ONLINE AUCTION PLATFORM

A MINI PROJECT REPORT

Submitted by

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in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

CSE

CHITKARA UNIVERSITY

CHANDIGARH-PATIALA NATIONAL HIGHWAY
RAJPURA (PATIALA) PUNJAB-140401 (INDIA)

OCTOBER,2024

ABSTRACT:

Online auctions have revolutionized the way goods and services are bought and sold, offering a dynamic platform for buyers and sellers to interact in a global, digital marketplace. This report provides an in-depth analysis of the online auction system, focusing on its evolution, types, key characteristics, and its impact on modern commerce. The study covers the various auction formats commonly used in the online environment, including English auctions, Dutch auctions, sealed-bid auctions, and reverse auctions. Each auction model is explored in terms of its structure, advantages, and potential drawbacks, providing insight into how they cater to different types of products and market needs.

The report also delves into the psychological and behavioral factors influencing bidders in online auctions. It examines how factors like time pressure, bid increment strategies, and auction duration shape bidding behavior, as well as how auction platforms design their systems to maximize both bidder engagement and seller profits. Technological advancements, such as the use of artificial intelligence and machine learning, have played a critical role in optimizing auction platforms, influencing pricing algorithms, and improving user experience.

The analysis also explores the diverse industries that benefit from online auctions, including real estate, art, collectibles, and consumer goods. Case studies highlight the successes and challenges of major online auction platforms like eBay, Sotheby’s, and Christie's, illustrating how they have adapted to the digital transformation of the auction process. Additionally, the report considers the regulatory and ethical concerns surrounding online auctions, including issues of fraud, transparency, and fairness in bidding.

KEYWORDS:auction,buy,sell.

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INTRODUCTION:

The online auction system is a model where we participate in a bid for products and services. This auction is made easier by using online software which can regulate processes involved. There are several different auction methods or types and one of the most popular methods is the English auction system. This system has been designed to be highly-scalable and capable of supporting large numbers of bidders in an active auction. The Online Auction System has several other names such as e-Auctions, electronic auction etc. The requirement for online auction or online bidding can be more accurately specified by the client. It should be healthy and will be a good practice when it is made more transparent as a matter of fact. Online Bidding has become more widespread in all sorts of industrial usage. It not only includes the product or goods to be sold, it also has services which can be provided. Due to their low cost this expansion made the system grow. Online bidding has become a standard method for the procurement process. Bidders can be maintained in a single database according to the preference, and they can be monitored. User's data can be maintained in a confidential way for validity and integrity of contractual documentation. Neat reporting reduces paperwork, postage, photocopying and time. Multiple bidders can be communicated with a great ease. This system allows multiple bids by single users. Online bidding is based upon lowest or the highest price which is initiated but not the best value for the product. Although there is a chance to fix the criteria against the fact expected to have desired value by the seller.

There is a common page for vendors and for users but when both log it in, it would be easy to find out that either it is a vendor or a user because of the registration details because their registration forms are different. There are two home pages i.e, one page behave differently if vendor login then shows the vendor cart or if the customer will login then customers cart will be displayed on the screen.

PROBLEM STATEMENT:

A few decades down the line, auctions were carried out in auction houses and the bids were made with the auctioneer delegating the bids and this method required the physical presence of the bidders, thus it resulted in a number of limitations. This led to the use of online auctioning which allows for the auctions to be carried out over the internet from anywhere in the world. The advent of online auctions presents on its own, different downsides due to the lack of proper evaluation techniques of the products and the sellers. The current systems do not allow for proper description of the kind of sellers and the kind of products that they sell. These systems do not provide enough detailed information to evaluate the type of sellers and their products. This results in the buyers uncertainty thus resulting in the reduced effectiveness of the online auctions making people opt for online auction markets.

TECHNICAL DETAILS:

In order to implement an automated system, the relational database must be designed first. Conceptual design can be divided into two parts: The data model and the process model. The data model focuses on what data should be stored in the database while the process model deals with how the data is processed. To put in the context of the relational database, the data model is used to design the relational tables. The process model is used to design the queries that will access and perform operations on those tables.

SOFTWARE USED:

HTML: It is the one of the front end technologies used to build their user interface for online auction platforms. It is also used to create static web pages and web applications.

CSS: It is a style sheet language responsible for the presentation of documents written in markup language. It is used to style and layout web pages. For example, to alter the font color, size, and spacing of your content splitting it into multiple columns or add animations or other decorative features.

JAVASCRIPT: It is used to create interactive and dynamic web pages, applications, and games. It is mainly used to create interactive web pages that respond to user input.This includes drop-down menus, animations, and pop-up windows.

METHODOLOGY:

Algorithms show the flow of a program and how it is being executed. It shows the successful working of the system. They are used for problem solving in programming due to their simplicity to understand.
Steps followed in the Algorithm –
Step 1: Start
Step 2: Input details for sellers and buyers (Email and Pass).
Step 3: Login with credential and if the right user gets the access to the application.
Step 4: After getting access sellers can add products for bidding.
Step 5: After creating an account, the bidder can bid for products according to their choice.
Step 6: when the bidder wins the bid they can contact the seller for delivery of product.
Step 7: Logout.
Step 8: Stop.

KEY FEATURES:

BIDDING SYSTEM:
Online auctions offer flexibility in time and place, allowing bidders to participate from anywhere.
PAYMENT PROCESSING:
An essential feature for any online business, payment processing allows the system to accept payments and make payouts.
SEARCH AND FILTERS:
Search and filters are important for any website or app that sells products, as they allow users to find what they are looking for.
AUCTION MANAGEMENT:
Auction platforms need to be able to handle millions o f items and auctions daily so it's important to be able to display items and allow users to search easily.
MOBILE COMPATIBILITY:
Mobile compatibility is important because more people are using their phones to access the internet

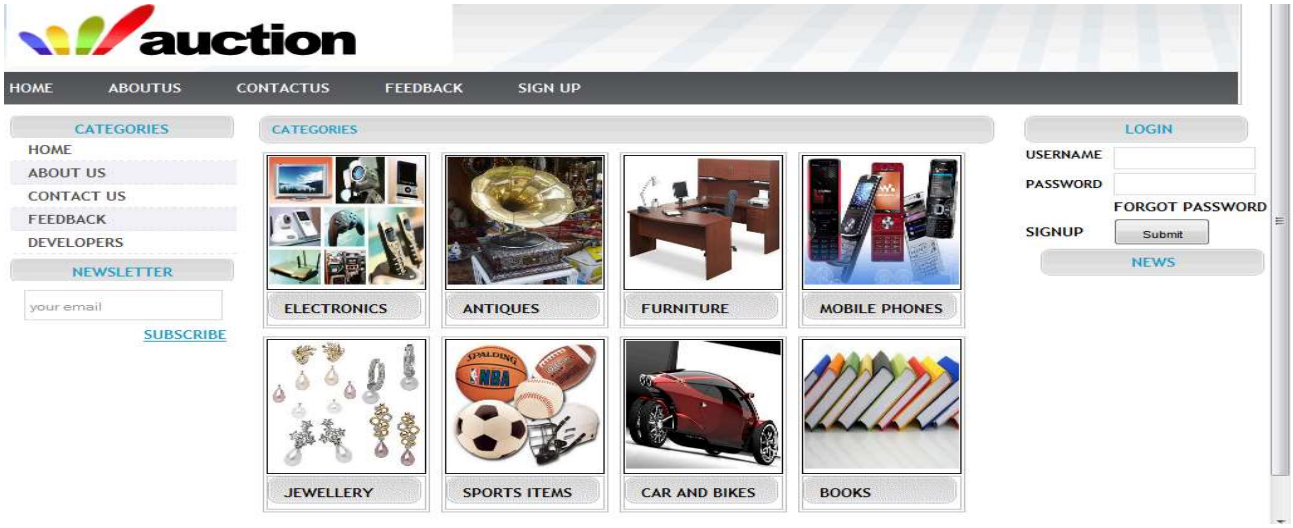
PROJECT HIGHLIGHTS:

USER-FRIENDLY:
The system should be easy to use for both buyers and sellers, with a smooth experience .
SECURITY:
The system should have security measures to enable safe transactions.
MULTIPLE PAYMENT OPTIONS:
the system should support multiple payment options.

RESULTS:

Results and Analysis chapter shows the actual result of the project. Seller uploads his product for auction system app. Many Bidders are there for bidding the product and there is an auction done and a much better price gets for the seller and it is also useful for the bidder. So the result is useful for both seller and bidder.

Online auctions can connect buyers and sellers from all over the world. They remove geographical boundaries and allow buyers to place offers at any time.



CONCLUSION:

Online auction system will give new approach and dimension to auction system Online auction system will give new approach and dimension to auction system Online Auction Portal is a new experience and has greatly impacted the lives of consumers in its short time of existence. Online auction portal has made consumers more effective and efficient in their behavior and has driven businesses to a new level, forcing many to make the necessary adjustments and changes to reach the new market of knowledgeable consumers. The huge benefit of using online auction sites to buy your home is that you can place offers at all hours of the day, also it removes geographical boundaries, location etc.

LINKS OR REFERENCES:

Image collected from google images for auction.
https://images.google.com

eBay platform that serves business models and some items placed from online auctions.
http://www.ebay.com

Instant marketplace platform includes auction and e-commerce capabilities.
http://instantmarkets.com

Bidding owl allows nonprofits to run online auctions and other fundraising campaigns.
http://biddingowl.com