

Farmer's Intel

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Abstract: - The aim of the system is to develop a system (Application), to help in the field of agriculture. The main objective of this app is to establish interaction between many formers, formers – students or any other agri experts those are interested in solving formers problems. This site acts as best media for direct communication between former and experts.

Key words— Applications, Farmer's, Portal, Solution, and Agriculture.

I. INTRODUCTION

Farmer's Intel provides detailed information about new and improved technology to farmers. This is farmer friendly, because this removes the difficulties that exist from bringing information from researcher's level to farmer's level. Use and spread of information and problems solving related to Agriculture becomes easier. Problems related to loan amount, marketing, cost of cultivation, estimated profit etc. Can be asked the persons present/tagged in here. Solution will be provided by the person who is well versed in the fielding many solutions, farmer can get best and suitable solution for his ability. Based on the feedback and improvement the farmer gets is also published is awarded. This brings motivation and awareness among the farmers and satisfaction to the people suggest.

II. IMPORTANCE OF FARMER'S INTEL

Agriculture sector has a big contribution in the economic development of India. A large population in India depends on agriculture to fulfill their livelihood. Indian agriculture put in 16% of the overall GDP and gives up the employment to approximately 52% of the population. India occupies the second highest position worldwide in the farm output. Present condition of agriculture is not so satisfactory to produce maximum crop yield because of lack of technology awareness among farmers. As the literacy rates of farmers those involved in agricultural field is significantly low, applying and working with new technology is a major concern. If farmers can embrace new technologies properly, and if they are properly suggested to their problem agriculture sector can be a major sector for generating further employment as well as increasing GDP in developing countries like India Present

III. OBJECTIVE OF FARMER'S INTEL

- The objective of the project is to design and develop "Farmer's Intel", it's a platform for farmers to enhance their knowledge through the online website and mobile application.
- Use and spread of information and problems solving related to agriculture becomes easier.
- Highlighting the formers problems presently facing to the government.
- Here the main focus is getting problems from the farmers and providing better solutions and knowing the problems faced by the farmers. To show some motivational thoughts/videos to motivate the farmer in order to decrease the ratio of attempting suicide.
- On the other hand this even improves the standard of living of farmers.

IV. BENEFITS OF FARMER'S INTEL

- Farmers can clear their doubts at any time by having little internet knowledge.
- Variety of crops suitable with respect to type of soil, new methods and technologies can be discussed.
- Current government schemes also updated here.
- Old discussed problems/topics can viewed from history so that repeated problems can be identified easily.
- Site also helps to the agriculture students for enhancing their technical knowledge.
- Agriculture education through E-learning.

V. SYSTEM OVERVIEW

Farmers who want to post problems the must have the login Username and password. Along with farmers, the experts which will giving suggestions of the posted problems they will must have user ID and password. The diagram (fig.1) has shown below gives some basic

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description regarding the flow of the system. It will give an overview of the operations performed and where it goes after the operation has been performed. It shows the different conditions like (“if else”) if one condition is not true then where the flow will return and from where will it start again or where will the flow terminate after some operation has been performed

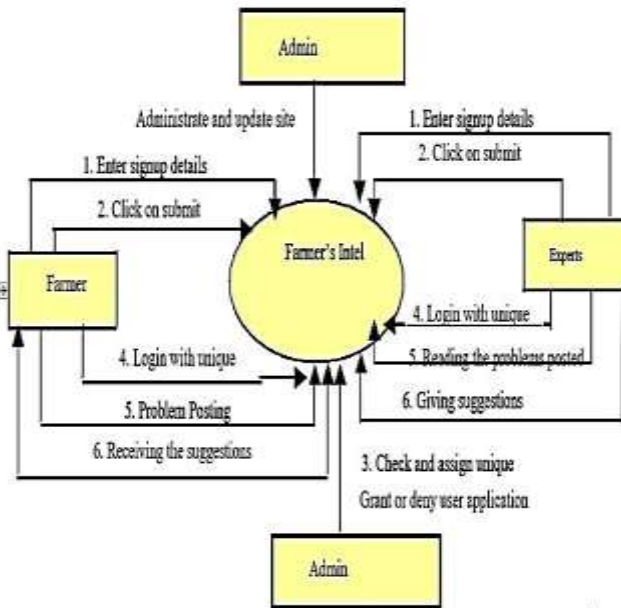


Fig 1: System Overview

VI. METHODOLOG

Following are the basic modules involve in project:

- **Account Generation:** It includes the creation of account, in which basic information of user, type of user, whether he is farmer, agent or Gov.Officer is submitted. Through this module, user gets the Unique ID which serves as the identity of user.
- **Market Information:** Farmer can see the market information of nearby market. This will consist of selling rates of different product, today’s turnover, product-wise details like quantity, grading, selling cost, etc. It will give commodity-wise, market-wise daily report, commodity wise price during last week, community transaction below MSP (maximum sale price), date wise prices for specified community. Farmer can also search for specific product in particular duration of specific market
- **SMS:** Serves as an Alternate to get the market information to the farmers through mobile. User can get message related to specific commodity by sending the keyword to the service number.

- **Compensation:** It lists the packages provided by government to the victim farmers of various natural calamities like heavy rain, drought etc. They can apply for the same and can check the status of their application. Farmer can apply only after log in.
- **Government Schemes:** It lists all government schemes related to particular product and area and can apply in the same way as for compensation.
- **E-Learning:** Includes Documentation, Videos and Audios working as a helpdesk. It will educate farmers about new trends and techniques for farming as well as notice for different workshops that will be conducted. User can view as well as download the content.

VII. IMPLEMENTATION

The system will be having only one User-name and Password section on the front page. In order to join on any conversation or forum member has to login with their id and password. Any people can register on site by verifying their email. There is no need of login for normal user who has the curiosity to know about the market information and different schemes.

Scenario of Project
Scenario 1: Admin

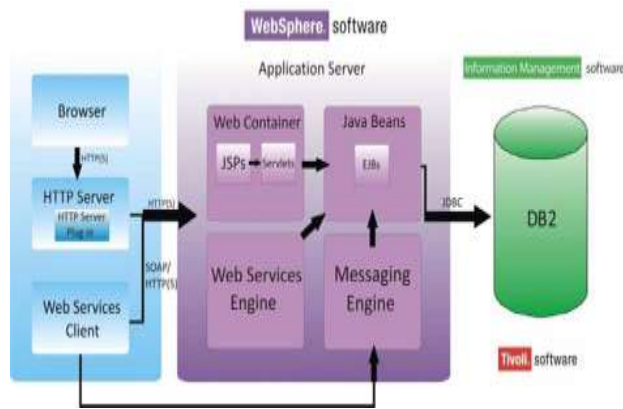
- ✓ Create and monitor accounts of users.
- ✓ Maintain the website.
- ✓ Provide the username and authorities as per user.
- ✓ Update the website.
- ✓ Scenario 2: Farmer
- ✓ Farmers can create new account, log-in to their existing accounts which will give them the authority to use the services provided by the system.
- ✓ Farmer’s Post Problems
- ✓ Receiving the suggestions
- ✓ Scenario 3: Experts
- ✓ Farmers can create new account, log-in to their existing accounts which will giving suggestions.

Software implementation

Proposed application is web application build using jsp, servlet and db2 database. Software implementation is as shown in below diagram.

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- Software Interface:
 - ✓ Client on Internet: Web Browser, Operating System (any)
 - ✓ Client on Intranet: Web Browser, Operating System (any)
 - ✓ Web Server: WASCE, Operating System (any)
 - ✓ Data Base Server: DB2, Operating System (any)
- Communication Interface:
 - ✓ Client (customer) on Internet will be using HTTP/HTTPS protocol.
 - ✓ Client (system user) on Internet will be using HTTP/HTTPS protocol

VIII. CONCLUSION

This project will be helpful for farmers to know more about market information will act as unique interface of schemes and compensation. Through this they will be always in touch of new technique and trends of farming. Overall this system is faster, secure and comfortable. By this project, we provide various information regarding soil, crops, fertilizers for farmers and also for the agricultural students. In future online marketing may be implemented in the site which may facilitate the formers to sell their goods without any brokerage system.

REFERENCES

[1] Singhal M., Verma K, Shukla A., "Android Based Solution Indian Agriculture", IEEE 5th International Conference Advance Network and Telecommunication System(ANTS), DEC-2011 IEEE format.

[2] E-Agriculture in India, IT in agriculture, cloud computing and agriculture
<http://www.ijarcs.info/index.php/Ijarcs/article/viewFile/2856/2839>

[3] Sumitha Thankachan, Dr. S. Kirubakaran
 International Journal of Computer Science and Mobile Computing
<http://ijcsmc.com/docs/papers/February2014/V3I2201408.pdf>

[4] Agricultural Marketing S.S. Acharya ISBN - 81-7188-387-7 Pages-259

[5] Agricultural marketing information and research network. (agmarket.nic.in)

[6] National level journal on agricultural marketing Vol. XLVI, No.2 ISSN-0002 1555

[7] Subsidies in Indian Agriculture and Their Beneficiaries. Agricultural Situation in India, LXII

[8] Dr.V.B.Nargund pathology dept. Agricultural university Dharwad. University of Agricultural Sciences, Dharwad, (UASD) is a State Agriculture ... of Agricultural Sciences Dharwad.

[9] Prasad S, Peddoju, S. K, & Ghosh, D. (2013) AgroMobile: A Cloud Based Framework for Agriculturists on Mobile Platform, International Journal of Advanced Science and Technology, 59, 41 -52

[10] Krishi Vigyan Kendra (KVK) <http://www.icar.org.in/krishi-vigyan-kendra.html>.

[11] Kissan Kerala <http://www.kissankerala.net/mobile/index.jsp#mobile>

[12] V. B. Patel, R. G. Thakkar and H. V. Desai, "An Android Application for farmers for Kharif and Rabi Crops Diseases Information", International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 4 (10) October 2014.

[13] S. G. Karkhile, S. G. Ghuge, "A Modern Farming Techniques using Android Application", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4 (10) October 2015.

[14] A. Tuli, N. Hasteer, M. Sharma and A. Bansal, "Framework to Leverage Cloud for the modernization of the Indian Agriculture System", IEEE International Conference on Electro/Information Technology, June 5-7, 2014.

[15] B. S. Behera, T.K.Das, K.J. Jishnu, R.A. Behera, A.C. Behera and S. Jena, "E-Governance Mediated Agriculture for Sustainable Life in India", International Conference on Intelligent Computing, Communication & Convergence (ICCC2015), May 22, 2015.