ART VAULT AUCTIONS: A SECURE ONLINE ART AUCTION PLATFORM

A Mini Project

submitted to Ethiraj College for Women (Self-Supporting) in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF COMPUTER APPLICATIONS[BCA]

Submitted

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BONAFIDE CERTIFICATE

Certified that this is a bonafide record of work done by _____, with Register Number _____ of III year B.C.A. Degree Course in the Ethiraj College for Women during the year 2024 – 2025 in respect of Project II: Mini Project [CA21/6C/PO2].

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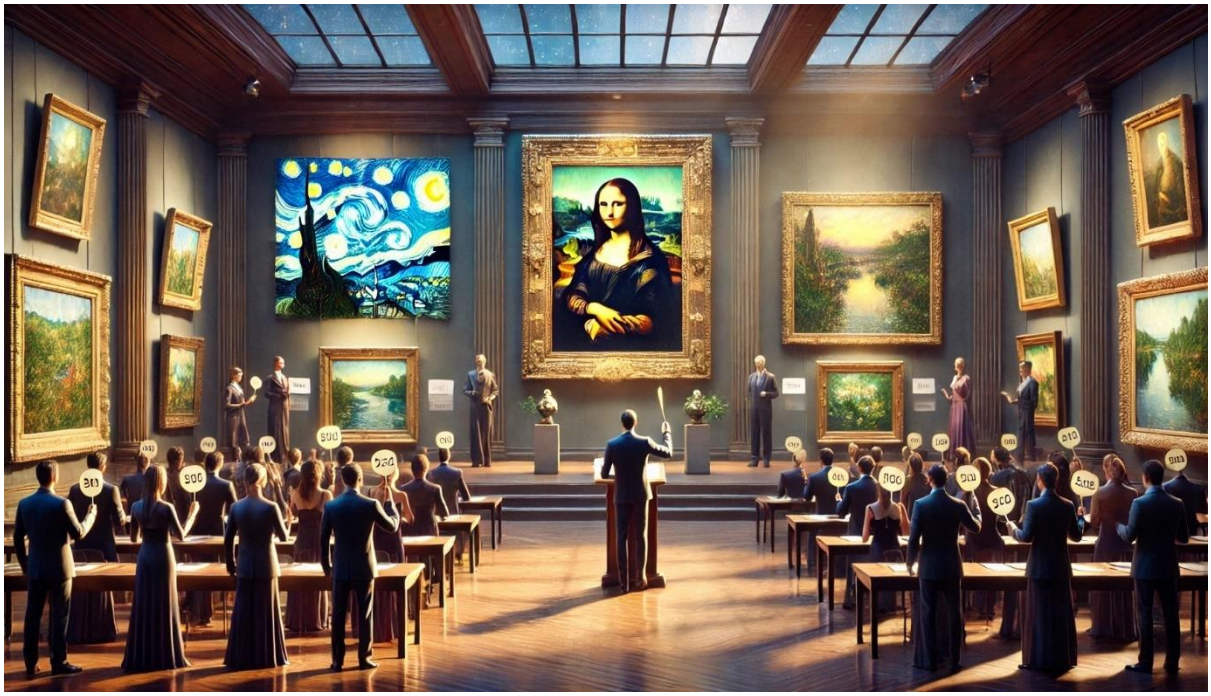
ART VAULT AUCTIONS

A SECURE ONLINE ART AUCTION PLATFORM



ABSTRACT

Art Vault Auctions is an online auction platform designed to facilitate the seamless buying, selling, and bidding of artwork in a secure and interactive environment. The platform features a **real-time bidding system**, allowing users to place bids on paintings with instant updates, ensuring transparency and engagement. It incorporates **secure authentication and user account management**, enabling buyers and sellers to create profiles, upload artwork, and participate in auctions. Users can **follow artists**, receive notifications about new listings, and track their favorite paintings. The platform also includes **cart management and payment simulation**, providing a streamlined transaction process. Built with **Django for the backend, HTML, CSS, and JavaScript for the frontend, and SQLite for database management**, the system ensures efficient handling of auction events and transactions. Additionally, an **admin panel** allows for auction oversight, artwork verification, and transaction management. To enhance user experience, the platform supports **profile customization**, allowing users to update profile pictures and settings. Addressing challenges such as **bid synchronization, auction security, and real-time updates**, the system leverages AJAX for smooth bid tracking, ensuring a responsive and dynamic experience. Future enhancements, including **WebSockets for real-time communication and improved payment integrations**, will further optimize the platform's scalability and user engagement.

Keywords: Online Auctions, Real-Time Bidding, Digital Art Marketplace, Secure Transactions, User Authentication

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