

Application for Holding Auctions

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ABSTRACT

Android online auction system is designed to overcome all the drawbacks of the public auction system. These systems provide functionalities like people who are registered with this application can participate in Auction from anywhere they want. This system is secure because only authorized person can use this application. In this system user can easily add their product to auction and anyone can bid or participate to that auction. Here, system will also provide facilities like if any product is successfully sold in auction so system will automatically notify to the owner and bidder. The admin or the owner of the Product can see all the bidders list while the other users can only see the highest Bid on a Product Auctioned.

Keywords— *Online, secure, android application, Auctioneer, Bidder.*

I. INTRODUCTION

Now-a-Days, Android OS is very common in smartphones. It is the latest operating system. There are many android apps made by android developers i.e. more than 1L apps already developed. Some apps like BMI calculator, m-indicator, etc. and games like temple run, Dr. Driving, etc. So, we are also developing an application in android. It is an Auction app. We have chosen this topic as this live auction app is not available in the Google play market or in an IOS market. If user wants a product through auction so he may need to access the internet from his pc or computer for live auction site and then he can do bidding in that auction. So, this will not help the user from buying or selling products at anytime and anywhere. This app will be available to user at anytime and anywhere through smartphones. User will find the best way to buy and sell on the go in local area. Any user who wants to bid any products, he/she can bid it from this app. The main aim is to create such a website or application which has the functionality of listing Items sold by the auctioneer and therefore the listed items are going to be visible to bidders. The Highest bidder will have the chance to buy the product listed. The Auctioneer will post/list the product and interact with the highest bidder to sell the item. The bidder's profile will contain his bids, his purchased items etc. The bidder can place his bids on the portal, and register himself as an interested person. After the given time period, the product will get expired and the product will be allotted to the highest bidder. 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. The Objective is to develop a user-friendly auctioning site where any kind of product can be auctioned and provide value-added services to the bidders and the sellers. This is a well secured system and can be easily operated. This is fully dynamic. There is nothing static here. The main aim of this application is to make a good online system that provides a great alternative of bidding policy for general people that saves both time and money.

II. LITERATURE SURVEY

A. Surveying Existing System:-

Online auctions have become a pervasive transaction mechanism for e-commerce. Previously live auction app is already been developed by many android developers. It is kept secret among treasure seekers, it offers access to sometimes that have been in private collections for decades. Live auctioneers bring as an international audience of millions of hearts of bidding action in art, antique jeweller and collectibles auctions across the globe. By hosting thousands of auctions in real time via internet the site allows unprecedented access to remote sales, and savvy hider's can often land desired items t very desirable prices. All bidding takes place via the Secure Bidder Network (SBN), which keeps absentee bids for upcoming sales private until the item is opened on the day of sale. Live auction app limits the buyer/user to buy does not allows the buyer to buy electronic gadgets like mobile, phones, computers, etc.

B. Limitations of Existing System:-

- The user cannot view the item in person.
- No human interaction.
- If there are poor quality photographs then it's of no use..
- Existing systems restrict the seller's interaction with the customers.
- In existing system transporter cannot interact easily with the system.
- Traditional method is time consuming process
Date and time plays an important role, as they operate for few hours only.
- There is no separate module for sellers to upload their own Product in online auction system.
- Bid shielding
- Shill bidding

C. 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.

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.

III. PROPOSED SYSTEM

The project will provide functionalities like User Authentication, payment gateway and contact support. Various components like dashboard, seller, buyers, connect with us and logout are provided to user. There will also be two types of users i.e. sellers and buyers. In Sellers section, we will have details about different products for which the auctions are to be held. In Buyers section, details about various products will be showcased. It will have all the information about the buyer side. Contact section will have form to submit. Upon submission user will be contacted by the seller and explained the details about the product. Various modules of the project will also allow the use to upload the pictures for the purpose to display products. Sellers/Buyers profiles will be created to know all the details of the product.

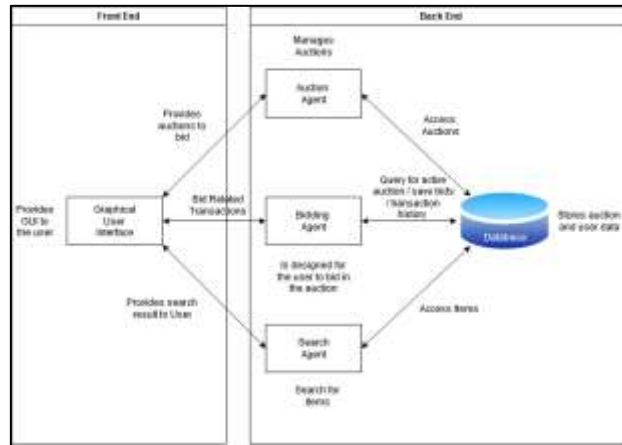


Fig: System Architecture

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. With this app you can ,Browse all upcoming auctions and search for particular mobile phones user wants Leave a bid on any item in advance in the bidding competitive live in real time. Leave a Bid or Bid live in mobile phones auction anywhere in the world. You will discover most handsets from auctioneers in all available for purchase using this Auction app. We can do remote access through mobile phones for live auction. We can get the information about the item for auction and can bid for that auction.

IV. METHODOLOGY

Implementation includes all those activities that take place to convert from the old system to the new. The old system consists of manual operations, which is operated in a very different manner from the proposed new system. A proper implementation is essential to provide a reliable system to meet the requirements of the organizations. An improper installation may affect the success of the computerized system. The development of this new system contains the following activities, which try to develop the application entire process keeping in the view of database integration approach.

A. Software System Configuration

- Operating System:** Android
- Front End:** Flutter
- Scripts:** XML JavaScript
- Database:** Firebase
- Tools:** Android SDK, Android Emulator, Visual Studio Code

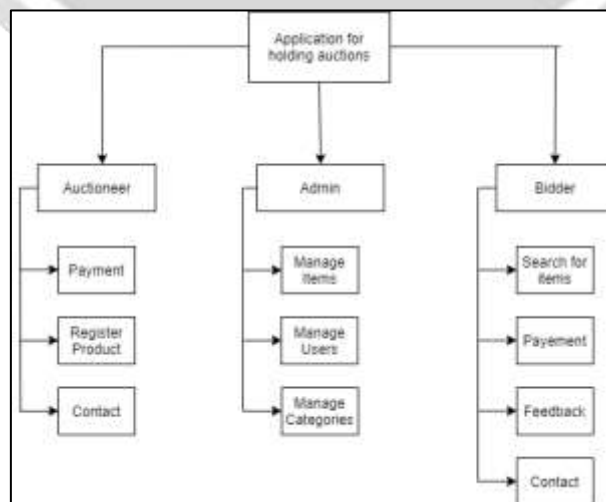


Fig: Information Architecture

B. System Models:

The system after careful analysis has been identified to be presented with the following modules:

1) Auctioneer Module

This module register a product also provides the complete information related to products for sale also provides bids and the bidder can bid for the products and can own them. Also handling functions of contact and payment.

2) Admin Module

This module will manage the verify users related attributes, items related attributes and attributes related categories also verify bids and resolves issues.

3) Bidder Module

In this module after successful login bidder will search items, visit items to buy, apply for bid also contact auctioneer for payments and will give feedback.

This system will generate team progress and also provides secure registration and profile management of the users. Administrators would authorize the product to auction, set auction dates & minimum auction amount for that product. Prior to each bid, the user's bank or credit account must be authenticated for available balance required for the bid. Users can select their interested fields for bidding and periodic Mail alerts must be sent in case an article in that field goes on auction. Complete Search/Site Map of the entire site for easy access.

C. Expected outcomes:

- A real time system will be developed which will provide new bidding facility in market through mobile application.
- 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.
- 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.

V. CONCLUSION

Android mobile auction app is the best way to buy and sell 'on the go' and in your local area. You can meet the buyers of mobile phones in your own locality. Our main objective to develop this app is to provide the user to buy and sell mobile handsets by bidding for the available mobile phones he/she may need through this application in a very easy way. The user can bid for the mobile handsets from anywhere and anytime at his/her price. It will also provide you with millions of buyers and sellers to connect to and all for free! The final stage is clearance and settlement. Our skilled project managers will arrange for successful buyers to pay for and then collect their lots. Once payment and collection has occurred, our accounts department settles the funds, less any fees and charges, direct to the client. The auction then opens for bidding; bids are accepted and processed; and lots are sold to the highest bidder. When the last lot closes, the auction event closes.

VI. FUTURE SCOPE

The developed system is flexible and changes can be made easily. The system is developed with an insight into the necessary modification that may be required in the future. Hence the system can be maintained successfully without much rework. One of the main future enhancements of our system is to enhance the system security by adding the option of Blacklisting defaulting bidders. There also can be option for rating sellers. Online payment settlement can be incorporated into the system.

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