

PIP104 PROFESSIONAL PRACTICE-II

VIVA-VOCE

E-FARMER

Batch Number: CSE-G122

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Introduction

The Agricultural web portal to override the problems prevailing in the practicing manual system. This web-application is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

There are Three entities who will have the access to the system.

- Admin
- Customers
- Buyers



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Literature Review

The Role of Online Platforms in Agricultural Markets. - Marelli, L., & Whittaker, G. (2018).

This paper highlights the potential of online platforms to revolutionize the process of selling farms through bidding mechanisms. This innovative approach introduces a level of transparency and competitiveness previously unseen in traditional farm transactions, leading to fair market values and empowering both sellers and buyers.

An Analysis of Online Auctions in the Agricultural Sector. - Marelli, L., & Whittaker, G. (2018).

This paper emphasizes that the adoption of online auction platforms in the agricultural sector holds great promise for revolutionizing the way agricultural products and land are traded. These platforms contribute to reducing transaction costs, widening market access, and promoting equitable trade practices.

Online B2B auction system for agricultural products. -Nan, Y., & Ding, J. (2017).

This article highlights the potential of online stages to revolutionize the cultivate deals handle through offering components. This imaginative approach brings straightforwardness and competitiveness not already seen in conventional rural businesses, coming about in reasonable showcase values and strengthening of both dealers and buyers.



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Food and Agriculture Organization of the United Nations (FAO)- "Agriculture Strategy Guide".

This direction recognizes the significance of adjusting e-agriculture methodologies to the one-of-a-kind needs and settings of person districts and nations. It energizes flexibility and advancement within the appropriation of computerized arrangements, reflecting FAO's commitment to advancing maintainable and context-specific rural hones.

E-Agriculture in India: An Exploratory Study. - Kaur, J. and Kaur, M. (2020).

Arrangements in India. In the event that utilized viably, these innovations can act as catalysts for rustic advancement, destitution diminishment and nourishment security. Creators and work emphasize the significance This paper. emphasizes the require for proceeded endeavours to advance and create e-agriculture of key arrangement and venture in advanced foundation to guarantee that the benefits of e-agriculture reach all corners of the nation, particularly in farther and underserved regions.



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Research Gaps Identified

Manual forms are known to be much more labour seriously, time devouring, exact and proficient than robotized frameworks. Thus, the following are a few drawbacks in the previous

1. Inaccurate
2. Inefficient
3. A ton of paperwork
4. Unfriendly surroundings
5. It's hard to maintain ancient records
6. More manpower.
7. Uses a significant amount of payload.
8. Higher officials have no direct involvement.



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Proposed Methodology

Electronic Agrarian Administration Framework (EAMS) may be a arranged framework. This web-based program is outlined to supplant an error-prone and questionable manual cultivate information framework. Facilitated on Internet servers, the EAMS application can be gotten to from both computers and portable gadgets. The framework collects and forms data almost ranchers, agrarian items, buyers and providers, such as names, addresses, phone numbers and mail addresses

Data Collection Instrument

The device chosen for information collection could be a chat bar The reason of the Electronic Agribusiness Meet is to assemble data from different agriculturists and wholesalers of cultivate items. The arranged framework is called the Administration Framework (EAMS). This web-based application is implied to supplant the labourintensive and error-prone manual framework utilized to handle cultivate information.



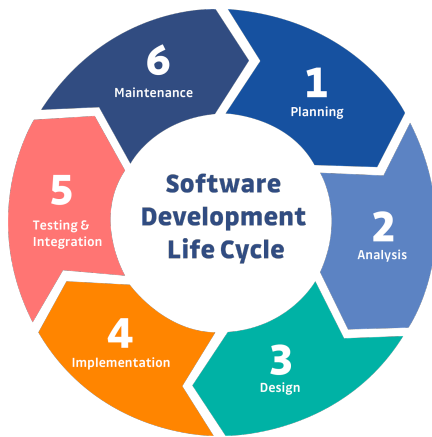
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Agile Model

Agile is a software development life cycle model and it will be used in developing the EAMS because of its speedy and elastic response to changes.



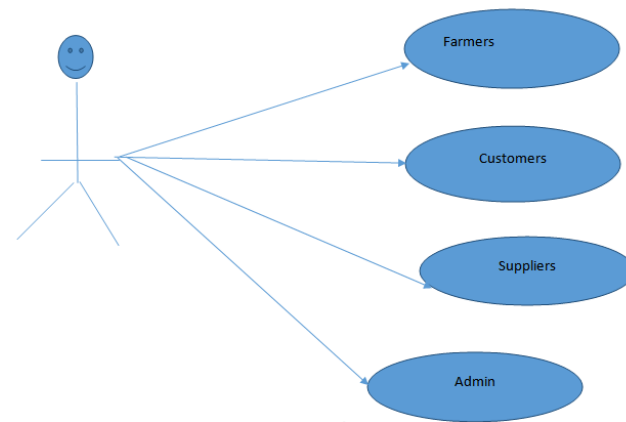
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Use Case Diagram

The use case diagram below illustrates the interaction between the proposed system and the users.



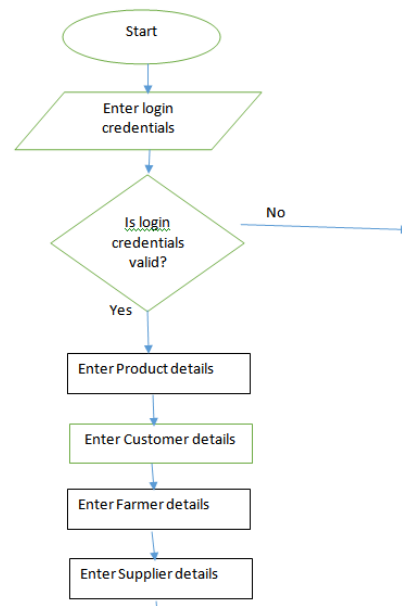
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Flow chart

Flow chart tool will be used in the design of the proposed EAMS. The below flowchart shows the logical and pictorial representation of the proposed system.



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Objectives

The aim of this project is to provide a technologically-based approach to augment transparency and strengthen the customer-farmer relationship. the capability for farmers to place orders for fertilizer and seeds. the flexibility to pay bills in any method, whether offline or online.

Workflow is continuously tracked via the site.

contacting farmers by phone and encrypted messaging.

Permit customers to ask or bid for the farm's produce.

Improving data security is essential, which emphasizes the necessity of putting strong security measures in place, especially when it comes to user authentication and authorization. The purpose of this strategic endeavor is to strengthen the protection of private data stored in the MySQL database so that it is not susceptible to hacking or other unwanted access.



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- **Non-functional requirements:** In essence, these are the quality requirements that the system must meet for the project to be completed on schedule. Each project has a different priority or level of implementation for these aspects. We also refer to them as non-behavioral needs. They deal with issues like:
 - * Portability
 - * Security
 - * Maintainability
 - * Reliability
 - * Scalability
 - * Performance
 - * Reusability
 - * Flexibility



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System Design & Implementation

Hardware Requirements

Processor - I3/Intel Processor Hard Drive - 160 GB

Keyboard - Standard Windows Keyboard

Mouse - Two or Three Button Mouse

RAM - 8 GB

Software requirements

Operating system: Windows 7/8/10

Server-side scripting: HTML, CSS, Bootstrap and JS

Programming language: Java Server implementation:

Apache Tomcat Database: MySQL.

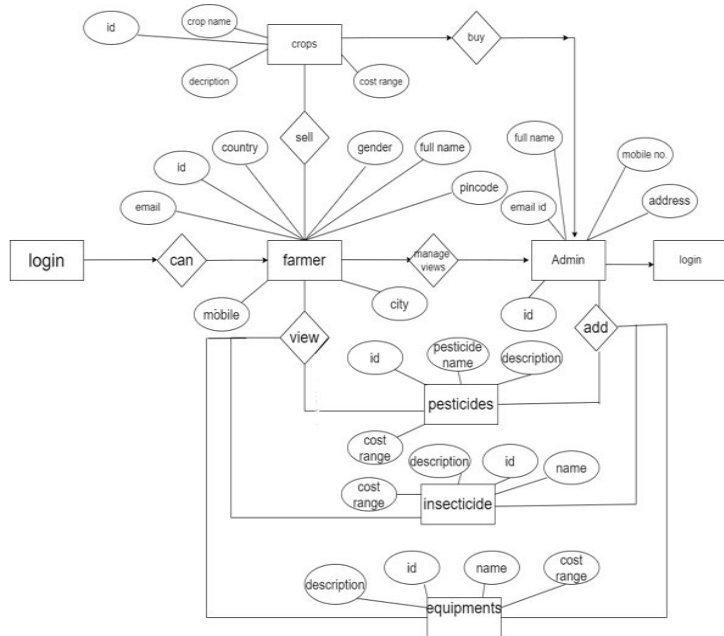


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ER SCHEMA

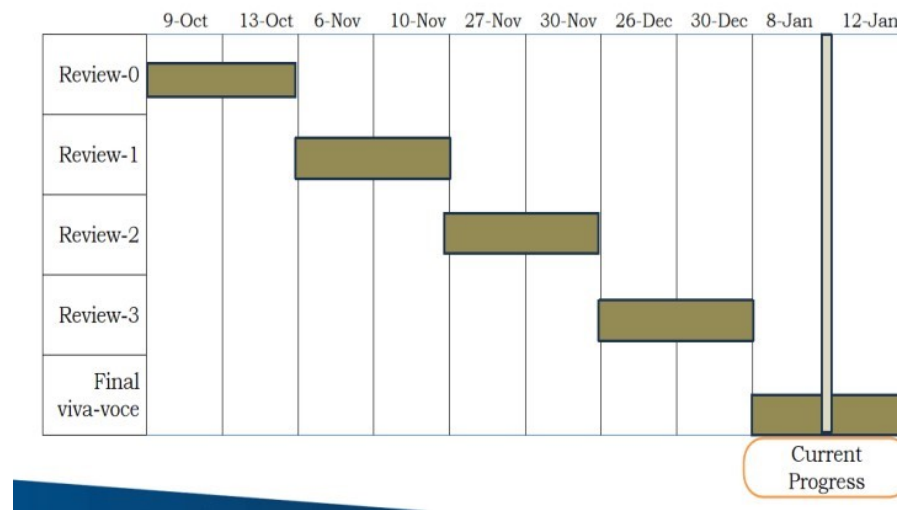


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Timeline of Project



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Outcomes

1. Marketplace for Agricultural Products:

Connect farmers with buyers, retailers, or wholesalers. Allow farmers to showcase and sell their produce online.

2. Crop Management Tools:

Provide tools for farmers to manage their crops efficiently.

Offer planting calendars, weather forecasts, and pest management advice.

3. Knowledge Hub:

Include a resource section with articles, guides, and tutorials for farmers.

Facilitate knowledge sharing among the farming community.

4. Online Farming Communities:

Create forums or discussion boards for farmers to share experiences and ask questions.

Foster a sense of community among farmers.

5. Supply Chain Management:

Streamline the supply chain by connecting farmers with logistics and transportation services.

Ensure efficient delivery of agricultural products to the market.



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Conclusion

The goal of this project was to create a web application that allows users to buy products from farmers. Through this project, we gained useful knowledge and practical experience on various topics including creating web pages using JSP servlets, Bootstrap, CSS and HTML databases using MySQL. Every part of the system is secure. In addition, the project increased our awareness of the software development life cycle and its development phases.

Our initiative is only a modest attempt to fulfil their project management needs. A lot of user-friendly coding has also been implemented. This package seems to be effective enough to meet all the requirements of school. The purpose of software design is to provide managers with a framework within which they can make decisions.

An explanation of the project's history, setting, and relationship to previous work in the field.



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DOI: <http://dx.doi.org/10.21172/1.133.0> eISSN:2278-621.
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