Agriculture Development and Management System

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Abstract: The main objective of developing application is to help farmers by providing all kinds agriculture related information in the website. "Agriculture Development and Management System" is farmer management website application which helps farmers to give best-practice farming processes. It helps farmers to improve their productivity and profitability. It enables farmers to sell their productions through online and farmers can purchase tools and seeds directly from seller. Farmers can view labours profile and they can hire labours.

INTRODUCTION

- The farmers can sell their productions through online, and the buyer can purchase the seeds and products through online. Buyer can send purchase request to check the quality of the product.
- After collecting all the production from the customers, it should be sold to the sellers. Thus, the product should be shipped by the company. This module covers these entries and the charge details of shipping also be entered. The Payments will be received from the seller once the product delivered to the seller.
- There are 4 types of users Customer, farmers, sellers, and administrator. The login id and password must require login the system.
- The article and blogs section helps farmers to improve their productivity and profitability.
- Administrator can view and print all kinds' of reports.

EXISTING SYSTEM

In existing system, farmer only saw the information related to the crop, insecticides, financial sector etc. It provides detailed information regarding the crops through online. In earlier days farmers used to sell the products to the customer manually, which was time consuming and delay in delivering the products. It was difficult to manage the task like purchasing the tools and seeds required for farming and also difficult to maintain the reports manually.

CATEGORY

RDBMS (Relational Database Management System)

MODULE SPECIFICATION

- Login module:
  In this module customer, seller, admin can login to the system by entering login id and password. The system opens main account page after the login.
- Customer module:
  The customer can register to the website by entering profile details. The customer can purchase products which is uploaded by administrator. Even they can send purchase request for bulk products which is uploaded by farmers. After quality test the customer can approve or reject the purchase request.
- Seller module:
  The farmers are the sellers where they can sell their productions through online. The system will display selling products in the main page of the website.
- Worker module:
  This module is for workers can register by entering their profile and experience details. The farmers can hire workers in this module.
- Dashboard module:
  Dashboard module is for administrator and employees. In the dashboard module admin has complete settings of the website. Employees can manage all kinds of records.
- Article module:
  In the article module employees or admin can post news and blogs. In the article form it has option to upload images and videos. This article module

helpful for farmers. The farmers can view the article by entering article menu.

- Category module:
  In this module the administrator can create different types of categories. The system has five types of categories. i.e; Selling product, Produce, Product, and Article types.
- Location module:
  This is the master page where admin can add country, state, city.
- Products module:

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

- Billing report:
  The system generates billing after purchasing the product. The system calculates total cost automatically. In the billing report it displays customer contact details, billing details, and purchased product information.

SYSTEM ARCHITECTURE
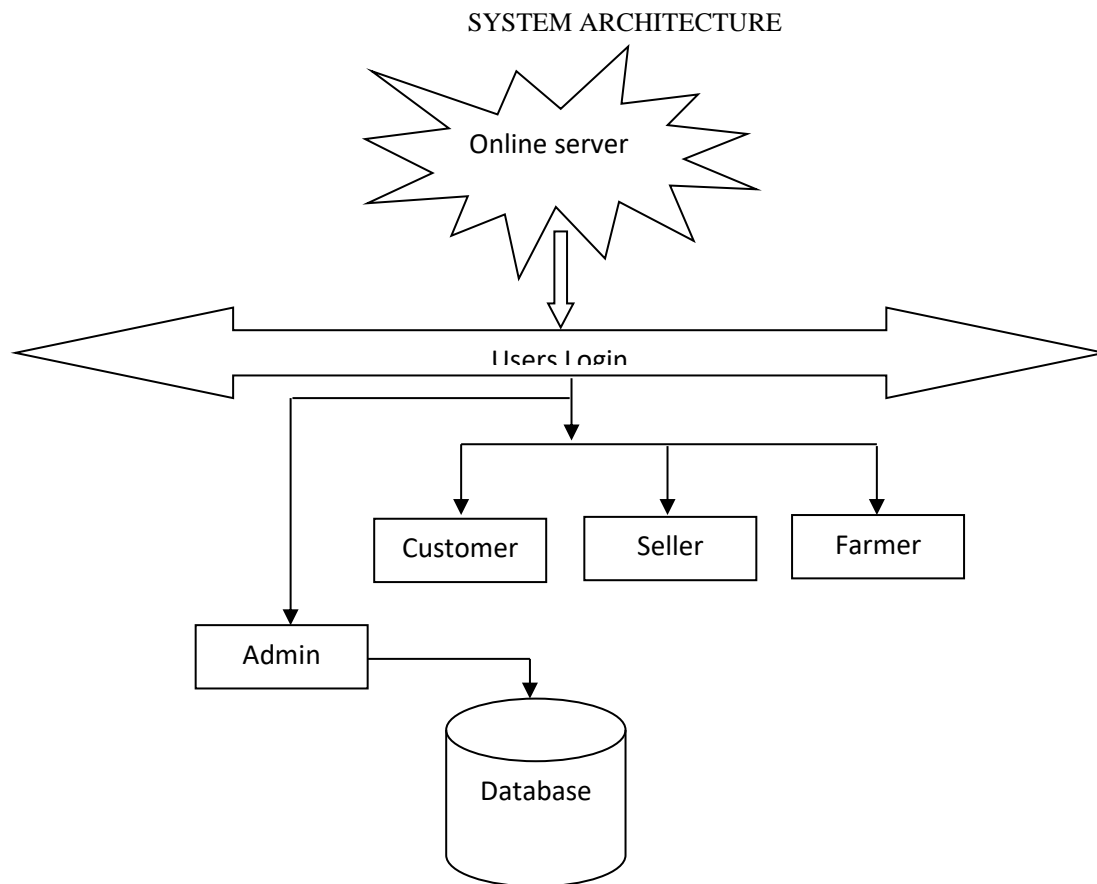
INNOVATIVE AND USEFULNESS

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- The article and blogs sections help farmers to improve their productivity and profitability.
- Administrator can view and print all kind reports.

FUTURE SCOPE

- In future we can make android or iphone based application for this project.
- In future we can add SMS notification instead of Email alerts.
- We can reply to the users using a automatic Chabot.

CONCLUSION

"Agriculture Development and Management System" this web application project works apache server. PHP used as front end and MySql used as backend in the project. To overcome the present weakness, we are developing this web application and also may help for the future implementation.

REFERENCE

[1] Agricultural Products in India http://www. agricultural products india. com/agro/ introduction.Html

[2] Sanjeevakumar M. Hatture, Susen P Naik, "Agro-Guardian: A Framework For Smart Agriculture", *2019 1st International Conference on Advances in Information Technology (ICAIT)*, pp.109-115, 2019.

[3] https://ebooks.lpude.in/management/mba/term_3/DCAP204_MANAGING_DATABASE_DCAP402_DATABASE_MANAGEMENT_SYSTEMS.pdf

[4] https://www.agriculturejournal.org/

[5] https://www.springer.com/journal/40003

[6] https://epubs.icar.org.in/

[7] https://wp.stolaf.edu/naturallands/research-papers/agriculture-research-papers/

[8] https://www.mdpi.com/journal/agriculture

[9] https://www.sciencedirect.com/journal/journal-of-agriculture-and-food-research

[10] https://afribary.com/works/fields/agriculture