

# Online Bidding Android Application

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**Abstract** — Bidding being the most upcoming customer opted strategy for any buying/selling transactions, the customized and most secured reliable and mobile facility for the bidding is the need of the day. The traditional bidding system fails to meet the upcoming user requirements and hence proves inadequate for secure and immediate transactions. In this internet and mobile era, the bidding also if made available through the same ,can provide user more facilitated to carry transaction anywhere, anytime as well as include large no. buyers for a product, by which the seller can find the most perfect buyer for his product, irrespective of the location Thus this application focuses on analyzing how to design a secure online bidding system on the android platform by which a user irrespective being a seller or a buyer ,would be enabled to find best transaction for himself.

**Keywords**— bidding, online, secure, android application.

## I. INTRODUCTION

IT revolution has touched its hands in every process and has made it automated .The task of purchasing /selling is done basically manually/automated .Automated is done via computer or via smart phones. The location of the user and the system available for any process automation, anywhere access to that system. Hence we came forward with the idea of implementing the bidding process enabled application in smart phones.

The Online Bidding Mobile Application aims at using mobile phones to do the task of purchasing, selling, etc. It is helpful since user can do all of these activities conveniently on the phone itself.

With this app customer can:

- 1) Browse all upcoming auctions and search for needed products buyer wants.
- 2) Seller can upload product images and descriptions through mobile phone.
- 3) Buyer can leave a bid on any item in advance.
- 4) Join the bidding competitive live in real time.

5) Delivery agent can also participate in process and earn money by providing shipping facility.

## II. LITURATURE SURVEY

We studied the following existing systems:

- Amazon
- eBay
- OLX

Limitations of existing system are:

1. There is no multiple transportation mode facility available to buyers.
2. Customer subscription charges are higher.
3. Existing systems restrict the seller's interaction with the customers.
4. In existing system transporter cannot interact easily with the system.

### Cons of Selling on existing system:

While there are some significant upsides to selling on marketplaces, there are also some drawbacks that need to be considered.

1. Marketplace Fees: Setting up shop on a marketplace can potentially supercharge your sales, but it also exposes you to another cost center - marketplace fees. Most marketplace fees are deducted as a percentage of each sale, and can vary

from site to site and even category to category. Before selling your products on a marketplace, you'll want to make sure you have a good sense of your margins and a firm understanding of the marketplace's fee structure. In highly commoditized, low margin categories, the numbers may just not add up. See fees for selling on Amazon, and fees for selling on eBay.

2. Marketplace Infrastructure: While the marketplace infrastructure has many advantages, it's important to remember that it can cut both ways. Marketplaces don't exist to help you, but to help themselves. They want the focus to be on the products, not the sellers. And that means they might restrict the degree to which you can brand your presence, communicate with customers, dictate what items you can and cannot sell, and so on. Additionally, there's nothing to stop marketplace owners - in the case of Amazon, Sears, and so on - from "going to school" on third party sellers, identifying popular products and stocking them themselves.

3. Keeping Inventory in Sync: A marketplace is essentially a second point of sale. And one that sometimes can't be configured to talk to your shopping cart. In effect, both draw down the same inventory, but don't sync with one another, making it challenging to understand your stock levels without lots of manual reconciliation. Fortunately, applications exist to help you aggregating orders from multiple sources and making sure your inventory stays in sync across all your stores.

Expected outcomes:

- 1) A real time system will be developed which will provide new bidding facility in market through mobile application.
- 2) By providing bidding facility products will be available at competitive price and seller can also be benefited if buyers bid higher if he want to buy that product.
- 3) By allowing delivery agents in process, buyer as well as delivery agent both will be benefited. Buyer will be benefited by paying competitive price and good service

from delivery agent & delivery agent can earn money by taking part in the process which is not easily possible in existing systems.

### III. SYSTEM DESCRIPTION

The proposed mobile application will provide platform for buyer and seller to buy and sell their products respectively using mobile application. The users use the mobile phone and do not need to access the web portal interface directly to buy and sell products.

There are basically following modules involved in system:

1. Registration: It consists of the registration section. It consists of name, email id, contact no, address. The user can be anyone-buyer, seller or delivery agent.
2. Seller: There is a product image which seller would upload of the product. He will decide the description, category, etc. He would also decide the initial amount.
3. Buyer: There would be many categories of product. Buyer would select the product and do bidding accordingly.
4. Delivery agent: The agent would decide from where the place of destination and source would be and the charges and the hours for the particular source to the destination.
5. Bidding module: This will consist of the session time and the bid amount. It will calculate and display remaining time for bidding and highest bid amount. After bidding time gets over will display the winner (highest bidder) for the product.

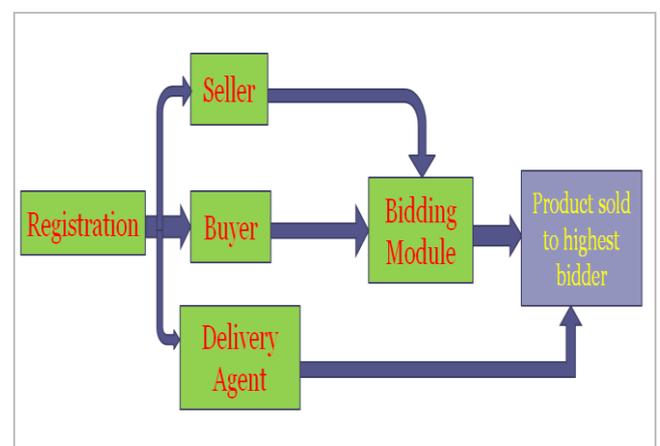


Fig 1: Interaction between modules

#### IV. ALGORITHM

For bidding process and smooth flow of online bidding particular algorithm must be used. In this system we will Penny auction model for bidding of product.

Steps:

- 1)  $t = t_{start}$  (set auction clock)
- 2)  $h = -1$  (Currently no winner in start)
- 3) price = x (start current offer at base value x)
- 4) while  $t > 0$   
 For all bidders  $B_i$  do  
 If  $i \neq h$  and  $hitBidButton(B_i)$  then  
 $h = i$  (make  $B_i$  the highest bidder)  
 price = price + inc (inc is the least amount should be increased by the bidder to bid higher)
- 5) sendItem( $B_h$ )

After the bidding time expires, product will be sold to the buyer who bid highest. Buyer will get multiple transport agent from which he can select any available transport mode according to his need and to be shipped by which transport agent. After the selection of transport agent a notification will be sent to the delivery agent that he is selected as transport agent. All payment modes can be made available for payment which are debit card, credit card, net banking, cash on delivery.

Also we will provide wallet facility in system, in which money can be credited to wallet before and then transaction can be done from application wallet. By using wallet facility transaction can be done faster as it won't be using bank's payment portal.

Product shipping status can also be known to buyer as delivery agent will update the location of the product time to time.

Fig.2 shows the functional working of the system. It shows how the system will work and also shows how the seller, buyer and delivery agent will module will be connected to each other.

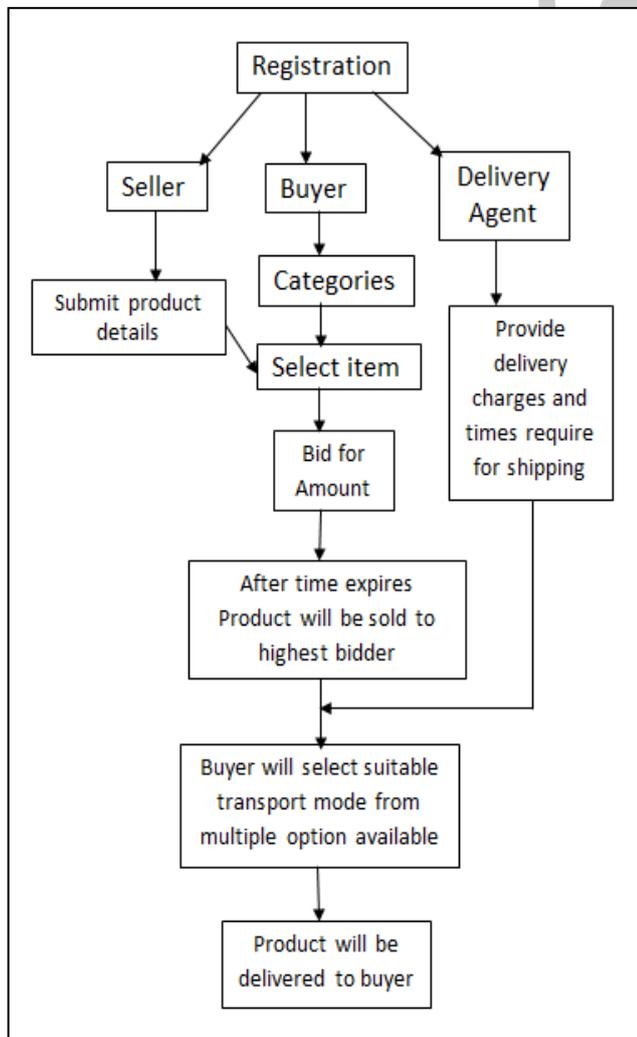


Fig 2. Functional working of system

#### V. CONCLUSION

The system uses Internet as a platform to provide a convenient platform for bidding, the bidding quickly transfer information. Android application is the best way to buy and sell product 'on the go' from anywhere anytime with. The bidding process thus becomes easier, smarter and cheaper to the customer. Thus a minimum transport cost is included and options are provided for multiple transport mode. One can access the application from anywhere in the world

### REFERENCES

- [1] Bo Hang, "Design and Implementation of Online Bidding and Tendering System", 2010 International Conference on computer and Communication Technologies in Agriculture Engineering.
- [2] [Chan, H.C.B.](#) ; Dept. of Comput., Hong Kong Polytech. Univ., China; [Ho, I.S.K.](#) ; [Lee, R.S.T.](#), "Design and implementation of a mobile agent-based auction system", [Communications, Computers and signal Processing, 2001. PACRIM. 2001 IEEE Pacific Rim Conference on](#) (Volume:2 )
- [3] <http://www.onlineprogrammingbooks.com/android/>
- [4] [http://www.iitg.ernet.in/gb/papers/auct\\_paper.pdf](http://www.iitg.ernet.in/gb/papers/auct_paper.pdf)
- [5] <http://stackoverflow.com/questions/22220603/online-bidding-application-implementation-doubts-using-android-and-c-net>
- [6] Xi Jianghua. ASP.NET2.0 Developing Detail Explain - using C # Best Practice Guide. Beijing: Electronic Industry Press, 2006.11
- [7] K. Scott Allen, James Avery and others, Hou or translation.ASP.NET Performance Advanced Programming. Beijing: Tsinghua University Press, 2003.4.
- [8] N. Augenblick. Consumer and producer behavior in the market for penny auctions: A theoretical and empirical analysis. working paper. available at <http://faculty.haas.berkeley.edu/ned/>, 2011.
- [9] Z. Wang and M. Xu. Learning and strategic sophistication in penny auctions on the internet, Feb. 2012.
- [10] Best Practices for Online Procurement Auctions, Diane H. Parente IGI Global Snippet, 2008 - [Business & Economics](#)

