

Farm-Tech

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Abstract— Today mobile device are used frequently by everyone, including the farmers. The farmers condition today is very poor in India. There are many reasons for this condition. In the past, it was not known what that the schemes for farmers but the farmers using this application show all the government schemes and support them by providing access to information in the schemes. The company organizes events through all its activities and helps farmers. Farm and events enable people to reconnect with taste and flavors as they are meet to be. Lack of communication among farmers and experts. Digital literacy that is unable to use technology for problems solving. Farm tech application allow farmers to directly communication with each other that is special features like chatting among themselves and to increase level of agriculture literacy. Users are able to view average temperature of a specific location.

Keywords: Android Smartphone, Government Services, Weather Forecasting Farming, Agriculture, Expert

I. INTRODUCTION

Agriculture in India has a significant history. Today, India ranks second worldwide in farm output. Agriculture sector's net share in the country's GDP is 17.32%. Hence, the dissemination of information to the farmers at the time when it is required becomes very important. With the widespread availability of smartphones and Internet, there is a huge potential for supplying essential information via this means. This project presents an overview of mobile-apps targeted to the agricultural sector currently available in Google Play Store, Android Operating System. In addition, a solution of the given problem is designed and presented in the form of an Android application Farm-Tech. The Project also discusses the scope of the discussed applications and what improvements must be made in order to make them reach to a wider audience.

II. EXISTING SYSTEM

In existing system buying and selling a product is done manually. Price of the product is fixed by the seller. All the details of the product to be sold or purchased is maintained manually. Farmer can't know government scheme and weather. The proposed system is information applications about the latest schemes, weather forecast, soil type new techniques and tricks to increase productivity. So he doesn't get the maximum profit through the current system. Farmer also sends his feedback.

III. OBJECTIVE

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.

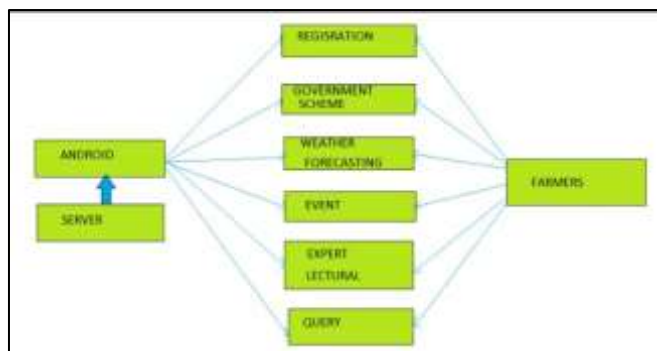
- Use and spread of information and problems solving related to agriculture becomes easier.
- Highlighting the farmers problems presently facing to the government.
- Farmers can clear their doubts at any time by having little internet knowledge.
- Current government schemes also updated here.
- Old discussed problems/topics can viewed from history so that repeated problems can be identified easily.

IV. PROPOSED SYSTEM

Admin is store and manage farmer information farmer is register his information if farmer want to join any event then his register event registration government send government scheme notification to admin and admin send government scheme notification to farmer company is register it information to admin and organize event for farmer in chat box farmer can communicate with expert is solve farmers query and provide advice to farmer .Whether is provide whether information to admin and admin send whether information to farmer.

V. SYSTEM FEATURES:

A. System Architecture



B. Module

1) Admin:

Admin can use web Application Admin can Store farmer information manage the farmer information Admin also send the weather information to farmer.

2) *Farmer:*

Farmer use android application farmer fill information. If he wants to joint any event then he registers event registration.

3) Government Scheme:

Government send new government schemes to admin and Admin is to be sending the farmer.

4) *Company Organization:*

If company is organizing any event then it sends information to admin and also register company registration information also organize event for farmer.

5) *Chat-Box:*

In Chat-Box farmer and expert can chat and solve the queries of farmer.

6) *Expert:*

Expert can solve the queries of farmer and provide advice to farmer.

7) *Whether:*

Whether is provide whether related information to farmer.

VI. METHODOLOGY

- 1) Display of government schemes.
- 2) Weather update.
- 3) Organize event.
- 4) Display query and solution.

VII. CONCLUSION

Smartphones can play a vital role in transmitting information to farmers. Many mobile applications are being developed by keeping the farmers in mind. All the applications overviewed in the paper are developed by keeping in mind some specific purpose and provide the functionalities for the same. The functions are diverse ranging from event information, government scheme information for farmers to weather forecast. Yet, only few were able to capture all the needs of a farmer in its totality- some applications were only in their testing phase, while some were not dynamic.

REFERENCES

- [1] A Modern Farming Techniques using Android Application: SantoshG.Karkhile, SudarshanG.Ghuge.
- [2] Pti. 'Agriculture dependent population in India grew by 50% during 1980-2011'. The Hindu Business Line(2014).Available at: <http://www.thehindubusinessline.com/economy/agriculture-dependent-population-in-india-grew-by-50-during-19802011/article5732072.ece>. (Accessed: 3rd January)
- [3] de Silva, Harsha and Dimuthu Ratnadiwakara (2008), 'Using ICT to reduce transaction costs in agriculture through better communication: A case-study from Sri Lanka', mimeo, 2008.
- [4] Benefits from Rural ICT Application in India: Reducing Transaction Costs in the Presence of Wheel Slips. In: Proc. of the IEEE/ASME International Conference on Advanced Intelligent Mechatronics. IEEE. July 2013, pp. 1534-1539.
- [5] Mittal, S., Gandhi, S., & Tripathi, G. (2010) Socioeconomic impact of mobile phones on Indian agriculture, New Delhi: Indian Council for Research on International Economic Relations, (p. 53).