IJCRT.ORG ISSN : 2320-2882

INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

E-FARMER

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ABSTRACT

Humankind has met its basic need for food production through agriculture. Decades ago, farmers mostly grew food for their consumption or sale with others in the same village or neighborhood. They were mostly independent. However, in the present era, the manufacturing environment is changing significantly from self-sufficiency to commercialization. Scientific advances in crops, the use of fertilizers, pesticides, pesticides, and mechanization of agriculture have resulted in a significant increase in agricultural production and thus an increase in commodities and commodity surpluses. Advanced production is accompanied by increased urbanization, changes in incomes, consumer lifestyles and eating habits, and strengthening ties with external markets. Consumers today are not limited to rural areas where food is produced. In addition, as the demand for processed food or semi-finished products increases, the cost of agricultural products is required to rise. These changes require food commodities to move from producers to consumers in the form of value-added products. As one of the most important fields for human endurance. Farmers are people who support agriculture. Agriculture has proven disadvantageous to small farmers as there are agents who earn significantly more than farmers.

Agriculture is the backbone of India, saying this, many of the agriculturists face so many problems in the agriculture that includes improper value for the products they produce and there are no proper discussion platforms where they could discuss or clarify their doubts regarding the agriculture. Thus here a new method is tried to find a solution to make the farmers to sell their products and also to discuss the issues. An auction website with all the other kinds of features such as a chat room and discussion forum would satisfy the farmer needs. Unlike the normal website; this auction model website is hosted in the Amazon elastic cloud compute server which could be a reliable environment for this kind of system [1]. The cloud servers are not only reliable but also provide so many advantages such as scalability and cost effectiveness [6].There are many applications developed and hosted in the Amazon web services [2-3] English Auction

model is of the forward auction type where a single item is considered for sale [4-5]. Usually here, the bidding moves from low price to progressively high price. The auction is closed when higher bid for the item is made. In this model, the seller sets a margin price. No item is sold below the margin price. The auction is aborted if there is a bid lesser than the margin price. The Dutch Auction is an auction model where the share price of the bidding item lowered to a level where there are enough bids to

sell all the shares. Vickery Auction was invented by the Canadian Nobel laureate economist William Vickrey. Here the auction is carried out such a way that the buyer or seller pays the second best price for the bidding item. This auction serves the potential buyer to offer a value to the item in his or her own judgment. Next auction type which resembles gambling is the Reserve auction. In is auction type, many sellers offer their items and compete for the bidding. In this model the buyer can accept any bid, by paying for every bid he is placing or can reject all the items. In this model, there is a change for the buyer to lose money or will not get anything back in return. The auctioneer will make money by offering of bids and collecting the amount for the item bided. In First sealed price auction model, the bidder can bid only once and the bidder who bids the highest price will win. This model is different from the English model in such way that, here the bids are closed and this system is open- bidding type.

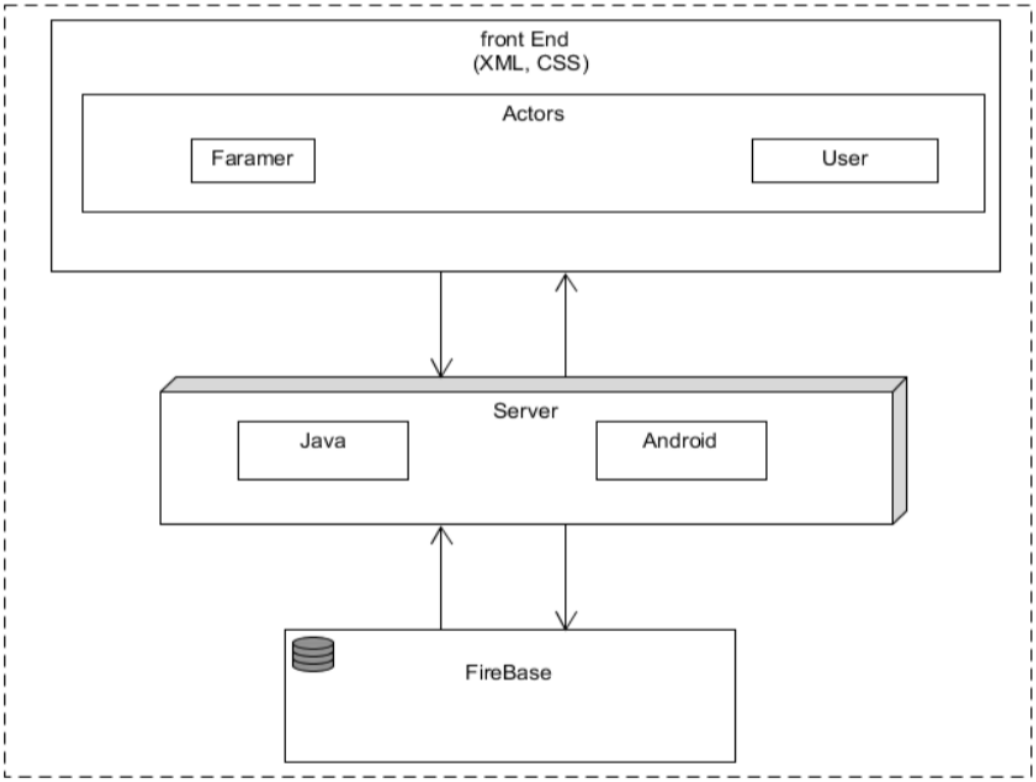
LITERATURE SURVEY

In a comparative study of different algorithms was performed to determine which is the best predictor of crop yield for Precision Agriculture. All algorithms are set for testing in a set of soybean crops collected within a few years. The comparison algorithms used in this paper are the Random Forest, Vector Support Machine, Bayes, Bagging, and Decision Tree. In, the problem among Indian farmers regarding their choice of the best yield based on the quality of their soil is solved. The recommendation system is developed using various classification algorithms. The system works with the GUI. In, the BRAC University developed an automated farming guessing system. Developed on the Android Platform and recommends to farmers the best crops according to their geographical location even before they start the farming process. The context of a highly recommended yield depends on the Performance Path parameter. Aman Bafna developed a system that uses a farm location to predict the weather in that area using the Weather API. Along with soil moisture sensors, the current climate is also used to draw up an irrigation plan as during the rainy season a very small amount of outdoor irrigation is required. The program also suggests the use of soluble fertilizers in water to make the fertilization process automatic. features, mixed responses, soil characteristics, fertility requirements, climate forecasting, weed, and pest quantity, crop growth response, harvest yield, post-harvest analysis, and marketing assumptions. Accurate growers should find, analyze, and apply the information found in each step in the crop system. A.G. Abishek & et al., it has been suggested that with the use of the web and mobile technology, agricultural products grown by farmers can be marketed directly to retailers or consumers without the addition of middlemen everywhere, and once sold, a group of retailers agricultural experts assess the quality. This ‘online market’ concept of the Department of Agricultural Marketing and Agricultural Business allows farmers to get the right share of their products and the freedom to sell the prices of farm products by removing traders. This allows farmers to quote an amount that will not cause

losses and that will be of great benefit to them. This will boost the local economy. The development of an online auction system has become a priority. The campus network-based e-auction program provides a trading platform for students and discusses the buy and sale process. Therefore, an online auction program should increase its service quality to attract students. The use of various fertilizers is also uncertain due to changes in seasonal climates and basic materials such as soil, water, and air. In this case, the yield rate decreases gradually. India is a nation where agriculture plays a major role. The prosperity of the farmers prospers the nation. Our work will therefore assist farmers in sowing the right seeds to the needs of the soil to increase national productivity future work is aimed at an advanced data set with a large number of attributes and uses yield predictions. All the work was based primarily on the goal of providing farmers with a viable practical farming assistant who can communicate with farmers. The app is designed to be very understandable to the farmer. Not only does it help farmers to get the best crop recommendations but it also helps them to feed their crops better, keep their crops growing and grow their shelf life, as well as help them find the best prices they can sell their crops for nearby markets. This research study introduced a mobile application for predicting agricultural production proposed by the agricultural sector. This serves as a mobile app for farmers to support the decision on the most important agricultural product currently in demand in the market. The development of an application for agricultural production forecasting systems is a solution for farmers to market their products without sacrificing quality and avoiding crop wastage. The application process has been assisted in monitoring the current technology-based farming in the rural areas of India and thus improve their livelihood opportunities. In general, a critical view indicates that global food production is sufficient to feed the global community, but sadly, hunger still exists and tens of thousands of people die of hunger and malnutrition each year worldwide. What makes matters worse is that economically developed countries dump waste at sea and some parts of the world are dying of chronic hunger. The question goes beyond how much the world produces but the right access to productive resources for people from the poorest economic sector. This issue requires the distribution of food to all. It is highly recommended that intervention policies should be initiated by the government to reduce the potential impact of middle-aged men who may be major capitalists in the food distribution system and thus address food insecurity and food insecurity.

PROPOSED METHOD

To develop an farmer bidding application that allows farmers and the customers contact each other directly and do the business. Farmers can choose their customers who quote more i.e. they can choose whom to sell their products on the basis of the price the customers are ready to pay. Farmers get to know the demand in the market of the products they are selling. This will help them to concentrate on the crops which is in high demand.



OBJECTIVES

Make farmers get the best price for their products. Eliminate middlemen so that the farmers get the total benefit. Farmers can choose their customers who quote more they can choose whom to sell their products on the basis of the price the customers are ready to pay. Farmers get to know the demand in the market of the products they are selling. This will
help them to concentrate on the crops which is in high demand. The Online Bidding Application helps the farmers meet the customers directly The winner of the bid and the seller of that product get an email as notification about the confirmation of the product.

METHODOLOGY

a. The idea is to develop an online bidding application that would help the farmers and the customers contact each other directly and do the business.
b. This would include a cloud platform that would store the data of the registered users (farmers and customers)
c. The cloud platform will be a live cloud (Platform as a Service).
d. The application will include membership module for loyal farmers (registered farmers) to participate in it.
e. The online forum will help the customers interact with each other.
f. Farmers get to know the actual demand in the market through the requests that customers post on the application.
g. This idea comes under recent trends in IT and hence would require MVC (Model View Controller) design pattern as the core technique to build it.

h. The application would help the farmers bid the price and the highest bidder (customer) will get away with the product.

OUTCOMES

There is no doubt that in any marketing there is a motive towards profit involved and at the same time the marketing is to be based on certain values, principles and philosophies such as offering just and fair prices to the farmers who toil hard to till. Bringing necessary reforms coupled with proper price discovery mechanism through regulated market system will help streamline and strengthen agricultural marketing. Through this web application, we can make sure it is profitable for both the farmers and consumers. Marketing of agriculture can be made effective if it is looked from the collective and integrative efforts from various quarters by addressing to farmers, middlemen, researchers and administrators. It is high time we brought out significant strategies in agricultural marketing with innovative and creative approaches. This application will be one such strategy that will encourage the farmers to continue farming and make sure they get the right fruit for the labor.

RESULTS AND DISCUSSIONS

An Online Bidding application deployed on for sales of agricultural products and deploys end to end live application feature. The project is completely related to the farmers and the customers. It would benefit both of them equally. Farmers will get the complete price of their hard work. Customers need to pay only the price of the product and not the intermediate charges which are applied due to the involvement of the middlemen. This application completely eliminates middlemen hence it's a direct communication platform between the farmers and the customers. This web application not only provides the highest price for the farmers but also it possess many additional features which serve the application as the most easy, reliable and user friendly application which would in-turn help the users who are new to this computer era. The discussion forum helps the farmers/users post as many questions as they want and get their solution instantaneously. Online discussion forum is provided for the new users who are unaware of how to use the application and also on how to provide order to the web clients.

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