Krushi Sarthi an Android Application for Farmers

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ABSTRACT

The present report research was conducted to study the "Krushi Sarthi (Android Application) application" is an application developed for managing various activities for helping farmers in farming and agriculture.

The main purpose for such project is to develop a mobile phone based solution that helps in farm management, leads to agricultural yield improvement and helps in care/maintenance of the farms.

1. INTRODUCTION:

Krushi Sarthi is an android application which provides information and services to farmers regarding different crops and farming practices and other agricultural products. It is dynamic and interactive, to take the feedback and other input from the users and it is easy to guide people regarding to the different problems. That provide also information about fertilizers and latest articles about new farming technology and farming technique.

2. RELATED WORK:

During the survey, we referred many papers. That was beneficial only for small scale or for few farmers .Out of all papers survey we specially focused on how semi-illiterate people find it difficult to understand the information of agriculture and to sell their yields in different regions.

2.1 "Krishi-Mitra:

[https://kisanmitra.net]. [1] An Interface for Indian Farmer" focused on The Krishi-Mitra application gives the whole information regarding the crops, Weather status and also user can get the expert advice in Marathi and in English languages. Krishi-Mitra application can be used as smart system which will be more sophisticatedly working for benefit of the farmers. A farmer can be made aware about current weather statistics and new information regarding to crops, seeds, fertilizer etc. just on single click of a button. They can even consult with experts if needed. This application can be very much helpful even if one could not read the information on the device by native language support provided in it. "Study of agriculture marketing information systems models and

their implications" explains complete information on Crop Production, Crop Protection and all relevant agriculture allied services. Options to chat with experts, video-based learning, and the latest government Schemes, etc. are also available on this application. "Online Cab Booking System" published in International Journal For Scientific Research And Development, showcases the development of an interactive website which functions as a Cab Booking System for customers to effortlessly book cabs for travel, the system is named City Cabs. Therefore, this problem can be solved with Online road Transport reservation System where the user just sitting in front of computer to make a booking via Internet.

2.2 KRISHI:

[https://icar.org.in] Agricultural Knowledge Resources and Information System Hub for Innovations, is an initiative of Indian Council of Agricultural Research (ICAR) to bring its knowledge resources to all stakeholders at one place. The portal is being developed as a centralized data repository system of ICAR consisting of Technology, Data generated through Experiments/ Surveys/ Observational studies, Geo-spatial data, Publications, Learning Resources etc.[2]

2.3 Krishi Vigyan Kendra:

[https://simplifiedupse.in]

It is an agricultural extension center in India. Usually associated with a local agricultural university, these centers serve as the ultimate link between the ICAR and farmers, and aim to apply agricultural research in a practical, localized setting.[3]

It is an integral part of the National Agricultural Research System (NARS).

The first KVK was established in 1974 at Pondicherry. The mandate of KVK is technology assessment and demonstration for its application and capacity development .KVKs also produce quality technological products (seed, planting material, bio-agents, and livestock) and make it available to farmers. The KVK scheme is 100% financed by the Government of India and the KVKs are sanctioned to Agricultural Universities, ICAR institutes, related Government Departments and Non-Government Organizations (NGOs) working in Agriculture.

KVKs act as a bridge between the laboratories and farmland. According to the Government, these are crucial to fulfilling the target of doubling farmers' income by 2022.

3. METHODOLOGY:

3.1 BUYING A PLANTS

Buy plants section is leading online plant shopping app, Shop anytime, anywhere from a vast range of products including plants, seeds, Fertilizers, pots & much more at the best prices. Enjoy hassle-free online plant shopping and home delivery at just a click of a button.
* Wide range of products, including fresh plants, flowers, pots & more.

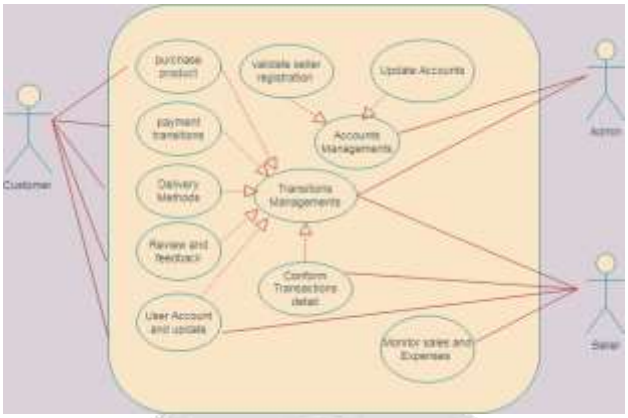

Figure1. Use-case diagram

3.2 WEATHER FORECASTING

Weather is an important factor when we are working in any field. That's the reason to monitoring weather, temperature and winds is important for protecting of our plants and other agricultural equipment

3.3 Fertilizers Details:

This function provides the information about fertilizers. Types of fertilizers and details about fertilizers. It provides information on Fertilizers name, fertilizers details, smart farming with agriculture, and services. In addition to being an information portal. This is an agriculture app for farmers that will be greatly beneficial to the farming community. We work on precision agriculture while building a krushi sarthi for the benefit of farmers and make healthy plants and happy farmer with better returns on the investment for framers.

3.4 Plants Information:

This function provides easy, fast and accurate access to information and knowledge related to the agriculture sector. It not only provides detailed information on crop, and soil, but also vegetables and fruits.

These section are greatly helpful in identifying plants with pictures, and it allows the app users to identify plants just by clicking the fruit, vegetables and crop, seeds picture from their smart phone.

It provides complete information on crop, vegetables, fruits, soil. In addition to being an information portal.

E-R Diagram:

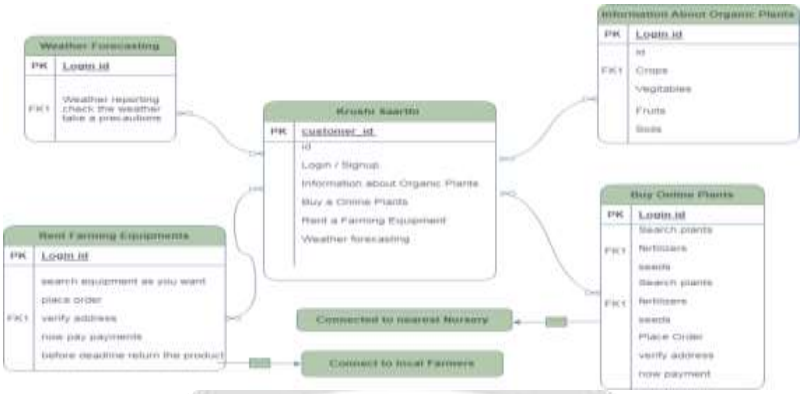

Figure2. Entity Relationship diagram

4. RESULTS

Output

Figure 3. Home Page

Figure 4. Information about plants

5. CONCLUSION:

Finally, with the analysis of current farmer's data regarding fashionable farming techniques and actual development of recent techniques this application can additional useful them to urge all reasonably data solely in one bit on any time at anywhere.

• By this project, I even have learned heaps. The developing amount fills the gap between the particular theoretical study and learning through sensible expertise.

• I have tried my boundary to style and develop generalized on
• "Krushi Sarthi mechanical man application".
• There we tend tore varied things that we learnt throughout this developing amount.

6. REFRENCES:

[1] https://kisanmitra.net

[2] https://icar.org.in

[3] https://simplifiedupse.in

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