

© 2020 IJSRCSEIT | Volume 6 | Issue 3 | ISSN : 2456-3307

DOI: https://doi.org/10.32628/IJSRCSEIT

Agriculture Auction

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ABSTRACT

This work is a web-based application that will help farmers to sell their products online to the highest bidder. The work will be an auction-based system where all the wholesalers and merchants will bid for the product that will be posted online by a particular farmer and the bid will start from a certain minimum value. The products will be sold to the merchant /wholesaler with the highest bid. Once the auction is complete the admin managing the website will send a confirmation email to the farmer as well the merchant and sharing the contact details of both with each other. Once the contact details are shared the transportation of the products will be discussed between the farmer and the merchant/wholesaler.

Keywords: Web-Based Application, Merchant, Wholesaler, Transportation

I. INTRODUCTION

The farmers after they are done with the packing of the products try to contact middle men who helps them in selling these products. They first ask the price to the farmer who tells the price at which he/she can trade at. The middle men aiming for his own profits negotiates with the farmer by offering them at a price at which they make enough profits and the farmers are left with no option but to accept the price. So, they will sell their products at low prices due to various reasons such as financial problems, unavailability of wholesale vendors or market etc. It is not possible for farmers who live in the remote areas to directly sell their produce to the customers so they take the help of these middlemen usually accepting a very little rate. The middle men sell it to other wholesalers and customers at a much different price making profit. Keeping in mind the various problem which a farmer faces ,they expect profit .Hence, the farmers are unable to make profits in-spite of all the hard work and patience to grow the stock, farmers play a major role in the

agriculture life cycle but still they fail to get profit due to their poor conditions.

II. Existing System

The existing system of trade that exists for a farmer are of majorly two types. They are as follows: The first way is that these farmers directly take their produce to their markets and try to sell them. This method is not very profitable for the farmers as they will have to spend more money on transportation and other miscellaneous expenses that are required to sell these products directly at the market.

The second way is that these farmers approach merchants or middlemen and sell their products to them at a very low price. [5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35] In either of the ways the farmer who is the backbone of our country are not been supported with enough credit and are rather feeling a burden by selling their crops/ goods at either a lower price or by paying extra money for

transportation and eventually not getting enough cash back after selling their products. Therefore we need to come up with a way to increase their profit.

III. Proposed System

The current website can be used by the admin, the farmer who is the seller and the buyer. The farmer first signs up with the website and later posts an auction mentioning the products available which will be later visible in the auction window in which different buyers and wholesalers will bid upon. The buyer with the highest bid will win the auction and the admin makes sure that both the parties are put together through a mean of contact and that the deal goes through. The admin will also be responsible for monitoring all the trades that will happen in this website. From the farmers end the necessary details to be submitted for the auction would be the name of the item, the starting price and the quantity he / she possesses. The buyer would have to bid for the price and the highest bidder will be able to purchase the said mentioned quantity from the farmer. The only drawback to this system would be that the farmers who have no connectivity to the internet or farmers who don't know to go about using/accessing the website portal will face it difficult to sell their produce online.

Advantages of proposed system:

- Auctions have no regional barriers ,hence a buyer from Kashmir can also purchase an item that is put online at an auction by a farmer who is placed in Kanyakumari.
- ❖ It increases the profit that a farmer would generally make.
- It reduces the risk of trusting middlemen/third parties.

- Everything happens live so time isn't a determinant.
- Flexibility of transactions.
- ❖ More reliability.
- ❖ Faster transactions.

IV. System Architecture

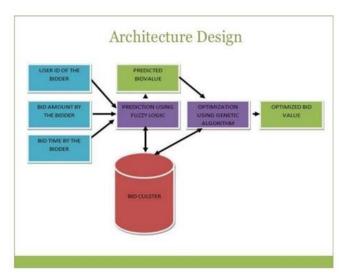


Fig 1.

The architecture comprises of the following components:

- ❖ Admin Access
- Login
- Managing all the transactions and bids
- Farmer Login
- ❖ Post an auction
- Update the price/quantity of an item
- ❖ Merchant Login
- ❖ Bid for an item
- **❖** Make payment
- ❖ Farmer Sign up
- * Register all the personal details
- Upload verification id.
- Merchant Sign up
- Register all the personal details
- Upload verification id.

V. Implementation

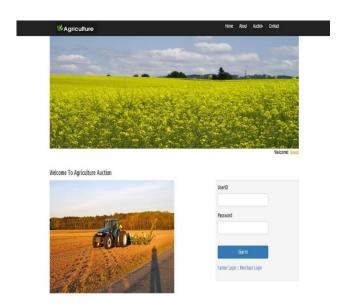


Fig 2. Output page of the login page for farmers

This is the output screen where the farmer will be able to login to his / her account and login and continue with the posting of an auction or updating the price of an existing item.

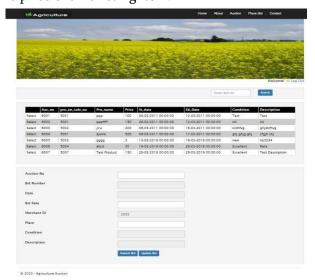


Fig 3. Output page after the merchant signs in.

Merchant logs in with his/her credentials to access their home page in which they can bid for an item that is put up for auction and also to make payment for their bidding.

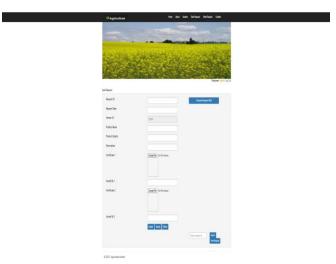


Fig 4. Output page where the farmer can initiate an item for an auction.

Farmer Logs in with his / her credentials and enters their home page where he/she can post an auction of an item that they possess or they can update the price or quantity of an existing item that is already up for auction.

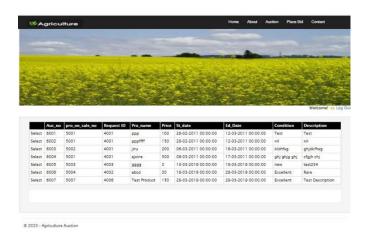


Fig 5. Output screens of all the present items to be auctioned.

This screen displays to the admin all the current items that are in the auction which are presently available to be sold.

VI. CONCLUSION

- ❖ The data can be saved in a database which can hold the data permanently.
- ❖ It eliminates the general frustration that would occur in a conventional auction setting.
- ❖ A person can literally buy and sell any farming related good through this system right from the rarest of rarest crops to the very common fruit and vegetables.
- This system is very beneficial to the farmers and brings about a difference in their profits.
- ❖ It helps the farmers to meet the customer directly and it totally helps in getting rid of all the middlemen.
- ❖ Farmers will get to know the products that are in demand in the market and they could farm accordingly.
- Discussion forum is available for the buyers and sellers to discuss about the products.

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Cite this article as:

Vikas B O, Stebin Sebastian, "Agriculture Auction", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN: 2456-3307, Volume 6, Issue 3, pp.723-729, May-June-2020.

Journal URL: http://ijsrcseit.com/CSEIT2063180