ONLINE BIDDING APPLICATION FOR FARMERS TO INCREASE THE AGRICULTURAL PRODUCTIVITY

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INTRODUCTION

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.
OBJECTIVES

a. Make farmers get the best price for their products.

b. Eliminate middlemen so that the farmers get the total benefit.

c. 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.

d. 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.

e. The Online Bidding Application helps the farmers meet the customers directly

f. The winner of the bid and the seller of that product get an email as notification about the confirmation of the product.

g. Discussion forum is available for the buyers and sellers to discuss about the products.

h. Feedback forum is provided to the winner of the bid so that his feedback can help other buyers to decide for buying of the product from that particular seller.
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.

i. This application will be made available to anyone across the globe via accessing the URL
**DIAGRAMS**

Fig 1: Module design

Fig 2: Use Case Diagram for Account access
Fig 3: Use case diagram for product

Fig 4: Use case diagram for feedback and discussion forum
RESULT AND CONCLUSION

An Online Bidding application deployed on Cloud Platform as a Service (PaaS) 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. In addition to all these facilities, cloud technology is used for hosting with which the website runs at the maximum speed without any interruption. Since cloud is used for hosting, there is an option where the website can load multiple users at the same time without any server lag.

FUTURE ENHANCEMENT

Future work of this project includes the integration of Big Data technologies and to scale the product to the maximum extends and also working towards integrating the logistics and payment gateway solutions.
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