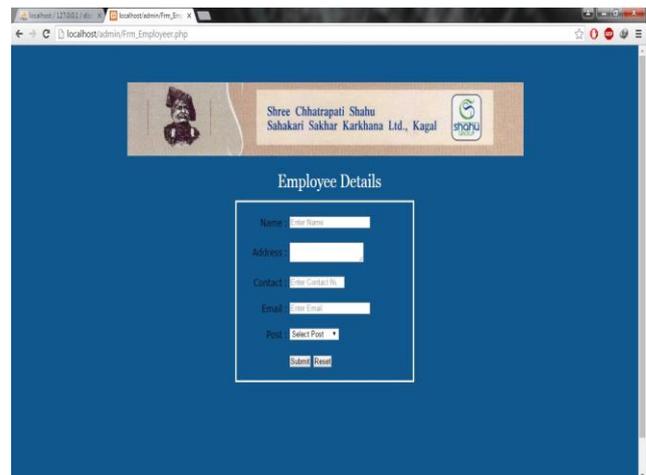
5.2.1 Farm Details

Farm detail form describes the area of form and village name. Here the area of farm and village name data entry is carried out.



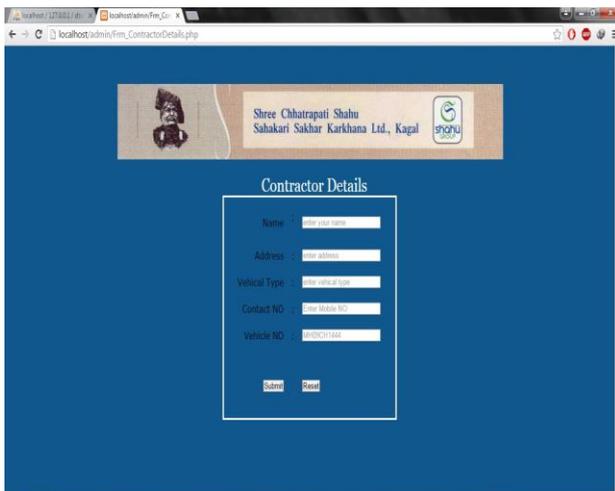
5.2.2 Employee details

Here in this employ details form the registration of employee is carried out, for registration the employee need to mention is personal details like name, address, contact, email.



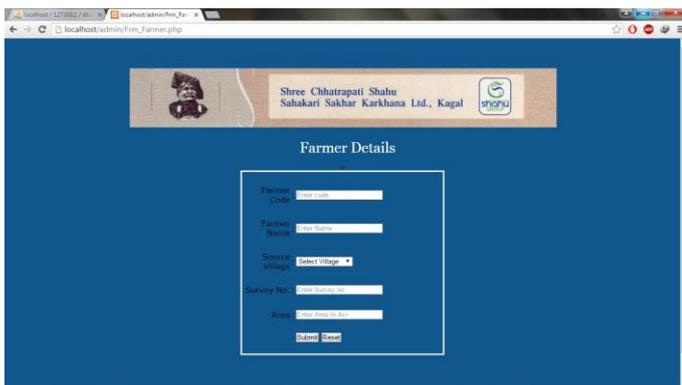
5.2.3 Contractor detail

Contractor is the person who is responsible for supplying the sugar cane to the factory, so to know that the contractor is valid it is necessary to register the contractor. The details of contractor are name, address, vehicle type, contact number and vehicle number.



5.2.4 Farmer Details

To know the valid farmer is necessary that farmer should register. Every farmer has unique farmer code for registration of new farmer details like assigning a new farmer code, farmer name, source village, survey number, area.



3. CONCLUSIONS

It is required to maintain and register farmer records by using the sleep boy with smart phone. By using admin module it is possible to maintain all the registered fields that are registered by farmer. Web-based data is feasible to maintain records. The system will provide transactional processing and generating daily report necessary for further calculation and print as their format.

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