

SYNOPSIS ON
“BidWiz: Redefining Auctions, Revolutionizing Bids”

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Bachelor of Technology
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By

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1. Introduction

An online auction project is a system that holds online auctions for various products on a website and serves sellers and bidders accordingly. The system is designed to allow users to set up their products for auctions and to register and bid for various products available for bidding. The system also consists of products sorted by categories and by price. Users feedback is also provided to Admin.

Online Auction or the E-auction system project consists of the following features:

- User Login: User can register online and then access the system on authentication.
- Sort Products: User can sort products by category and price range.
- Auction products: User can set up products for auction by providing details and minimum bid.
- Delete Products: User can delete his own products.
- Admin Login: Admin can login to system and view products as well as feedback and even delete other users products.
- Auction time: User can set auction time on posting product for selling, the winner is declared after time elapse.
- Email notification: Auction winner gets seller details, auction seller gets winner details on email.

This Application uses html,css,JavaScript as a front-end and Django and python as the back-end.

2. Project Objective

The project is an online auction web site aimed at taking the auction to the fingertips of aspiring bidders there by opening up the doors to a wider cross section of internetusers who love to shop online.

The rise of e-commerce has fueled the demand for efficient and user-friendly online auction platforms. In response to this market demand, our objective is to develop a robust and scalable online auction system using Django and Python as the backend technologies. The platform aims to provide a seamless experience for both buyers and sellers, facilitating secure transactions and fostering trust among users.

3. Feasibility Study:

The purpose of this feasibility study is to assess the viability and potential challenges of implementing a project for online Auction System.

➤ **Technical Feasibility:**

User Registration and Authentication: Users should be able to create accounts, log in securely, and manage their personal information.

Listing Management: Sellers should be able to create listings for the items they want to auction, including details such as item description, images, starting price, reserve price (if applicable), and auction duration.

Bidding Mechanism: The system needs to support bidding on items, including placing bids, viewing current bid status, and automatic bidding (proxy bidding) to facilitate competitive bidding.

Payment Processing: Integration with payment gateways to facilitate secure transactions for winning bids. This may involve credit/debit card payments, PayPal, or other online payment methods.

Auction Monitoring: Real-time monitoring of auctions, including notifications for bid updates, outbid notifications, and auction ending alerts.

User Communication: Messaging functionality for communication between buyers and sellers, such as asking questions about the item, negotiating terms, and arranging payment and shipping details.

Security Features: Implementation of security measures to protect user data, prevent fraudulent activities, and ensure the integrity of the auction process.

Search and Filtering: Users should be able to easily search for items of interest and apply filters to narrow down their options based on criteria such as category, price range, location, etc.

Feedback and Rating System: A system for buyers and sellers to leave feedback and ratings for each other based on their auction experiences. This helps build trust within the community and ensures accountability.

Mobile Responsiveness: With the increasing use of smartphones and tablets, it's essential for the online auction system to be mobile-friendly and responsive across various devices and screen sizes.

Analytics and Reporting: Providing sellers with insights into the performance of their listings, such as the number of views, bids received, and final sale prices. This can help them make informed decisions about their auction strategies.

Legal and Regulatory Compliance: Adherence to relevant laws and regulations governing online auctions, including consumer protection laws, privacy regulations, and taxation requirements.

➤ **Operational feasibility:**

User-Friendliness: The system should be intuitive and easy to use for both buyers and sellers. It should require minimal training for users to understand how to create listings, place bids, and manage auctions.

Efficiency and Performance: The online auction system should be capable of handling a high volume of concurrent users and transactions without experiencing significant slowdowns or downtime.

Integration with Existing Processes: If the online auction system is being implemented within an organization or as part of an existing e-commerce platform, it should seamlessly integrate with other systems and processes.

Scalability: The system should be scalable to accommodate growth in user base and transaction volume over time.

Security and Data Privacy: Robust security measures should be in place to protect sensitive information such as user credentials, payment details, and transaction data. Compliance with data privacy regulations.

Support and Maintenance: Adequate support and maintenance processes should be established to address technical issues, provide assistance to users, and ensure the ongoing reliability of the system.

Cost Considerations: The operational costs associated with maintaining and running the online auction system should be carefully evaluated.

Training and Change Management: Training programs should be developed to educate users, administrators, and support staff on how to effectively use and manage the online auction system.

➤ **Economic feasibility:**

Cost-Benefit Analysis : Conducting a thorough cost-benefit analysis considering development costs, operational expenses, and projected revenue streams.

Market Potential Feasibility: Conducting market research and feasibility studies to understand customer needs, willingness to pay, and market size.

Risk Analysis: Identify and assess potential risks and uncertainties that could impact the economic feasibility of the online auction system. This includes risks related to market competition, technological obsolescence, regulatory changes, security breaches, and fluctuations in demand or pricing.

➤ **Schedule Feasibility:**

1. Development Timeline

Requirement: Establishing a realistic timeline for system development, testing, and deployment.

Feasibility: Breaking down the project into manageable milestones and allocating resources effectively to meet deadlines.

2. Iterative Development

Requirement: Adopting an iterative development approach to incorporate feedback and enhancements.

Feasibility: Implementing agile methodologies to iteratively build and refine the system based on user feedback and evolving requirements.

3. Risk Mitigation

Requirement: Identifying potential risks and implementing mitigation strategies to minimize schedule disruptions.

Feasibility: Proactively addressing risks through contingency planning, resource allocation, and stakeholder communication.

➤ **Legal Feasibility :**

1. Regulatory Compliance

Requirement: Ensuring compliance with relevant regulations governing medical software and data privacy.

Feasibility: Collaborating with legal experts to navigate regulatory requirements

2. Intellectual Property Protection

Requirement: Protecting intellectual property rights associated with the system's technology and algorithms.

Feasibility: Implementing measures such as patents, copyrights, and trade secrets to safeguard intellectual property.

3. Liability Considerations

Requirement: Addressing liability concerns related to the accuracy of diagnoses and patient outcomes.

Feasibility: Drafting comprehensive terms of use and disclaimers, and securing appropriate insurance coverage to mitigate potential liabilities.

	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
Frontend										
Login/Sign up Page										
Home Page										
Validation Page										
Feedback Page										
Backend										
Page Integration										
Validation Module										
Database Integration										
Testing and Fixing										
Validation										
Database										

4. Methodology/ Planning of work

Developing a Online Auction system using Django and Python which involves several steps and methodologies.

Preparing the frontend for user login/signup and the user interface for the clients of the online auction system using html,css and javascript.

Backend will be managed by python,django to provide securities and easy maintainability.

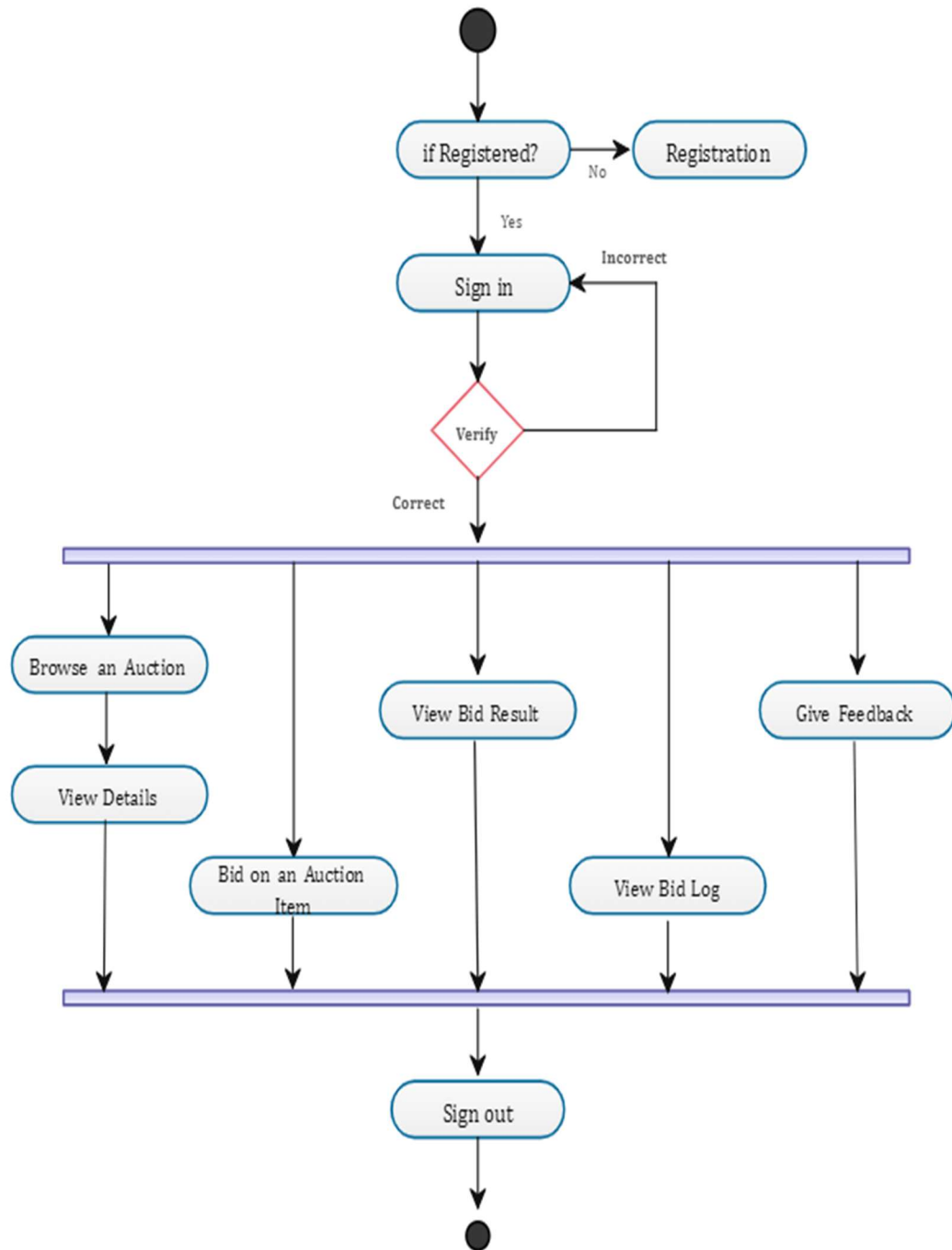
My SQL database is used to store the data of the users.

Ensure that the system is designed and deployed in a way that respects user privacy and confidentiality.

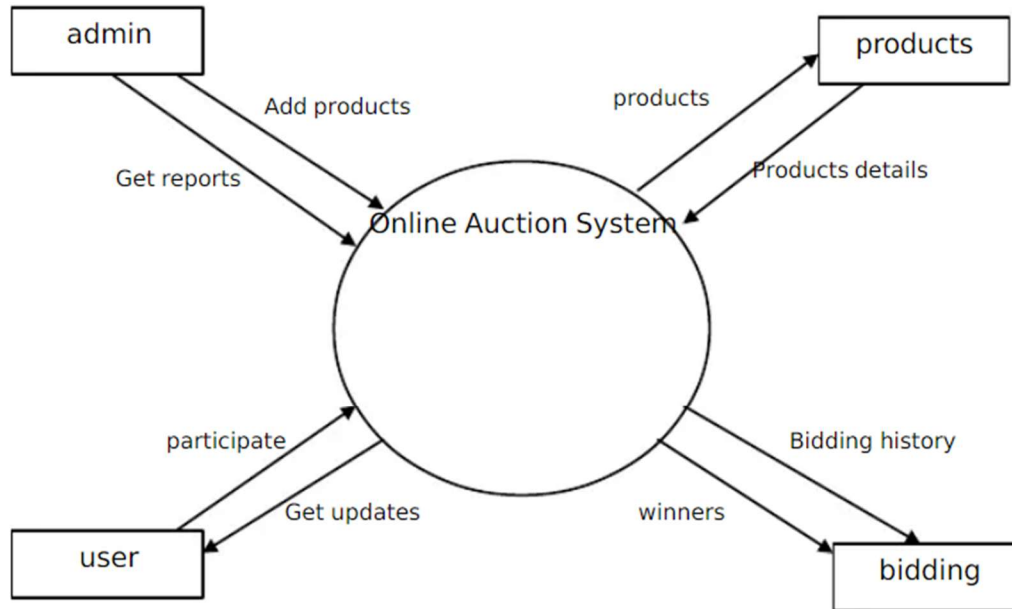
Provide clear disclaimers about the limitations of the system and encourage users to get the accurate bidding cost of the items.

Document all steps involved in the project, including data preprocessing, model architecture, training procedures, and deployment instructions.

Flow Chart:



Data Flow Diagram:



5. Tools/Technology Used:

5.1 Minimum Hardware Requirements

Hardware required for the development of the project.

- **CPU:** Intel Core i3 or AMD Ryzen 5 (or equivalent)
- **RAM:** 8GB or higher
- **GPU:**
- **HDD:** 250GB or higher
- **Others(if any):**

5.2 Minimum Software Requirements

Software required for the development of the project.

- **OS :** Windows 10 or macOS Catalina (or later versions)
- **Python:** Version 3.7 or higher
- **VSCode:**

6. References: [IEEE format]:

Here specify the description of the study material (Research Papers/other references) referred for the development project.

- <https://www.geeksforgeeks.org/python-programming-language/>
- <https://github.com/gpouilloux/auction-system>
- <https://www.youtube.com/watch?v=pIA4vDXfiHI>
- Django Tutorial - <https://www.youtube.com/watch?v=JxzZxdht-XY>
- <https://ijsrem.com/download/advance-e-auction-system-using-python-django/#:~:text=Abstract%20%2D%20The%20Advanced%20E%2DAuction,security%2C%20a nd%20ease%20of%20maintenance>
- https://shivajichk.ac.in/pdf/Project_Computer_Science.pdf