

An Efficacious E-Portal for Rancher to Buy Seeds and Humus

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Abstract: Nowadays agricultural development and agricultural productivity has been increased with many updates in traditional agricultural practices. There are many technologies were arisen to increase farming practices. But they could not bereceiving the entire profits for the products as there is an involvement of third-person for buying seeds and fertilizers. These are the major problems identified in the existing system. In order to overcome these issues our paper is to develop a web portal for rancher to buy seeds and fertilizers at optimal price by themselves by eradicating the middleman. This portal also provide the details of seeds from all over Tamil Nadu by listing the seed details with prices in table format by scrapping the web elements from existing web portal. This site also developed for the consumers to bid/ask the seeds directly from farmers.

Keywords— Traditional, Rancher, Eradicating, Middleman, Optimal price

I. INTRODUCTION

Agriculture is known as skill of cultivating plant or crops. A large population in our nation majorly depends on farming to satisfy their daily needs. Our Indian farming system has been increased with many new technologies to produce maximum farm products and globally India offered with the second position.

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This portal is developed to view the details of seeds from several part of the area so that farmers can know the details of seeds with their cost at this site instead of searching in other websites. We knew that farmers are built as the backbone of India. They are spending larger amount of cost for producing the products at every season but there is no benefit for them at the period of farm yielding. So for these issues there are many technologies were emerged for farmers and also there are numerous web application and mobile application were available in the market. Our nation is an agriculture based country with rapid growth. This paper is to suggest a solution for a problem such as some web pages are inefficient to use and they could not be able to access without any third person. The portal can be accessed at their dependable languages. This was developed in PHP and enable this system to combine the scrapped web elements from the existing web sites. Here they could be able to buy the fertilizers at optimal price.

II. LITERATURE SURVEY

There are various surveys and also feedbacks with technologies are reviewed from existing papers and portal that are listed in the literature survey.

1. The Farmer's Intel paper describes that this application is to know more about market information which will act as unique interface of schemes and compensation for farmers which was given by Mohan Kumara V et al [1].
2. Mobile Applications Used for Farmers Gyanappa A. Walikaret all suggests an Android based solution which will be helpful to give solution for Indian agricultural management to improve their crop yield. This is a beneficial application to the Indian farmers as it provides the key problems of getting the market updates [2].
3. AGRONOMY-An Android Application Regarding Farmer Utility by Mr. Khairnar Ghanshyam et al proposed that the availability of agricultural information directly in a farmer's hand without him being dependent on

neighbors or zamindars or even waiting for a SMS response from the mKisan portal like schemes, will allow the farmers to take better decisions at right time. This will not only promote greater productivity instead of that it will reduce stress and also instilling zeal to learn new technology which is essential in this era of Digital Revolution in order to improve a farmer's life. [3].

4. E-Agro Android Application (I F M S for sustainable development of farmers) by Shubham Sharma proposed that it will offer skill developing service to farmers about cultivation of crops, pricing, fertilizers, and disease feature method to be used etc. and even suggestions about prevailing techniques for farming, usage of bio- fertilizers, can obtain best crop cultivation in the recent history of the region etc. Their main aim is to bringing the modern agricultural techniques to the remote farmers [4].
5. E-Agriculture Information Management System by SumithaThankachan was proposed that this application has to reach farmers to know the information about crop growing and also to support promoting agricultural products.[5].6.Krishi Ville – Android based Solution for Indian Agriculture by ManavSinghal has been proposed that a mobile based application for farmers which would help for farming activities. They proposed an android based mobile application – Krishi Ville which would provide the updates of the different agricultural commodities, weather forecast updates, agricultural news updates. This application has been designed taking Indian farming in consideration [6].
7. E-FARMING by Sindhu M R et all proposed to guide the farmers in all the aspects, 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 e-learning[7].

III. EXISTING METHOD

In the Existing, there is only an option for crop cultivation, irrigation crop management, risk management, fertilizers for the crop. There they also provide the use of above features for every state and districts of India. But there is no option to sell the seeds in online directly to consumers by farmers without any third person. The user must login with necessary details. The major crops are used to list the seeds such as wheat, maize, Rice, pulses, jute, and sugarcane and they also describe the general information about the crops with their varieties. Seed dealers are involved to sell the crops collected from farmers to the consumers. Here the commission is

owned by the dealers from farmers so that farmer is not getting any benefit. They are not been aware of the schemes so the application was developed but not efficient foruse.

Disadvantages of Existing System

- This is not more efficient foruse.
- The dealers are involved between the farmers and customer in selling the crops so that the commission had to be pay forthem.
- This leads the farmers not to obtain any benefits.

IV. PROPOSEDSYSTEM

This proposed web portal “AN EFFICACIOUS E- PORTAL FOR RANCHER TO BUY SEEDSAND HUMUS” is developed to introduce the online auction system to bring direct communication between farmers and consumers wherein to eradicate the involvement of third person. Here the farmers can post and can sell their farm produced from their field on their own by choosing the convenient languages for farmers where we developed with options to translate the pages at languages like Tamil, English, Telugu. This web portal can overcome the problem identified in the existing system by improving the efficiency of accessingtheweb pages and direct interaction by farmer to consumer. In this process there are separate login page for farmer and customer/buyer can login as new user by adding them at first time or as existing user who had already created their account. Every farmer is provided with individual login id where their details are stored in database and also attached with corresponding bank for secured transaction. At first farmer can post their seeds with final estimated amount for the seed they want sell with timing for their session. Their bank details are given by them with their knowledge so that bank staff can monitor their details if anyone wants to buy to buy the seeds they must also enter their account details for online money transaction. This is the most secured and easiest mode of payment where nowadays online payment had becomeincreased.

SYSTEM ARCHITECTURE

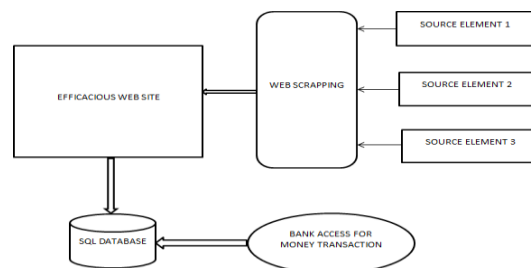


Fig 1.System Architecture

Advantages of this system:

- This portal is easier for accessing than the existing portal.
- Sometimes the existing portal fails to redirect to the requested page but this web site will overcome those issues by working effectively and efficiently.
- It can be accessed by any people where they are user friendly.
- It is developed to eradicate the involvement of third person.
- In the existing websites there many options available and each can take more time for searching the seed details for both farmers and consumers but these issues are overcome by the proposed web portal where it provides an effectual way to use by listing the seed details from all the existing web sites using scrapping technologies.
- This is more secured during the process of money transaction where the respective bank provided for monitoring the transaction process.
- Here farmers can buy their products at optimal prices.

V. SOFTWARE DESCRIPTION

FRONTEND

PHP (i.e. Hypertext preprocessor)

The Hypertext Preprocessor is developed for free distribution which is universally used for executing the server. It is easy to custom and also used to develop constant or dynamic web pages. This is a server-side scripting language where they can translate scripts at runtime. Server side scripts are inferred on the server while client side scripts are inferred by the client application. They are entrenched into a HTML code. There are number of widely held databases in PHP. This maintains a hefty number of key protocols such as POP3, IMAP, and LDAP. PHP comprised with upkeep for COM and COBRA, for making entire development is possibility for the first time.

ADVANTAGES OF PHP

There are some of the advantages in PHP which are listed and explained detail as follows:

Cross-Platform

PHP is, an application can be track on several different platforms. The most significant merits of PHP is that the

developer need not have to concern about the operating system in which the user is functioning on. PHP code can run appropriately and efficiently on all operating systems. Also, the PHP holding service providers can easily be found.

Ease of use

Any individuals solely who are new to programming can learn with effortlessly to use them within a petite span of time. Here the programming structure is quite simple and equivalent to the C programming language. So the user or a person who is accustomed with C can definitely create PHP website scripts.

Speed

A very vibrant side of webpage or web portal development is its speed. On taking into an account this is the very important fact; some individuals still scrap with the test of web data speed. Many individuals were appreciating the websites that are loading quite faster. Moreover, individuals usually like swift loading web sites related to slower loading ones.

Open source and Powerful library support

Another benefit of using the hypertext Preprocessor is it is established and sustained by a cluster of PHP originators, this relief in composing a support community, extensive extension library. PHP also has an enormous pool functional module and a scarce of the modules accessible in PHP comprises Graphics and PDF among others.

Stable and Secure

PHP has been existence for around twenty-two years. Over this era, several designers have driven on the application to enrich the use of the application. Lots of bugs are searched over the years and therefore the group of developers is quickly fixes the bugs. Based on this, the programming language is currently very secure.

CHARACTERISTICS OF PHP

- Simplicity
- Efficiency
- Security
- Flexibility
- Familiarity

BACK END

MYSQL_DATABASE

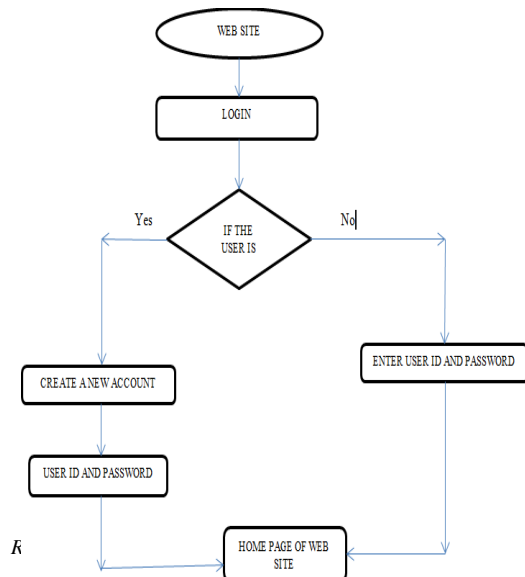
MySQL is the world's most general and open source database. With its sustained enactment, reliability and ease-of-use, this database has become the leading database choice for web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, Yahoo! and many more. A database is a well- organized pool of data. It may be anything from a modest shopping list to a portrait gallery or the massive extents of information in a commercial network. To enlarge, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

ADVANTAGES OF MYSQL_DATABASE

- DataSecurity
- On-Demand Scalability
- Highperformance
- Round-the-ClockUptime
- Comprehensive Transactional Support
- Complete WorkflowControl
- Flexibility of Opensource

VI. DESIGN AND IMPLEMENTATION MODULES ADMIN

Admin is the initial process where the farmer or the consumer must be login to proceed with the next process. The user should enter the user id and assign password on their own. Those details are stored in MYSQL Database for next login. If the user is an existing user means they are need not to create another new account for them they can enter their user name and password.



HOMEPAGE

FORFARMER

Here the farmer can post the seeds after login process by providing the seed details, bank details of them, and estimated price of seed, variety and status of seed as open or closed. They can perform these functions on their own without any third person. This workflow is given in fig 3.

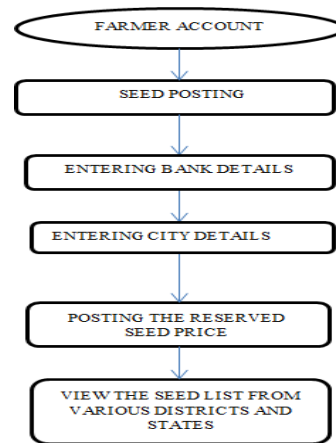


Fig 3.Function of Farmer’s access

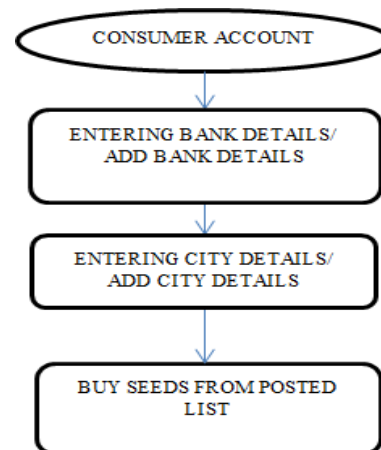


Fig 4.Function of Consumer’s Access

FOR CONSUMER

This is used for consumer to buy the seeds posted by farmers and they can have a secured online bidding system. If they are looking for particular type of seeds as sugarcane then they can search in the category list. If there is any item added for sugarcane then they can buy the seeds as per the reserved

price else they display that there is no such item.

AUCTIONITEMS

For the process of bidding the site is developed to add the seeds which farmer wants to post for auction/bidding process. There they have to enter details of their bank and city with seeds description by giving the seed variety. Farmers can also allocate time for bid process within the desired time consumer can buy the seeds else time gets aborted. If farmer wants to sell the seeds again they have to create a new session again.

SCRAPPING WEB ELEMENTS

The seed details from the entire states and districts of India can be updated in a table format to display the original seed price with their variety by scrapping the data from existing web sites. So that user can buy the products at optimal price.

VII. CONCLUSION

This proposed paper “AN EFFICACIOUS E-PORTAL FOR RANCHER TO BUY SEEDS AND HUMUS” had been developed with aim to overcome the issues stated in the existing system. It aims to develop with advantages as user-friendly and easier to access. Our proposed site will be more efficient and to improve the measure of increased performance. Usually farmers could not have any basic knowledge based on websites and applications. They don't have any idea about web applications, online auction, online seed posting etc. but proposed system can bring with easier access by them without any middleman. Sellers/Buyers can sell/buy seeds at optimal price without any middleman involving between farmer and consumer. Through this innovation farmers can yield their whole profit without giving commission to any other people involving for selling seeds. It will be more helpful for farmers to know about the information about current farming and so they can feel that this is more secured and beneficial web site.

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