



Agribuzz- Agriculture Management System

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Abstract: Farming is the primary occupation in India, yet many farmers still belong to economically weaker sections and struggle with poverty. Although advanced technologies and automated systems are transforming many industries, their adoption in agriculture remains limited. This gap is often caused by a lack of awareness about modern farming technologies or the unavailability of such facilities in rural areas. Despite the hard work and production efforts of farmers, many are exploited by middlemen or agents in the market, which further contributes to financial losses. Agro-marketing platforms can help address these challenges by automating processes and providing better market access for farmers. The Agribuzz Farming system is designed to help farmers sell their agricultural products across the country using a simple web platform. With basic knowledge of using the website, farmers can access several useful features. The platform provides information about current market prices of agricultural products, records of total sales, and details of profits earned from their produce. It also offers learning resources about modern farming techniques and provides a centralized portal to view various government agricultural schemes, including compensation programs for farmers. Additionally, the system includes an SMS notification service that allows farmers to receive important information about market prices and product updates directly on their mobile phones. This approach helps farmers make better decisions and improves their access to reliable market information.

Keywords: Website, farm-marketing, market rate, bill, eLearning, SMS facility.

I. INTRODUCTION

Agriculture Management System is to help farmers by providing all kinds of agriculture-related information on the website. Agriculture Management System is a farmer management website application that helps farmers to give best-practice farming processes. It helps farmers to improve their productivity and profitability.

It enables farmers to sell their productions online and farmers can purchase tools and seeds directly from the seller. Farmers can view laborers' profiles and they can hire laborers.

This project indicates that Agricultural can sell products online. Agribuzz is a model farmer management website application. This project helps the farmers to sell their agricultural produce online and suggests best-in-practice farming processes. So, by providing a wider market and helping them not restrict themselves to the local market. This enables farmers and retailers to expand their business.

II. CLOUD COMPUTING

Cloud Computing is a form of distributed computing that has been evolving recently. Typically, the cloud symbol is used to represent the Internet. Cloud computing is now widely used to describe the delivery of software, infrastructure and storage services over the internet.

Cloud computing provides tools and technologies for various parallel applications at far more affordable prices compared to traditional parallel computing techniques.

The main purpose of cloud computing is to profit from all of these technologies without the need for deep knowledge or expertise. At present, whether large or small, all companies depend on public cloud platforms to host and implement applications because they supply flexibility, mobility, scalability, sustainability and it is cost-effective.

A. AWS EC2

AWS Elastic Compute Cloud is an Amazon service. It is a virtual server that can be used to run applications on Amazon Web Services (AWS). You can configure an EC2 instance to customize CPU, storage, memory, and network resources. You can also select different types of instances according to your budget and needs.



B. AWS RDS:

Amazon Relational Database Service (RDS) is a managed SQL database service provided by Amazon Web Services (AWS). RDS Service supports an array of database engines to store and organize data. It also helps with relational database management tasks, such as data migration, backup, recovery, and patching.

III. LITERATURE SURVEY

Several kinds of literature were reviewed accordingly and the challenges faced in the use of the manual system in Aflao Ketu South Municipality were revealed. Technological developments and creativity act as tools to exchange information on agricultural activities and improve lives for farmers and the entire society. The use of ICT transforms traditional agriculture into modernized agriculture. The world population is expected to surpass the 9 billion mark by 2050, and agricultural production will need to increase by 60 percent from its levels to meet this additional food demand. ICT applications can make a significant contribution to meeting this future global food needs. Aflao Ketu South Municipality operates a manual system where a spreadsheet is used to record and process data about farm products and this leads to inaccurate and unreliable information. The Agriculture Management System will be developed to replace the existing manual system thereby resulting in to increase in productivity and revenues for the farmers

A Study by Mohezar et. al. identified agricultural management systems among urban communities, especially in Kuala Lumpur. This research explores the trends and patterns of use of farming. The study also focused on consumer perspectives on farming in terms of its usability, reliability, protection, convenience, and performance. The research also explores the effect of demographic variables on e-farming acceptance of e-farming. A survey was conducted amongst Internet users in Kuala Lumpur. Kuala Lumpur was selected to have the largest number of Internet users.

The study found that e-farming is a new trend, as an almost good number of respondents have been purchasing online form for the purchase of forming products seems to have dominated the online forming management system. It was also found that comfort and ease of use were among the factors that inspired respondents to buy e-farming.

The study also found that e-farming purchasers are young, qualified and with a higher income bracket, Sahney et al. found that the modus operandi of the agriculture management system needs particular attention to factors such as the functionality of online search information, website design, and the capacity of all time network availability for online booking. We propose that the flexibility of the Internet should be combined with the convenience of simplified decision-making and collaborative bookings. The expertise of agents should help online customers to find the best option under given constraints and provide efficient support for the impulsive decision.

Jayaraman P., et.al presented the analysis by identifying the needs for agriculture based on the constraints or parameters like weather forecasting, crops farming, rural development, and market identification, relevant to the cloud perspectives and contribution of IoT towards poverty reduction. Kalezhi J and Dlodlo N have discussed the methods in the cloud that reduce investments with top-down architecture principles specially suited for smart cities creation.

A. Existing System

The existing system was not user-friendly. The system does not provide a solution for the new Farm Act 2020. The existing system doesn't have an online sales option. In this existing system, the farmer has to sell the nearest agents. The existing system doesn't provide any information to the farmers

B. Proposed System

Developing a user-friendly agricultural management System for the world wide web which fulfills the Agriculture Interested People's requirements. This website connects farmers with customers. Here customers and farmers can search and view any kind of information.

This website helps farmers to sell their agricultural products online and suggests best-in-practice farming processes. Improvement in quality of the farming system. Continuous improvement in components technology to fit into a given farming system



Targets: Mainly developed to sell Indian crops such as coconut, rice, tea, coffee, fruits, rubber, etc.

Provide all the information for the Research articles, news, subsidies, informative articles, agriculture tools, materials, etc. The complete process of the Farming Management system will be managed online.

To allow users to search and view Information on machinery tools, chemicals, Crops, insecticides, pesticides, etc. using our application. The articles and blog sections help farmers to gain knowledge about agriculture.

The administrator can view and print all kinds of reports. It allows the farmers to keep track of their agricultural products. It helps the farm laborers to find jobs. To provide technology and services to the farmers, merchants, and farm laborers, thus, helping them to expand their business and provide them with a wider market. Hence, improve the present farming processes and to provide knowledge about recent agricultural issues.

To provide a helping hand to the farmers and farm labourers in improving their lives through the medium of technology, thereby, improving the Agricultural Sector in the Indian Economy.

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IV. CONCLUSION

The project “Agri Buzz” is a man-made project and, therefore, there may be mistakes and limitations. The ideas put up may be different. The terms and names may be different. However, the sincere effort was to give the best. Advanced techniques like sensor technology used in the future for measuring the quality of the product.

This project will be helpful for farmers to know more about market information; will act as a unique interface of schemes and compensation. Through this, they will be always in touch with new techniques and trends in farming. But a new user may feel some kind of stress about its use. Overall the system is faster, secure, and comfortable.

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