



SECURE ONLINE AUCTION SYSTEM USING WEB APPLICATION

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Abstract— Online auction systems allow to achieve an optimal trading of digital goods and services in a competitive market. blockchain-based auctions allow the bidders to take part in the process while maintaining the confidentiality of their bids in a decentralized, transparent, secure and auditable way. However, in a competitive market, parties would prefer not to disclose their interests to competitors, and to remain anonymous during auctions. In this project, we firstly analyze the specific requirements for blockchain-based anonymous fair auctions. We propose a formal model tailored to study auction systems facilitating anonymity, and we put forward a generic protocol relying on existing cryptographic primitives, such as designated verifier ring signature, to achieve bid confidentiality and bidder anonymity. Finally, we prove it to be secure against the security model we defined.

I. INTRODUCTION

Auction is the most popular way of moving away from fixed prices. Online actions work in much the same way as real ones: sellers put the item up for sale and potential buyers set their price. The difference is that online auctions are usually time limited. So bidding can only be made at a certain point in time. The rules for participation in the auction by volume are quite simple.

1.1 GENERAL INTRODUCTION:

The internet has become a very important aspect of life today. More than 3 billion people of the world have an access to the internet, which is relatively 45% of the world population. This has increased from 7 million users in the past 15 years which is a great and rapid growth. The number of users is anticipated to reach 60% by the year 2020. With this in mind, the rate at which this large population is seeking to buy items is also on the rise, as many people are seeking advanced and ideal routes of trading services. Some people spend a lot of money on transportation,

using a lot of time of which at the end of the road they might lack to get the desired items which they opted for.

It is open that most people are seeking to buy items every day in most cities and towns, both locally and abroad, desperate if they might get a solution, or a right person to deliver a solution to them. These people end up settling at items or service providers who are common or who sell illegal and fake items to the desperate buyers.

On the other hand, there are legit business people and store owners who have quality items in the locality of the auctioneer, but they do not meet for business because the auctioneer is not informed about the items available. This is a great frustration in deed

This project shall handle this issue by creating an online platform where a user will be able to post items online for auction. The items will accompany item name, selling price, and a picture presentation for the bidder to see (Dutta, and Ramamoorthy, 2009). The bidder, if interested in the item, will auction for the product and will be able to inspect the item physically to approve the product then complete the business with the seller.

This is important since the auctioneer does not necessarily need to make a physical consultation with the seller for him/ her to get the required services (). The auctioneer will have a provision to chat with the seller and consult with him about the details of the product. This chat will be confidential only between the buyer and the seller, ensuring the buyer's confidentiality. The customers will be assured of getting the right products, since they will take their time to analyses and compare a range of listed items and choose appropriately according to their need or desire. This will save time that buyers take in search of items and therefore they will save themselves from worsening of conditions which may lead to wastage of time conditions. This will also save money that is spend around travelling and bidding for the undesired items. Bidders will at the end of the day have a reason to smile with this online system.

This system will run on the internet since of the dynamic nature of the internet, and anybody can access it from smartphones, computers, personal digital assistants and many more digital gadgets. This is a sure promise that the system will serve many people in the country, and in the future it will reach out to the whole world

The system is a forum where the bidders meet their respective product sellers in their locality on the internet to solve the problem of item auctioning.

1.2 PROBLEM BACKGROUND:

Auction is the most popular way of moving away from fixed prices. Online auctions work in much the same way as real ones: sellers put the item up for sale and potential buyers set their prices. The difference is that online auctions are usually time-limited, so bidding can only be made at a certain point in time. The rules for participation in the auction by volume are quite simple. Here is a description of the different types of auctions (English, Dutch, auction with minimum price), a list of prohibited items, the order of registration and even listed measures of influence on the Violators of the Rules. The blackmailer comes by email to the violator of the Rules and his product is immediately withdrawn from the auction.

1.3 PROBLEM STATEMENT:

The search for items has always been a mind-chewing activity to most of people in country and in the whole globe. People are always on the go to their renown product supplier, or nearby market center or at times a local hawkers, who goes on to supply items and at times when he cannot get the item the buyer wants, mostly they give their hands to get them items and at times they mess and bring fake and quarks deliver stolen and bad items. This is because unqualified people offer delivery of items to customers.

Due to the disparity of the buyers, cone-men have always taken the advantage to offer item delivery to the customers. Many fake items have found their way into the hands of the people, or buyers remain in the same condition of lack, as they don't get the right items from the sellers. Sometimes buyers struggle to find the right items, in failure, and they seek to get back to their homes. On the other hand, we have suppliers and business people who are qualified to supply and sell the items yet they have very few people who can come to them, more so in the same locality.

1.4 RESEARCH OBJECTIVE:

1.4.1 General Objective

To create an online auction platform that will give vendors a place to network with potential customers and sell goods to keen bids

1.4.2 Specific objectives

The Online auction management system shall accomplish the following as way of achieving the major goal:

1. Create an online forum where bidders auction for items posted by the seller through the online system.
2. Create a panel where by a sellers receives requests from a buyer and sends back a feedback, an answer to a question or requests to meet the bidder.
3. To implement and test the workability of the newly developed system.

This study lays out a frame for a new system to be developed and brought to the request for maximum use and to produce an avenue through the web where druggies can log on to our garçon and make a selection of whatever goods or food they like and latterly pay via the internet. The following are the objects this would bring:

1.5 SCOPE OF STUDY:

This system is designed as an online web-based application which shall be accessed by any device, either a computer, tablet, iPad, iPhone, mobile phone or PDAs.

This system is targeted to serve primarily my local town, then by more modification it shall serve the whole country where more business enterprises shall have access to the system and finally reach out to the entire globe.

Using this online auction management system, bidders will be able to get connected to the specific sellers who will offer them necessary information and or give hand to sell their items to them. It will help save time and offer quality deliverables to the bidders by quick response and attention services (Gemino and Parker, 2009). This system will replace the manual way of seeking items in the market and travelling long journeys just to get an item yet there are available items just in the neighborhood.

The scope of this application to build a user friendly auctioning website, where user will be able to auctioned any product which is available nearby or anywhere in the world. By using Online Auction management system it will be easy for auctioneer to make an auction and time saving also. By making auction through this application will help to reach maximum of buyers bidding in local area. There will be a feature where bidder and seller can message each other.

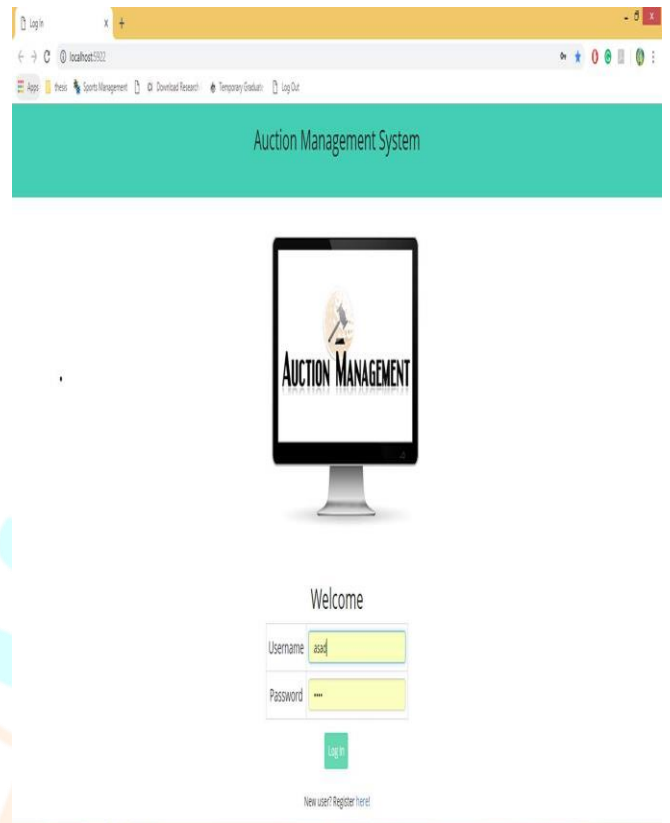
LITERATURE SURVEY

Paper [1] TITLE: the development of e-commerce in the field of intelligent information systems for online auctions. Their disadvantages, advantages, services, security systems and payments through the Internet are identified. In addition, a key part of this work is the development of technology for determining the effectiveness of trading systems for online auctions. The authors of the paper deal with some issues of designing intelligent information systems Internet auction analyze the main achievements and problems in the field of auction on the Internet and the use of ecommerce technologies. The problems identified and the ways to solve them allow us to speak about the prospect and further dissemination of such research and development. The practical implementation of the proposals of the authors is presented by the project of Intelligent Information System Internet auction, as well as schemes of work of users with similar systems, construction of intelligent information system Internet auction based on e-commerce servers. The results obtained can generalized to other developments and projects in the field of designing similar systems on the Internet based on e-commerce.

Paper [2] TITLE: Online auction systems allow to achieve an optimal trading of digital goods and services in a competitive market. Existing blockchain-based auctions allow the bidders to take part in the process while maintaining the confidentiality of

their bids in a decentralized, transparent, secure and auditable way. However, in a competitive market, parties would prefer not to disclose their interests to competitors, and to remain anonymous during auctions. In this paper, we firstly analyze the specific requirements for blockchain-based anonymous fair auctions. We propose a formal model tailored to study auction systems facilitating anonymity, and we put forward a generic protocol relying on existing cryptographic primitives, such as designated verifier ring signature, to achieve bid confidentiality and bidder anonymity. Finally, we prove it to be secure against the security model we defined..

This is the home page , here we have register page , login page and cart view. when the user enter first they see the home page..



II. SYSTEM DESIGN

A.BLOCK DIAGRAM

New User Registration :

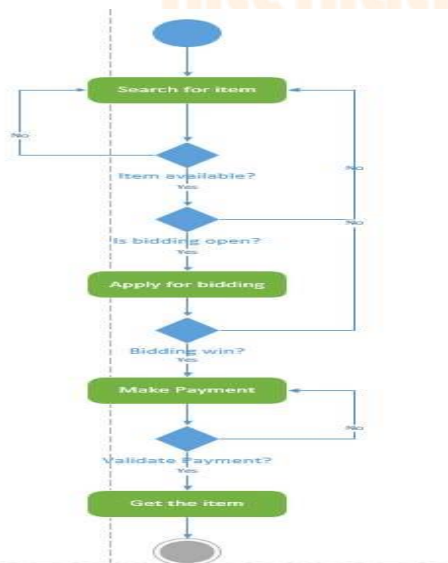
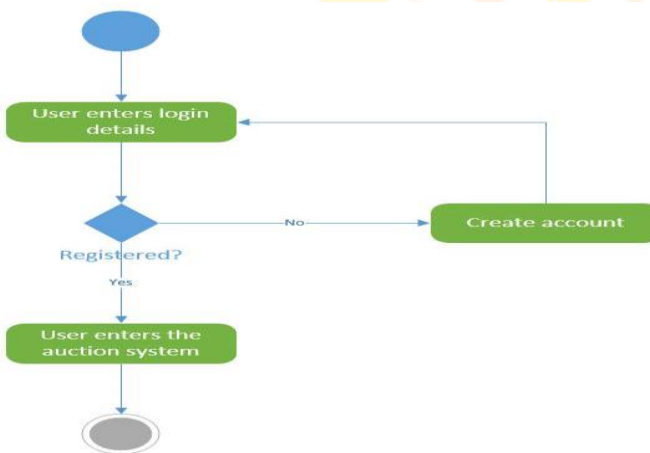
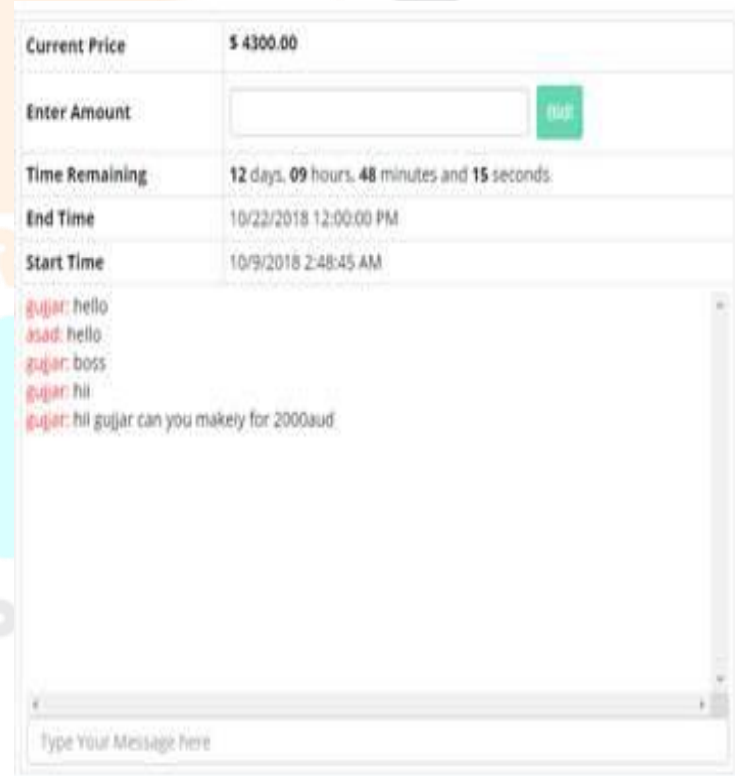
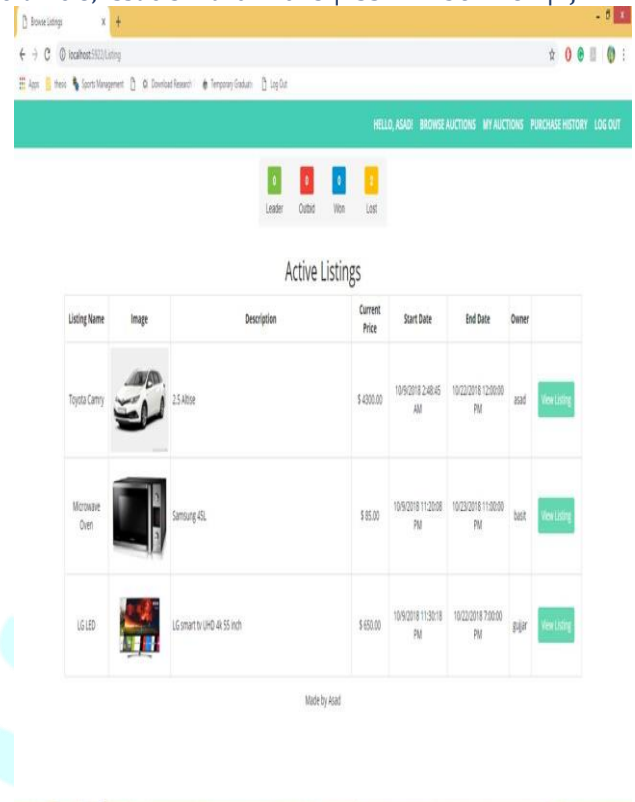
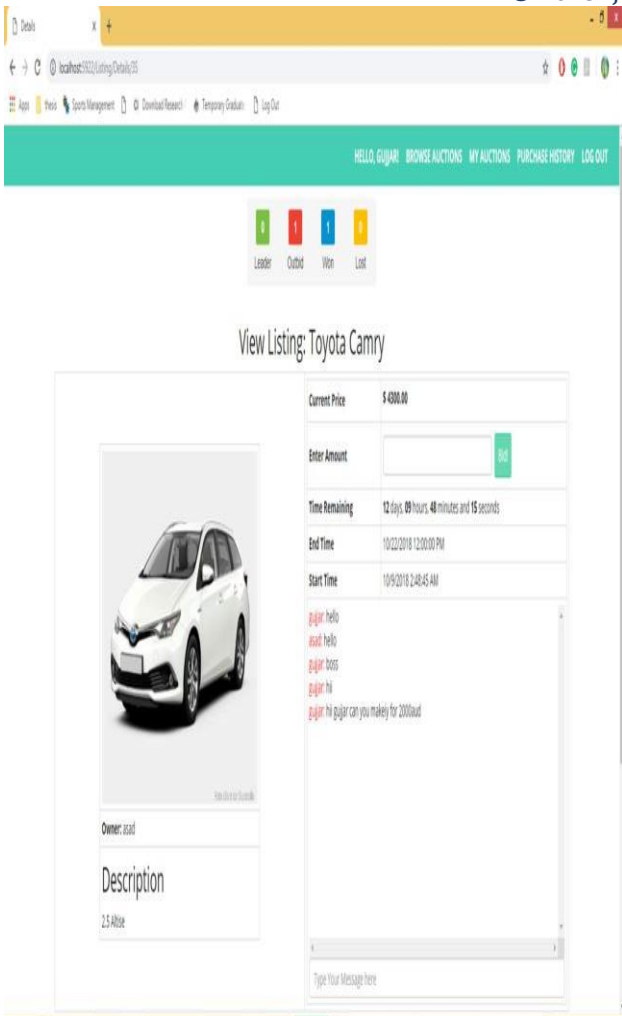


Fig: Bidding Process



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CONCLUSION

This system will run on the internet since of the dynamic nature of the internet, and anybody can access it from smartphones, computers, personal digital assistants and many more digital gadgets . This is a sure promise that the system

The system is a forum where the bidders meet their respective product sellers in their locality on the internet to solve the problem of item auctioning.

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