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Agribuzz-Agriculture Management System

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Abstract: ***Farming is the Prime Occupation in India in spite of this; today the people involved in farming belong to the lower class and are in deep poverty. The Advanced techniques and the Automated machines which are leading the world to new heights are been lagging when it is concerned to Farming, either the lack of awareness of the advanced facilities or the unavailability leads to poverty in Farming. Even after all the hard work and the production done by the farmers, in today's market, the farmers are cheated by the Agents, leading to poverty. Agro-marketing would make all things automatic which makes it easier to serve as the best solution to all the problems.***
Agribuzz farming will serve as a way for the farmers to sell their products across the country just with some basic knowledge about how to use the website. The site will guide the farmers in all aspects, including the current market rate of different products, the total sale and the earned profit for the sold products, access to the new farming techniques through learning, and a centralized approach to view different governments' agriculture schemes including the compensation schemes for farming. Getting availed of the required information related to the markets and different products can be made possible through the SMS facility provided by the system.
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 not providing a solution for the new Farm Acts 2020. Existing system doesn't have an online sales option. In this existing system farmer has to sell the nearest agents. 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 and 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 labourers 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. PROBLEM STATEMENT

The need to build this website was the technological development of almost everything around us. The user needs all the tasks to be accomplished in an effective and relaxed manner. In such a time, there was a desperate need to construct a website for the convenience of the user. Also, this website will aim to solve the tiresome task of managing the crowd easy, without confusion, during ticket booking times. Cloud Technology will help to add flexibility and scalability.

V. PROJECT MODULES

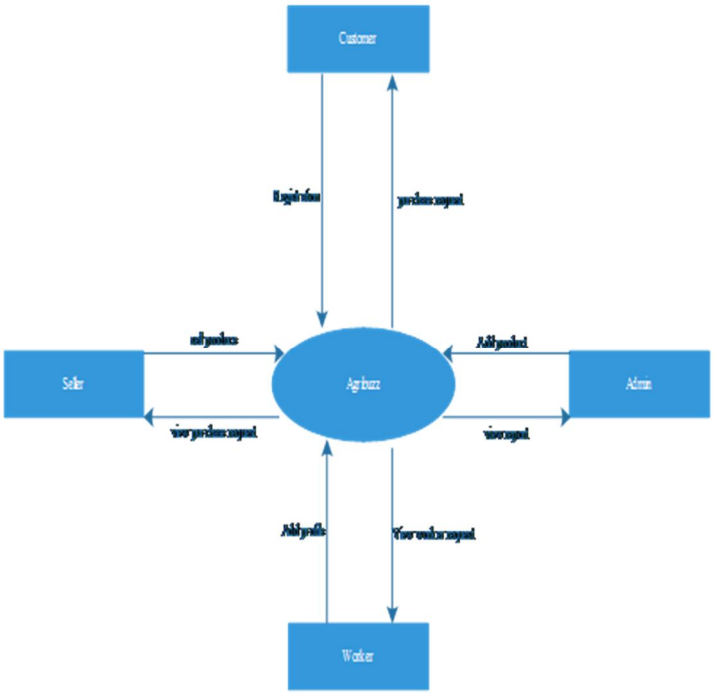


Fig.1.Data Flow Diagram

A. Login Module

In this module, the customer, seller, worker, and admin can log in to the system by entering the login id and password. The system opens the main account page after the login.

B. Customer Module

The customer can register on the website by entering profile details. The customer can purchase products that are uploaded by the admin. They can also send purchase requests for purchasing farm products that are uploaded by farmers.

C. Seller Module

The farmers are the sellers where they can sell their productions online. The system will display farm produces on the main page of the website.

D. Worker Module

This module is for laborers where they can register by entering their profile and experience details. The farmers can hire farm laborers in this module.

E. Dashboard Module

The dashboard module is for administrators and employees. In the dashboard module, the admin has complete settings of the website. Employees can manage all kinds of records.

F. Article Module

In the article module, employees or admin can post news and blogs. This article module is helpful for farmers. The farmers can view the article by browsing the article menu.

G. Category Module

In this module, the administrator can create different types of categories. The system has three types of categories: i.e. Farm Produce, Agricultural Machinery & Tools, and Article types.

H. Location Module

This is the master page where the admin can add country, state, city.

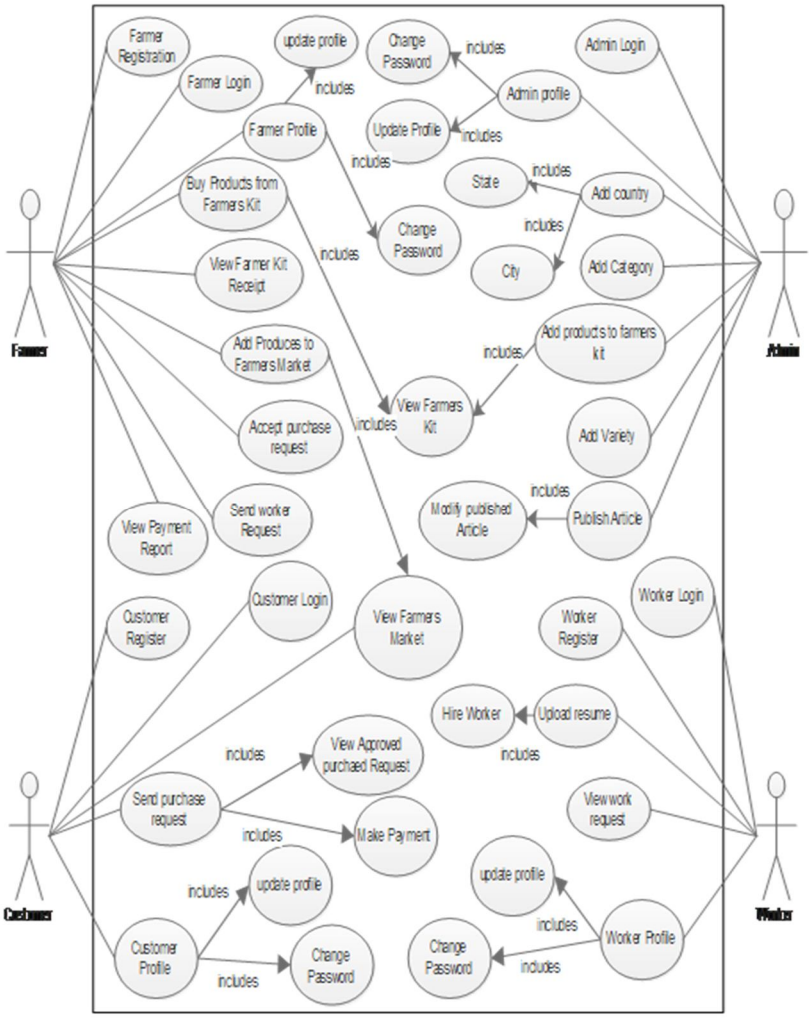
I. Products Module

This website sells two kinds of products. Admin or employees can sell products directly and it has another option where farmers can sell their productions online.

J. Billing Report

The system generates billing after purchasing the product. The system calculates total costs automatically.

VI. PROJECT DESIGN



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VII. 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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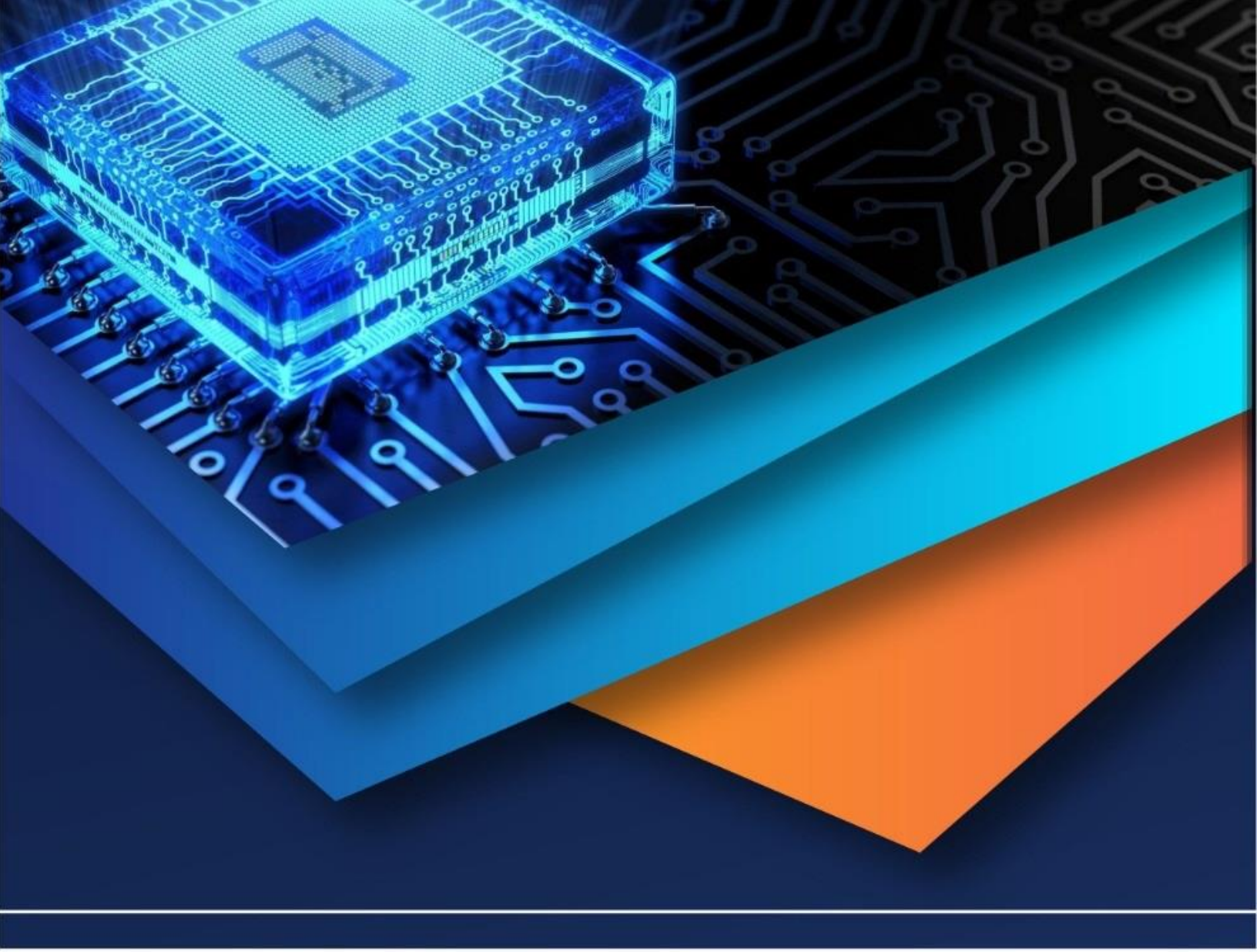

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