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E-Application for Farmers to Sell Their Food Products through E-Auction

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Abstract: An agriculture sector is backbone of country's economy. Most of the population of our country is directly involved in this sector. Farmers works hard but when it comes sell their crop products, they face issue due to intermediatory persons, dealers and some big selling companies. Such people get benefit from farmer's products. Such companies and dealers purchase products from farmers at low cost in mandi or market, bid and sell it to end user or imports in huge markets at very high cost. To get rid of intermediaries, E-Auction system we have introduced. Through this system farmers can have direct communication or can sell their crop products at their own price and set this price at bid. When bid takes place whosoever is bidder, wins the bid at max price that bidder will get notified through system and navigate to seller or farmer through GPS.

Keywords: E-Auction, GPS, Bidding System

I. INTRODUCTION

Basically, farmers belong to rural areas. Literacy rate of such areas is low as compare to metro-Politian or urban areas. As stated, farmers have lack of education of markets and biding system, they compromise their products at low cost. Some big selling companies, third party organizations and intermediatory person earns a lot from farmers products. On the other hand, farmers have taken huge amount as loan from banks and could not return on due date. They face crucial financial crisis, few farmers sacrifice's their lives. To avoid such things and help famers to make profit from their own products we introduced the system called "E-Application for farmers to sell their crop products through E-Auction".

Our system helps farmers to sell their products direct to bidder or whosever takes part into online bidding which is available on our portal. It is core part of our system where registered bidder takes part into bid whichever product he has registered. The system is completely transparent. The bidder who entre max price wins bid and navigate to the farmers location through GPS Navigation. Whatever the process happening on portal is visible to both sides that is to Farmer or Seller and to Bidder. Products available are genuinely tested before process to bid. Bid is also transparent. No hidden data should keep private on site or at server side.

1.1 Objectives

- In this digital era, Agriculture sector must be digitalized.
- The main objective of proposed web portal is to give justice to farmers products.
- To give freedom to the farmers to set expected price.
- To eliminate the involvement of intermediatory person. Big selling companies.
- Create transparent biding system so that farmers and buyers from different geographical areas can participate.
- To eliminate unnecessary storage of food crops by contacting the buyers manually in advance and choose the plans accordingly.

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• Use of GPS navigation system to navigate to the respective farmer or seller.

1.2 Need for Study

- Understand Consumer Problem
- Minimum the wastage of crop products



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- Transparent online biding process
- Testing for quality food crops
- Proper navigation system

II. METHODOLOGY

An online auction system is a system that holds online auctions for various products on a website and serves sellers and bidders accordingly. The system is designed to allow users to set up their products for auctions and to register and bid for various products available for bidding. The system also consists of products sorted by categories and by price. User's feedback is also provided to admin.

Online Auction or E-Auction consist of following features:

- User Login: User can register online and then access the system on authentication.
- Sort Products: User can sort products by category and price range.
- Auction products: User can set up products for auction by providing details and minimum bid.
- Delete Products: User can delete his own products.
- Admin Login: Admin can login to system and view products as well as feedback and even delete other user's products.
- Auction time: User can set auction time on posting product for selling, the winner is declared after time elapse.
- Email notification: Auction winner gets seller details; auction seller gets winner details on email.
- This Application uses Asp.net as a front-end and SQL as the back-end.

2.1 MySQL (PHPADMIN)

MySQL is database management tool. It is used for administration work for web-based applications. It is open source and easy to use. It operates on local machines and helps to manage database at Backend level. It handles database connection when data is entered on user interface as well as it helps to execute SQL queries directly.

In Our system we have created database called "Online_Auction". We have different tables available in database as per need. For farmers to upload and save details of products we have table called Product_details table, for bidder to upload details we have Bidder details table and so on.

III. MODELING AND ANALYSIS

3.1 Product Perspective

- E-Application for Farmers to Sell Their Food Products through E-Auction. is a very useful and timesaving program for those who like to organize their electronics products in their system.
- All you have to do is access it for free, install it and you are done.
- An online auction project is a system that holds online auctions for various products on a website and serves sellers and bidders accordingly.

3.2 Product Features

E-Application for Farmers to Sell Their Food Products Through E-Auction. provides users the following functions/features:

- Secure registration for all for all users including personal profile.
- To plan and develop the different strategies for selling and bidding an item.
- To notify the bidders of new bids made in the bids that they participate in.
- The user can see the bid history.
- This website has bid history.
- To generate reports for each completed bid in the auction system.

3.3 User Roles and Rights

• Seller Perspective: Seller can Process their electronics items and upload it to our portal. And simply accept end user's requests. If seller complete their maximum deals successfully then system can provide high ranking.

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- End User/Customer Perspective: End user like Customer can check products as well as electronics items on portals and send bidding request or accepted price to seller and admin & finally admin can accept their request and purchase that product. If end user can complete their 5 and above purchase deals successfully then system can provide discount to that end user.
- Admin Perspective: Admin can check items, seller and customers' requests on portal. Finally, admin can manage everything regarding auction system.
- Profiles: Add or Collect associations in profiles and assign an image to easily recognize it.
- Comprehensive Path Support: Support absolute paths, relative paths, UNC paths for shared information.

3.4 Operating Environment

E-Application for Farmers to Sell Their Food Products Through E-Auction. should run on Operating Systems: WinXP / Vista / Win7 / Win8. It is written in a windows depended language so unfortunately it won't run on a Linux-based system. Operating Platform: Android cellphone users, system users, and etc.

3.5 Design and Implementation Constraints

E-Application For Farmers to Sell Their Food Products Through E-Auction. Application is under the GNU General Public License Version 2, June 1991. Everyone, that does or is going to develop or use Marketplace, should agree and fully accept the terms of this kind of license.

3.6 User Documents

A list of user-related documents that will be released along with the app.

List the user documentation components (such as user manuals, reports, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.

3.7 Assumptions and Dependencies

It is assumed that answer data will be made available for the project in some phase of its completion. Until then, test data will be used for providing the demo for the presentations. It is assumed that the user is familiar with an internet browser and also familiar with handling the keyboard and mouse. Since the application is a web-based application there is a need for the internet browser. It will be assumed that the users will possess decent internet connectivity.

IV. RESULTS AND DISCUSSION

- Ready to Sell It is final stage where buyer has finished his biding with maximum price. When seller creates an
 account on website. They have to upload crop products with name of product, crop name, specification, location,
 biding start and end date along with location for navigation. After, successfully uploading product details all
 products are available to bid in specifically mentioned time zone.
- Buyer Buyer can be anyone a person, group of people, any organization but it cannot be any market authority or big selling company. Buyer has to register on system. All listed products are accessible to buyer. He can view details of product including biding details expected price, last bid amount and bid time. During biding bidder has to enter maximum price. The bidder who wins the bid is get redirected to navigate.

V. CONCLUSION

Through e-application farmers and end-users both can be benefited by absence of middle man. By adding online advance payment can increase the transparent of e-auction. The grade allocation to the quality of the products in online can be useful to classify the products with more accuracy.

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