

Android Application for Farmers

Shankar M.patil

Monika Jadhav, Vishakha Jagtap
Bachelor Of Engineering ,Bachelor Of Engineering
Bharati Vidyapeeth College of Engineering
Sector-7, C.B.D,Belpada,Navi Mumbai-400614,India.

Abstract— In India, most of the population is dependent on the farming for survival. Many farmers are not aware about the outside world and the technical advancement about the farming. Most of the farmers doesn't have any idea about the rates of the crops and their products and they sell their products at any cost. In today's world, farmers gets news through newspaper and television. farmer does not get the information or news about the nearest market that is present in their region. So because of that they don't get any idea about the current news about the farming schemes. At the end they have to sell their products at very low cost.

So we are creating a platform for farmers who are using smartphones where they can get the real time updates about the vegetables, fruit rates of every market in India and they will be able to sell their products at the proper rates. Our application gives feature where all the farming related notices from the government will be added and farmers will get a proper information about different schemes. Depending upon certain market condition we are predicating the Rates of the vegetables and fruits. Also we are adding feature of weather information which will help farmers to plan for next 2-3 days

Keywords—*Android, MySql, Smart phone, Weather forecasting, Market Rates, Vegetables*

I.INTRODUCTION

India is an agricultural country. About seventy percent of our population depends on agriculture. One-third of our National income comes from agriculture. The development of agriculture has much to do with the economic welfare of our country. Now our country is self-sufficient in food-grains. In the upcoming years agriculture will see major changes. The vast majority of Indian farmers, which includes small-scale producers are often unable to access the information and technological resources that could increase the yield and lead to better prices for their crops and products.

The data regarding farming are available from many sources like printed media, audio and visual aids, newspaper, TV, internet, mobile etc. but the formats and structures of data are dissimilar. So it's very hard for

farmer to get the information and to understand the various information which are disseminate from various sources. Sometime many manual steps are required while processing data for transforming data from one format to another.

In India, Many farmers are not aware about the outside world and the technical advancement about the farming. Most of the farmers doesn't have any idea about the rates of the crops and their products and they sell their products at any cost. In today's world, farmers gets news through newspaper and television . But not every farmer has time to read newspaper or they don't watch TV as they don't have so much time to sit in front of the TV for some time. So because of that they don't get any idea about the current values about the farming schemes at the end they has to sell their products at very low cost. And because they get very less money, they end up taking loan from the bank or any other person on interest.

As the android is the current trend in the today's world, each and every domain has android based applications. Android Smart Phone is becoming more popular due to low price and free applications. Smart phone makes all our tasks fast, efficient & accurate. Android Market allows Android Smart Phone users to download application freely. Due to this android features, we are developing the farmer helper app for farmers to utilized the maximum benefit.

This Android application for farmers who are using smartphones where they can get the real time updates about the vegetables, fruit rates of every market in India and they will be able to sell their products at the proper rates. Our application will providing the feature where all the farming related notices from the government will be added and farmers will get a proper information about different schemes. Also adding feature of weather information which will help farmers to plan for next 2-3 days.

II.LITEATURE REVIEW

a)MahaFarm- An Android Based Solution For Remunerative Agriculture.This paper talks about Information and

Communication Technology (ICT) in agriculture is an emerging field focusing on the enhancement of agricultural and rural development in India. Using innovation could be a key live within the rural domain. The advancement of ICT may be used for providing correct and timely relevant info and services to the farmers, thereby facilitating an environment for remunerative agriculture. This paper describes a mobile based application for farmers which would exhaustively help them in their farming activities. We propose an android based mobile application – ‘MahaFarm’ which would include agro-based crop information, weather updates, daily market prices and news/loan informational updates. The application has been designed taking Maharashtra into consideration.

b) E-Agro Android Application this paper talks about software application is basically for sustainable development of farmers. Many times farmer is confused to take decisions regarding selection of fertilizer, pesticide and time to do particular farming actions. So to avoid this problem this application is very useful. Fertilizer schedule of every form of crop can get registered. Based on sowing date of crop, farmer will get reminders about application of fertilizer, herbicide as per schedule, pesticide for diseases and weather alerts if particular crop exceeds its favorable temperature range. Crop suggestion are given supported Soil kind, geographical location. Farmer will get real time national level crop rates to get more benefit. This system combines fashionable net and mobile communication systems with GPS for economical and sleek farming. This review paper presents the introduction, theories and analysis of DBMS, use of Smartphone in agriculture. This papers developed on brief study of some common problems faced by the farmers across the nation.

C) Agriculture Based Android Application. This paper talks about AgriCom is a android based application which provides information to farmers regarding different crops and farming practices and other agricultural products. It is dynamic and interactive to take in the feedback and other input from the end users and can guide people regarding the different procedures that need to be adopted. This project shows a simulation of live environment which takes different aspects into consideration like market - demand and supply, production forecast, fertilizer preferences etc.

d) 2.1.5 Online Vegetables Pricing System in Android

This paper talks about Online Vegetables Pricing System is to manage the price details of the vegetables thorough online. The purpose of this project is to automate the existing manual system by the help of computerized

equipment’s and software’s. Vegetables worth info may be transfer within the info. Information retrieving and managing is also easy in this Application. Day to Day, the vegetables price information is updated periodically.

III.SYSTEM METHODOLOGY

a) **User Module:** The User module do the registration in the application. The application provide the details to the user that he wants to access. All the details of user will be stored into the database and it can be secured.

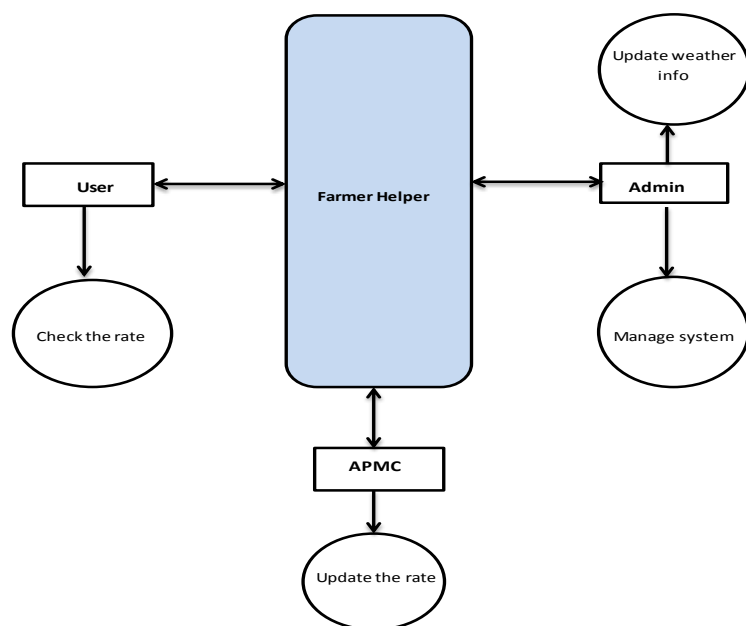


Fig.3.1 System Architecture

b) **Home Screen:** Home Screen is the main page of this Application. this module shows some category options to the user 80 to their choice. By clicking someone option user get main page of that particular category which is easy to use by the user. It shows three type option

- Weather forecast
- Market Rates
- Government Schemes

i) **Weather forecasting**

This weather service is a novel concept which helps the farmers in exploring the details of the weather of a particular location. The farmer can check the details like humidity of any district on the given day, sunrise, sunset, pressure.

ii)Market Rates

Market Price is is important module of this application.it shows the entire Vegetables and fruits price list that are available in the market. The vegetable price is updated by APMC. The price of vegetable is periodically updated by the admin or head of local market members.

iii)Government Schemes

Government of India will launch different Programs which are beneficial to Farmers but drawback of poor performance of this program are they are not able to reach every person and not able to give proper information so here we provide detailed information and Process of different programs.

iv) Prediction

Depending on the certain market conditions of current week and previous one or two week, our system will predict future rates. So it would be beneficial for farmers to sell their commodities at a particular time in a market.

IV.CONCLUSION

The farmers will derive greater benefit when they can make better decisions about where to sell their output after getting market prices for a variety of local and distant markets.

- One Stop Solution to all agricultural information needs
- Location specific information delivery
- Highly authentic and reliable database on agriculture

V.REFERENCES

1.Android Application Development - <https://developer.android.com/>

2.Krishi Ville-Android based solution for Indian agriculture. Authors-Manav Singhal Kshitij Verma, Anupam Shukla. ABV-Indian Inst. of Inf. Technol. & Manage., Gwalior, India. Advanced Networks and Telecommunication Systems (ANTS), 2011. IEEE fifth International Conference on Digital Object symbol ten.1109/ANTS.2011.636865. Publication Year:2011

3.N.K. Mishra 'FAO /AFMA/ Myanmar on improving Agriculture Marketing', Journal on Agricultural Marketing Information System. 2003, Vol 15, issue no 4, pp .no 2-4,

4. Yan Bo and Bu Yibi, 'Agricultural Marketing System in China', Journal on Agricultural Marketing Information System, 2003, vol 15, issue no 4, pp.no 33-37,

5. Brithal, P. S., Jha, A. K. and Singh, H. (), "Linking Farmers to promote for top worth Agricultural Commodities", Agricultural economic science analysis Review, 2007, Vol. 20, pp.no. 425-439.

6. Dhankar, G. H.,'Development of Internet Based Agricultural Marketing System in India' Agricultural Marketing, 2003, vol 4, pp no. 7-16.

7. Pathak N, "Contribution of Agriculture to the Development of Indian Economy", The Journal of Indian Management and strategy, 2009 vol 14, issue no 1, pp.no 52-56,.

8.Shakeel-Ul-Rehman, M. Selvaraj and M. Syed Ibrahim "Indian Agricultural Marketing- A Review", Asian Journal of Agriculture and Rural Development, 2012 Vol. 2, No.1, pp.no. 69-75

9. Xiaolan Fu and Shaheen Akter, 'Impact of Mobile Telephone on the Quality and Speed of Agricultural Extension Services Delivery: Evidence from the Rural e-services Project in India' International Conference on Agriculture social scientist, 2012, issue no 2, pp.no. 1-32

10. Saurabha A,Ghogare, Priyanka M Monga 2015 'E-Agriculture Introduction and Figuration of its Application' International Journal of Advanced Research in Computer Science and Software Engineering,2006, vol 5, issue no 1, ppno.44-47. 2012