

Kisan Seva Android Application

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ABSTRACT

Kisan Seva is android app developed to help farmers by providing relevant information to them quickly. Farmer provide good platform to sell the crop. Providing the direct link between the farmers and customers. Farmer should get appropriate rate/value to their goods/products. Farmers have to sell their product/crop according to committee rate. They can get the information on weather of current day and next 5 days, dealers, market prices, agro advisories, plant protection, IPM Practices etc. Unique features like extreme weather alerts and market prices of commodity in nearest area and the maximum price in state as well as India have been added to empower farmers in the best possible manner. Farmers have to sell their product according to committee rate. But suppose he don't get the appropriate rate then he has to pay the return travelling expense also. Hence we want to make changes in this system by providing the direct link between the farmers and customers. The Kisan Seva Android Application provide service to the customer is searching the crop/products in own area and purchasing the products .It provide the information of the products/crop like product quality, quantity and price. To enhance farmer income, raise in productivity and revenue by using this technology because of agriculture has been one of the important sector in many countries for connecting rural areas to other countries. As, Communication between the farmer and user is important, the Kisan seva android application plays very important role in real. For this purpose, Inthis paper, the focus is on the Android-based agriculture system namely Kisan seva android application with the proper framework and also the database used for the System. The android application framework is designed to simplify the reuse of components .Then How it became helpful for the farmers when compare to some old web-based application ,etc. we use ADT 22.6.0 With SDK 22.6.0 latest tool in March 2014 as a plugin and Eclipse as a platform.

Keywords: Agriculture, Information and Communication Technology, Android, Database.

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I. INTRODUCTION

The Kisan seva android application is best platform for the farmer to selling their products/crop. It purpose to give profit to the farmer. It allow farmer to sell their crop at own price. It provide direct link to farmer and customer. Farmer will get more profit as compare to the manual existing system. Farmer need not go to the market for selling product. Market is assign the multiple taxes in farmer product. But our application avoid multiple taxes. Kisan seva android application is access to famer and customer. Farmer using our application to first registration to the system and login to system and access the application.

Farmer is add our product information like product name, quality, quantity and price. Farmer sell their product to kisan seva android application. Farmer selling the product is crop wheat, Rice, Sorghum,Cattail(pearl), Pappita, Banana, Coconut etc. Our application display farmer home page it contain customer details, customer notification and enroll crops details.

Android Architecture

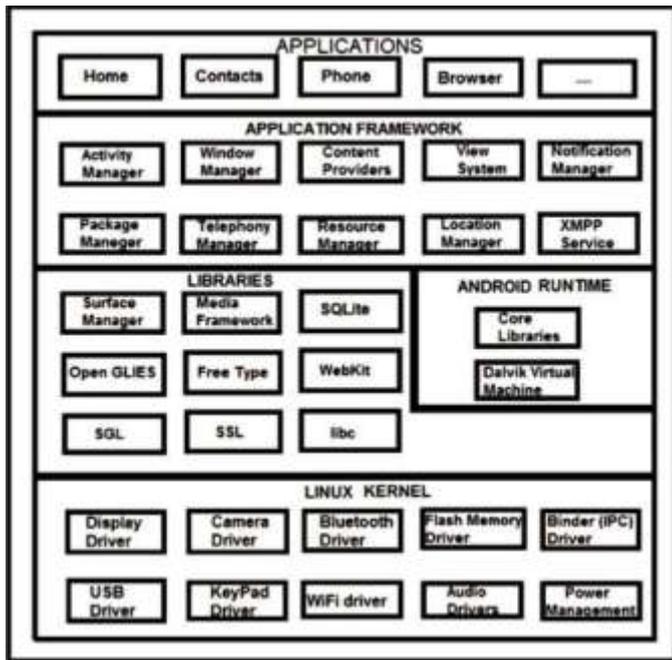


Fig -1: Android Architecture

II. LITERATURE SURVEY

Vishal Sharma, Dr.Sunil giri et al. [1] presented Rice is the basic grain consumed as a food in India which is found in almost every Indian kitchen. It is the most common grain and the most common food in India, however, India is not only a big consumer of rice but also it is the second largest producer of rice in the world after China. India also holds the largest agriculture land for paddy production in the world. In 2009 total arable land for paddy in the world is 158300068 hectare with the total production of 685240469 tonnes of paddy, out of which 41850000 hectare of the area is held by India only, which produced 133700000 tonnes of paddy just second after 196681170 tonnes by China. India leads in terms of the land holding, while the production is led by China. The smallest paddy production and arable land both is claimed by the Russian Federation with 912970 tonnes and 177500 hectares respectively with second lowest figure of Iran (Source: Directorate of Economics and Statistics, Department of Agriculture and Cooperation).

Greg Linden, Brent Smith et al. [2] introduced in order to draw users' attention and to increase their satisfaction towards online information search results, search engine developers and vendors try to predict user preference based on the user behavior. Recommendations are provided by the search engines or online vendors to the users. Recommendation systems are implemented in commercial and non-profit web sites to predict the user preferences. For commercial web sites, accurate predictions may result in higher selling rates. The main functions of recommendation systems include analyzing user data and extracting useful information for further predictions. Recommendation systems are designed to allow users to locate the preferable items quickly and to avoid the possible information overloads. Recommendation systems apply data mining techniques to determine the similarity among thousands or even millions of data.

Li Ma, Li Guet al. [3] presented the current traffic management system relies on pen and paper management of the people violating traffic rules. The new system will be automated, consisting of a real time android application which will generate particular results. The traffic management system provides Traffic Incident Detection, and real time Traffic Flow Metrics statistical analysis. Smart Traffic Monitoring can integrate traffic management and smart roadway systems. This application will store the data like number plate and license number of the convicted person. It works on client-server application model to map Traffic Police to RTO Server model. All this data will be stored on server side in the database. Further, the category of the crime committed is selected. This will generate an automatic amount of the fine. The main aim is to automate the traditional process.

Maria Jiao and Fernandes Abreu [4] presented online classifieds are an evolution of traditional methods of online marketing which are still largely found in newspapers. This type of classifieds made its entrance in the early 90s when internet usage got popular. It was sensible to do online classifieds as there was so much money made by printing corporations in this way. The decision to create online classifieds platform was reached when technocrats saw the multi-billion dollar chance the internet created. There were immense advantages to online trading compared to traditional methods. People had a chance to manage their ads online and this made online classifieds a darling among them. People became more attracted to online classifieds as the internet grew. Even the most populous nation in the world is not well known for the internet usage among its people. Only a small percentage of the entire population actually uses the internet once a month. Despite these appalling statistics, many working people are so conversant with OLX classifieds that you will be surprised.

III. IMPLEMENTATION

By providing facility of information and communication for the farmers easiness more as compare to existing android applications. Most important thing is to use this application on Android based mobile phone or tablet pc which is more useful in day to day life to handle and install application on the tablet and Wi-Fi or Internet Connection using GPRS he can use it properly for the marketing purpose. For that ADT 22.6.0 With SDK 22.6.0 latest tool in March 2014 as a plugin and Eclipse is a preinstalled platform in our 32-bit system.

Attributes	Data Types	Description
name	string	Name of the user
userid	numeric	ID of the user, primary key which is not null
password	numeric	Password should be combination of 1 to 9 numbers
confirm password	numeric	Password should be combination of 1 to 9 numbers

Table -1: Attributes of database

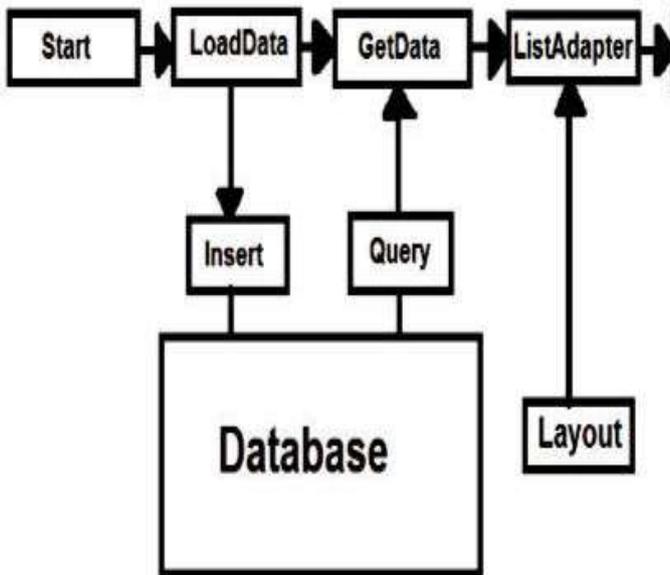


Fig 1: Database Framework

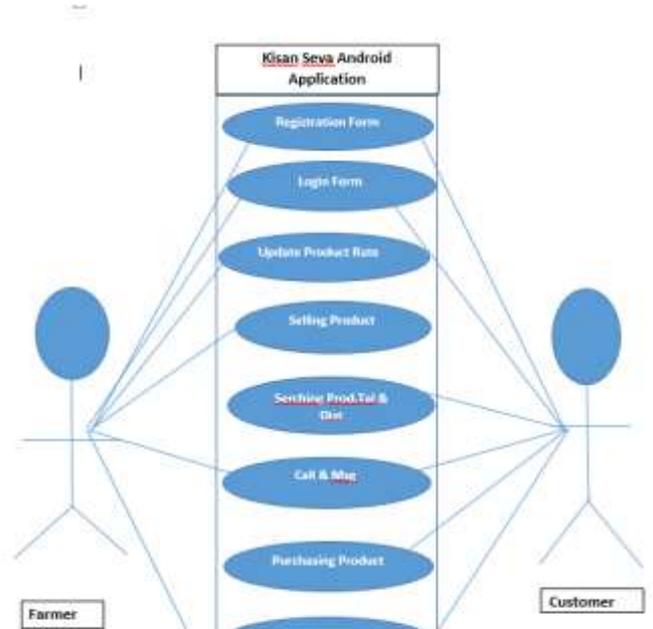


Fig 3. Use Case Diagram

Methods

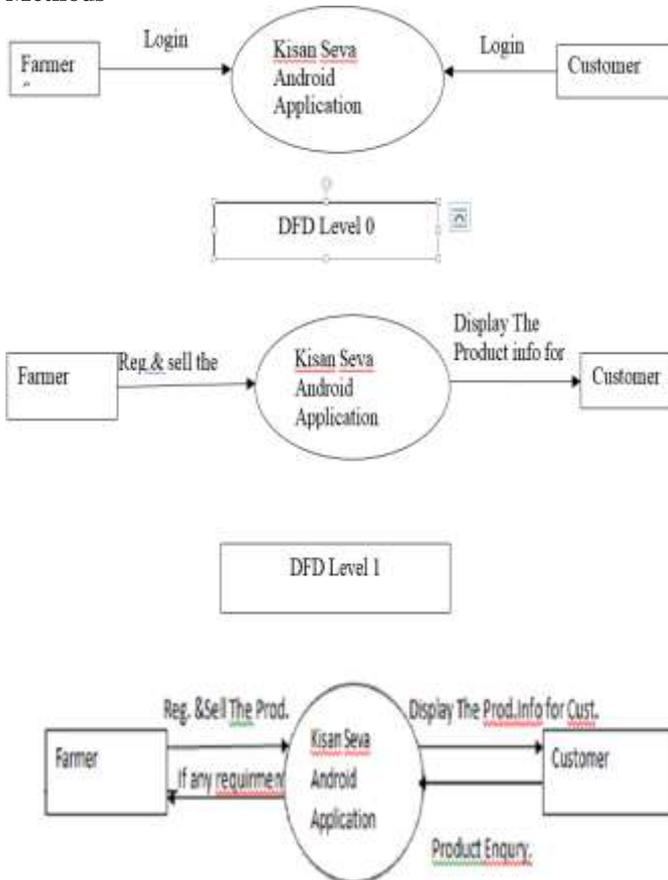


Fig 2. DFD level 2

IV. RESULT



V. CONCLUSION

Through this application farmers can get acceptable prices for their crops, with less effort and great platform by creating the direct bridge between customer and farmer. Also enhance farmer income, raise in productivity and revenue by using this technology because agriculture has been one of the important sector in many countries for connecting rural areas to other countries. This paper

provides the facilities to the user and farmer for information and communication between them by using Android facility with the proper use of database and internet. Proposed work is to perform the implementation Kisan Monitoring System which will really help for the people in rural areas in ICT for agriculture field.

VI. FUTURE WORK

Kisan Seva is a mobile app developed to help farmers by providing relevant information to them quickly. With click of a button, they can get the information on weather of current day and next 5 days, dealers, market prices, agro advisories, plant protection. Unique features like extreme weather alerts and market prices of commodity in nearest area and the maximum price in state as well as India have been added to empower farmers in the best possible manner. Kisan Seva Android Application Provides (Administrator) features like Soils and fertilizers update, Contact us, Help information, Crop details with proper price, also the user (customer) search available.

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