

Farmer Buddy

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ABSTRACT— The project is an Web Based built by using in Visual Studio, designed specifically for farmers. It includes several features that aim to enhance crop management, provide daily useful updated news, update farmers about government schemes, offer various crop insurance plans, provide useful videos, and enable farmers to connect with professionals and get their questions answered.

The crop management feature allows farmers to create a record page where they can enter any date with details about what they did on the farm that day, including the pesticides used. All this information is stored as notes, which can be easily accessed and managed.

The website also provides daily useful news related to farming to keep farmers informed and up-to-date about the latest developments in their field. Additionally, the website keeps farmers informed about the latest government schemes and offers guidance on how to apply for them.

Finally, the website enables farmers to connect with professionals and ask questions related to farming and farming problems. In conclusion, the website is an excellent tool for farmers who want to improve their crop management practices, stay informed about the latest farming trends, and access government schemes and crop insurance plans.

INTRODUCTION

Agriculture is the backbone of many countries' economies, and farmers play a critical role in ensuring food security for the population. However, farming can be a challenging profession, with farmers facing various issues such as unpredictable weather patterns, pests and diseases, and changing market demands. In today's modern era, technology can be a significantly for farmers, helping them manage their crops effectively and efficiently. Farming is the Prime Occupation in India, Now a days each and every one are involved in farming system. Farming is the one and only one source of income for the major population that live in rural areas. Moreover while 58% of Indian households still depends on agriculture as

their most eminent source of livelihood, it's time to give more focus on Digital Agriculture for growing and prosperous India.

Our system has been developed to overcome the problems diffusion in manual systems of practice. This Website is supported to remove and, in some cases, reduce the burden on this existing system. Besides this system is designed according to the specific needs of the company's work smooth and effective way.

The Website is minimized as much as possible to avoid errors when entering data. It also provides an error message when invalid data is entered. No formal knowledge user must use this system. Thus, it proves that it is user friendly farm proposed system, as described above, can be error free, safe, and reliable and management system this A can help the user to focus on their other activities instead, focus on record keeping. this will help in improving the farming. Use of resources every organization, be it big or small, has to overcome and manage challenges, information on crops, farms, pesticides, equipment, pesticides each area.

Farm management systems have different needs, so we design specifically person systems that meet your managerial needs. technology has the capability to rebuild the modern economy by maintaining and updating record.

1. LITERATURE REVIEW

1. KISAN MANDI: -

Kisan Mandi was a part of kisan mandi online agriculture market private limited. Kisan Mandi.com is the online agriculture market where you can buy or sell or advertise fruit and vegetables. Kisan Mandi is a free for a farmer, and they are not changing anything from farmer. Farmer can sale their product. It's dealing with the customer directly so the prices of the products offered by the farmer to the customer will also be affordable to customer, which will help both the farmer and the customer where the customer can save some money, and the farmer will gain extra profit that he deserved. Farmers will get unique interface where they can avail everything right from learning to the market information they can perform marketing, get the current rates of market, get in touch with SMS through the cell phones, can gather the knowledge of

different schemes and apply as well as check status of website.

2. KISAN ABHIMAN :-The Kisan Abhiman App the purpose of this App connecting farmer wholesaler, retailers and customer on a common digital platform. Buy and sell vegetables, fruit flows etc. posted by farmers, wholesalers, and retailers As we step forward into the modern era of technology, we may find many engineering related applications very beneficial for improvements into the society. This is the world of technology where people use smart phones for completing their daily tasks like shopping, paying bills, managing work and much more. The idea of this project is to add its features into the lives of the peoples, so that, the food which they buy can be bought directly from the farm so that the profit can reach directly to the farmer.

AGROSTAR Web:-

Agrostar started in the year 2013 Agrostar provide real time solution to farmer for all their agri needs. Farmer can give a miss calling to access. Agrostar platform provide combination of agronomy advise service this app provides agronomy knowledge give the right solution to the farmer Launched as an on-premises e-commerce platform selling farm supplies in 2008, Agrostar turned to Google Cloud Platform to expand its offering.

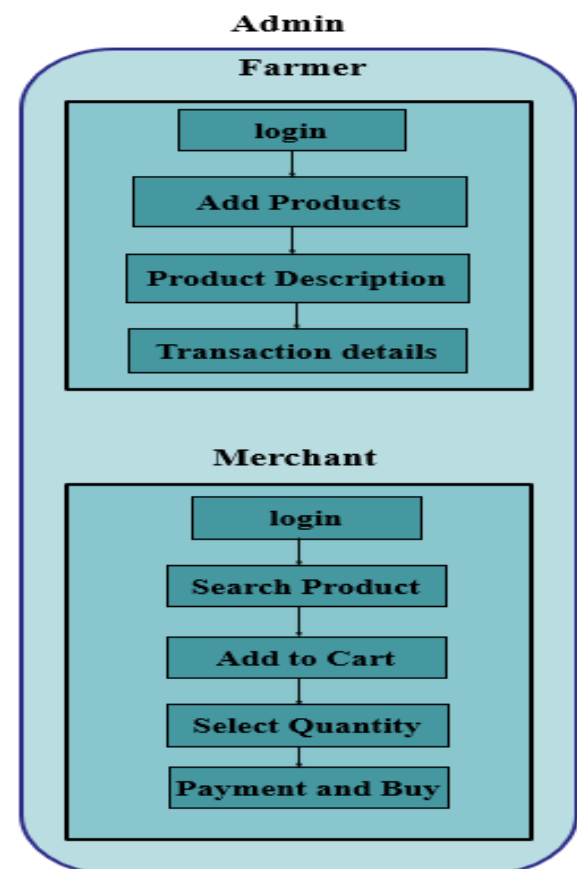
Today one million small farmers in India use its mobile app to connect to a full-service platform that combines agronomy, data science, machine learning, and analytics to boost yields and improve income. Agrostar has reached over a million farmers through its Android app, the Agrostar Agridoctor.

The mobile client is available as a web-based or full-featured native app. Both provide access to the firm's knowledge base hosted on GCP, a QA forum that connects farmers to each other to help understand and better solve problems and to learn about innovative practices and products. Farmers can also click through to follow local and national market trends that help forecast crop prices.

The Agrostar app also provides links to purchase, and then track the delivery of farm tools and supplies such as cultivators and fertilizers. An in-house platform manages fulfilment canters, and a doorstep delivery network simplifies the supply chain while giving farmers what they need, when they need it. By procuring directly from the manufacturers and primary distributors of farm supplies, Agrostar is achieving cost savings, which it passes on to farmers. This project is aimed at providing farmers with access to a digital platform to sell their produce directly to buyers, eliminating the need for intermediaries and reducing transaction costs. Here are some key findings from the

literature: farmers buddy initiatives have the potential to transform agricultural markets and improve farmers' incomes. According to a study by the International Food Policy Research Institute (IFPRI), e-market initiatives in India have improved market efficiency and increased farmer income by up to 15%. The success of e-market initiatives depends on various factors, including the availability of reliable internet connectivity, access to mobile devices, and a user-friendly platform. A study conducted by the World Bank found that farmers in India faced challenges with connectivity and infrastructure when using e-markets, which limited their ability to benefit from the platform. The integration of e-market initiatives with other digital platforms can increase the benefits for farmers. For example, integrating e-market platforms with weather forecasting apps can help farmers make informed decisions about planting and harvesting, improving their yields and income. Government support is critical for the success of e-market initiatives. Governments can play a role in providing infrastructure, ensuring access to credit, and regulating the platform to protect the interests of farmers and consumers.

2. SYSTEM ARCHITECTURE



Objective:

Increase sales and revenue: An online crop selling website can help farmers reach a larger market, increase sales, and generate more revenue.

Support sustainable agriculture: By selling directly to consumers, farmers can promote sustainable agriculture practices and reduce the environmental impact of their farming operations

Advantage:

1. It is helpful to strengthen the communication between different agricultural regions, promote agricultural production to industrialization, and the development of production standardization, and enhance the competitiveness of the agricultural economy.
2. It is helpful to promote the development of agricultural economy in multiple directions and transform the traditional agricultural economic management mode.
3. It is helpful for farmers to quickly and comprehensively understand the dynamic information of the agricultural market, thereby adjusting the agricultural structure, producing agricultural products with large market demand, obtaining higher economic benefits, and promoting rural economic development, and realizing agricultural product marketing information management in agriculture The Website in the economy plays an important role in promoting the development of agriculture in our country.

Future Scope:

1.It is not possible to develop a system that makes all the requirements of the user. User requirements keep changing as the system is being used.

Some of the future enhancements that can be done to this system are:

2.It is not possible to develop a system that makes all the requirements of the user. User requirements keep changing as the system is being used. Some of the future enhancements that can be done to this system are:

3.As the technology emerges, it is possible to upgrade the system and can be adaptable to desired environment. Because it is based on object-oriented design, any further changes can be easily adaptable.

Based on the future security issues, security can be improved using emerging technologies.

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