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Implementing of Online Auction System

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***Abstract*- Online Auctions system is web application which will help the users to buy and sell the products. The system that holds the various products on a website and server sellers and bidders accordingly. And it is designed to allow users to set up their products for auctions and bidders to register and bid for different types of products that are available. This is a best method for buying and selling the products and services. And it helps the customers to buy and sell the products at reasonable price. There are some existing applications that allows users forbidding but the product is not available in your local area, you cannot do inspection of the product that you are going to buy. By online auction application user will be able to bid for product that is available in this local area.**

***Keywords*- Auction, bidders, online auction, bid.**

I.INTRODUCTION

The global reach of online auction system market places allows for the buyers and sellers to overcome geographical constraints and purchase products anytime and anywhere over the internet. Online auction is group which is based for the auction. It provide the customers with great advantage of low prices, greater product selection and greater efficiency compared to usual traditional offline markets. There are two categories of persons customers and vendor. Both have their own registration form. Vendor can sell his products on his website and customer will purchase it. Products will be given to the customers who put a high bid price on the product to purchase.

The customer will have a provision to chat with the vendor and consult with him about the details of the products, this chat will be confidential only between the vendor and the customer, ensuring the buyer's confidentiality. Administrators have the possibility to accept auctions proposed by users, to look at information about users and items and to make , modify and delete the items of auction (auctions regarding cars, books, music stuff etc.).

The system with 3-tier architecture: a relational database that store the information of items, users, auctions and categories of auction; an application server that cares about the business logic of the system and the presentation layer that consists of the web browser where users can interact with the system, the info base isn't directly accessed: for instance administrators can change the data stored within the database without connecting on to it but using their own browser.

1. Motivation of Project:

The security based flaws in the current auctioning system motivated us to take up this project. We see a scope of improvement in the current system as they are susceptible to a lot of fraudulent activities. The users need to be verified before being able to sell or buy products and that is what we have tried to achieve by the means of this project.

2. Brief Descriptions:

Virtual auctions on the internet. The sellers sells the merchandise to the one that bids the very best price .For sellers, online auctions open up new sales channels for brand spanking new products and offer buyers favorable purchasing conditions. The bidding for auction closes at the scheduled time. In the case of sales of multiple lots, the participants with the very best bids at the close of the auction are obligated to shop for the things. If nobody bids at or above the reserve price, the auction closes without a winner.

There are several different auction methods or types and one among the foremost popular methods is English auction system. This system has been designed to be highly-scalable and capable of supporting large numbers of bidders in a lively auction. Online Auctioning System has several other names like e-Auctions, electronic auction etc.

The requirement for online auction or online bidding are often more accurately specified by the client. It should be healthy and can be an honest practice when it's made more transparent as a matter of fact. Online Bidding has become more wide spread altogether kinds of industrial usage. It not only includes the merchandise or goods to be sold, it also has services which may be provided. Due to their low cost of product this expansion made the system to grow. Online bidding has become a typical method for procurement process.

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II. PROPOSED SYSTEM

Table 1. Software Specification.

Sr.no	Resources
1.	Pycharm
2.	HTML
3.	CSS
4.	Javascript

Table 2. Hardware Specifications.

Sr.No	Resource
1.	Pentium-||| Or higher
2.	64MB or higher
3.	80GB Or higher

3. TABLE OF CONTENT

IV. DETAILS OF DESIGN WORKING AND PROCESS

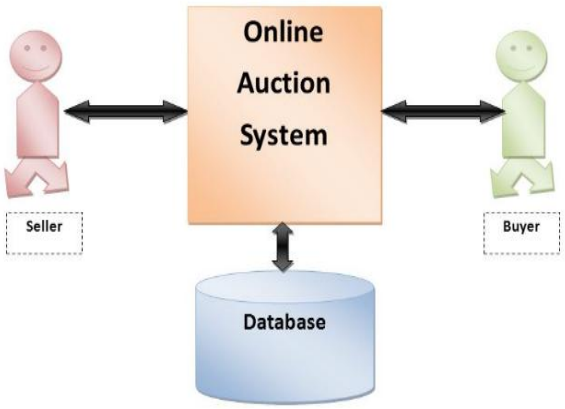

Fig 1. Block Diagram.

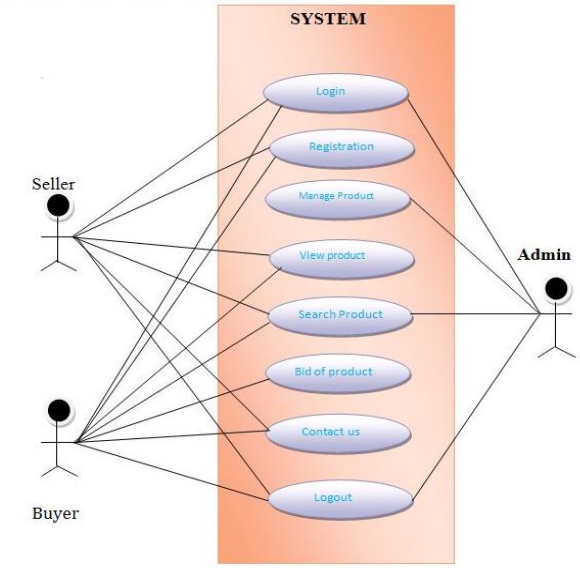

Fig 2. Use Case Diagram.

Use case diagram consists of use cases and shows the interaction between them.

The key points are:

- The main purpose is to show the interaction between the use cases and the actor.
- To represent the system requirement from user's perspective.
- The use cases are the functions that are t performed in the module.

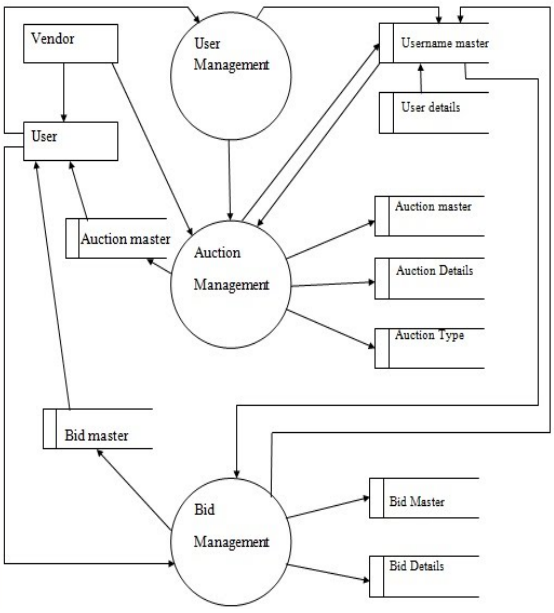

Fig 3. Data flow diagram.

The different data objects with their relationship are explained below using E-R (Entity-Relation) model. Many data objects are explained in details with their relations with other data objects and attributes.

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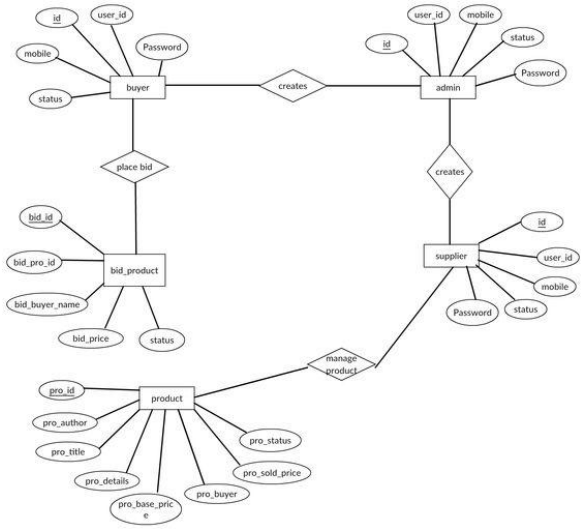

Fig 4. E-R Diagram.

V. IMPLEMENTATION AND SYSTEM TESTING

After all stages have been perfectly completed, the system will give the practical effect to ensure the all stages to the server and the system can be used.

1. System Testing:
The goal of the system testing process was to criticize all faults in our project. The program was subordinated to a set of test inputs and many explanations were made and based on these explanations it will decided whether the program implements as expected or not.

Our Project is divided into two levels of testing;

- Unit testing
- Integration testing

1.1 Unit Testing: Unit testing is begin when a unit has been created and efficiently checked. In order to test a single module we need to provide a complete environment i.e. different from the section we would require.

- The procedures associated to other units that the unit under test calls.
- There is non local data structures that module access.
- A procedure to call the functions of the unit under test with correct parameters.

VI. WORKING

1. Home Page:
The information is to inform how online auction system works. The information also will be conveyed by presenting snapshots for understandable how this online auction system works as well as easy to use.For the first operation, users need to create an account or login in order they have gain access to upload an auction.

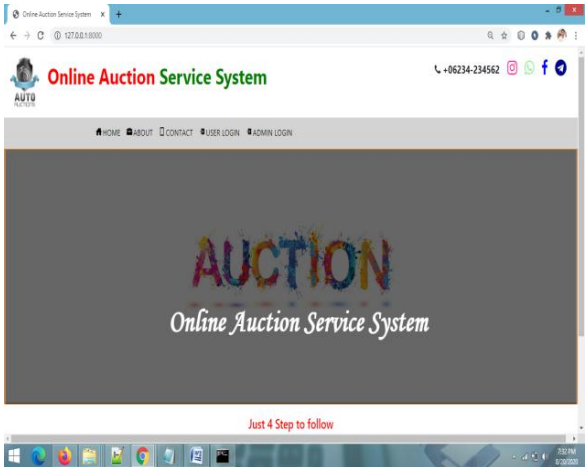

Fig 5. Home Page.

2. Login Page:

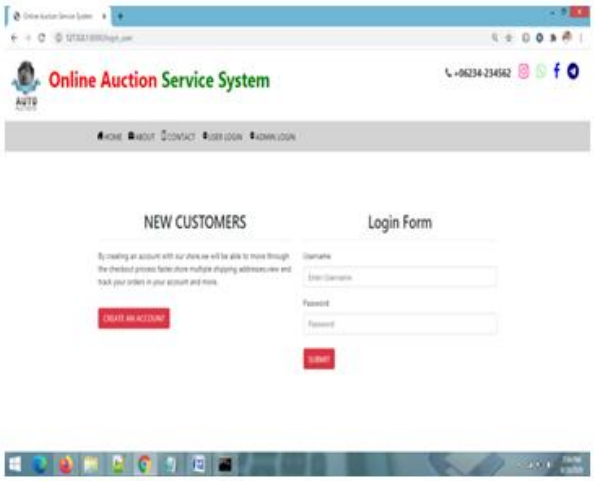

Fig 6. Login Page.

3. Registration Page:

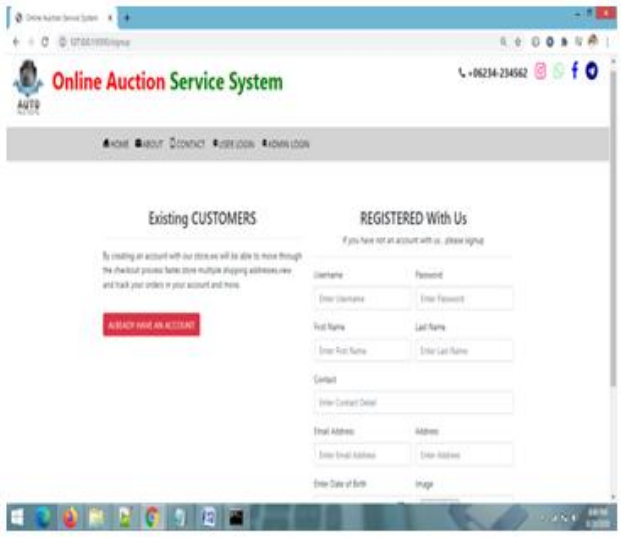

Fig 7. Registration Page.

4. Admin Page:

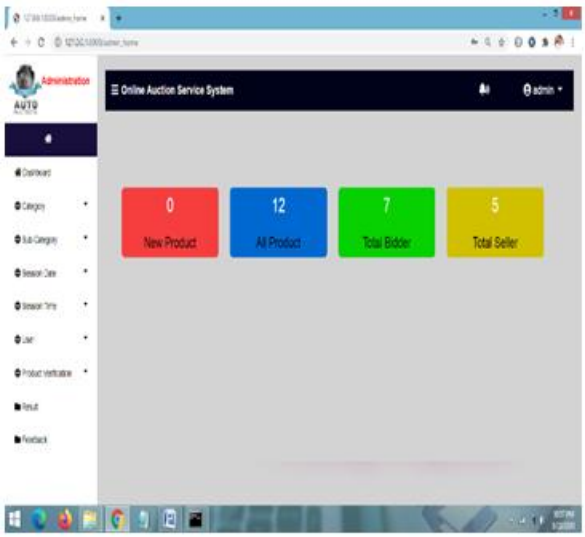

Fig 8. Admin Page.

5. Seller Home Page:

The second operation, users must login by using username and password which they created. And also edit their profile. When it true, an access granted is derived by them to upload the auction including determine category, subcategory, product name, price, image, session date and time.

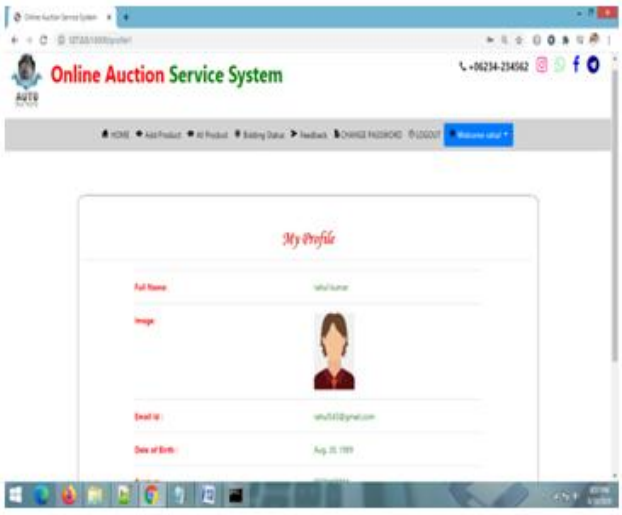

Fig 9. Seller Home Page.

6. Add Product for Auction:

The third operation is how users allow bidding an auction item. In this, users must have login first before a bid price. Bidding process will start when bidders click on all item menu displayed on the screen. Next bidders may look all of auctions and they can select which one of auction they want to give a bid. Bidding of the auction will be more and more until the system detects the highest bidder who becomes a winner(owner of the auction).

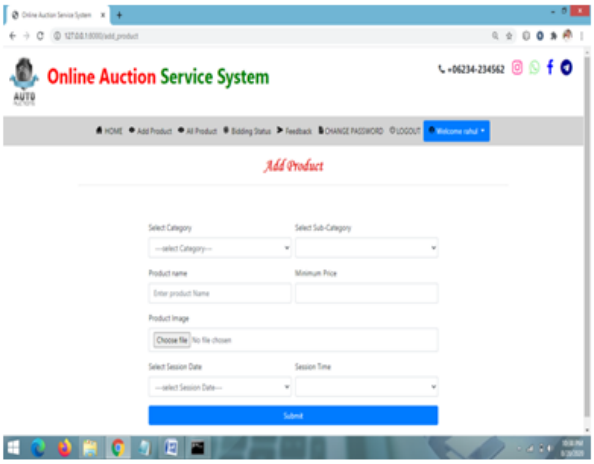

Fig 10. Add Product for Auction.

7. View Auction Product Page:

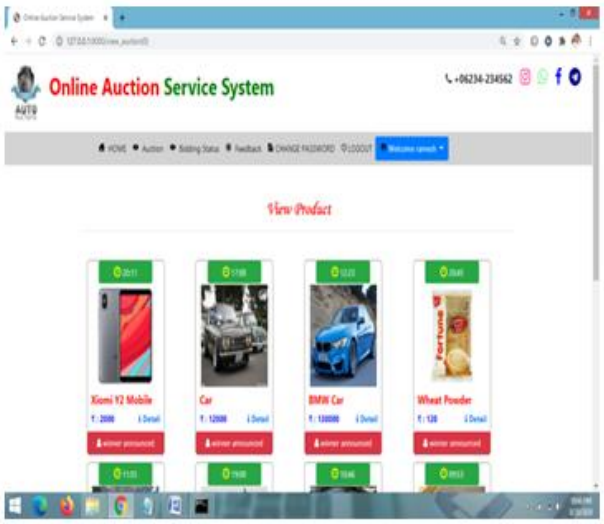

Fig 11. View Auction Product Page.

8. Auction Product Detail Page:

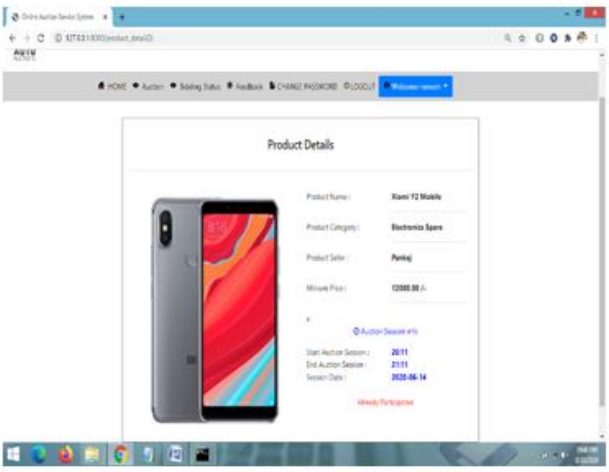

Fig 12. Auction Product Detail Page.

9. View All Auction Product:

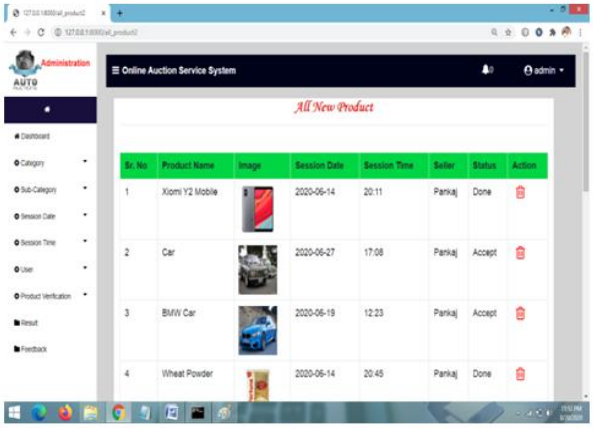

Fig 13. View All Auction Product.

VII. APPLICATION

Auction has many advantages it helps us to find a correct product by sitting at home. It saves money and time. Buyers can search and find items of interest because every item we can find their. Online auction can stay open for as long as you want. The buyer and the seller can communicate properly through it. If the buyer has any inquiry they can directly ask to the seller themselves. The seller gets more benefits because of these online auction system. The main reason we get a good quality product.

VIII. FUTURE SCOPE

Online auction system is application where bidders and sellers come together to complete a deal or product purchasing. And the technology keeps on upgrading ,and it becomes harder to fulfill the requirements of the user. This project investigates the entry threshold providing a view action service via real options approach.

Where the entry threshold is established by using n outline auctioning designed for the use of normal (users) entrepreneurs, organizations, industrialists. For increase we ca do update of the system at based on object-oriented design. To guarantee the future security issue, for improving the security. Also improvement of implementation, documentation, design can be done. This site can be done more aggressive and expand more user friendly.

IX. CONCLUSION

Online auctions created have effectively created a giant virtual marketplace where people can gather to buy, sell, trade and check out the goods of the day. This project "Online Auction System" is developed using HTML, CSS and Bootstrap as front end and Python and sqlite database in back end to computerize the process of auction i.e. selling and buying product.

The huge benefit of using online auction sites to buy your home is that u can place offers at all hours of the day, also it removes geographical boundaries, location etc.

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