**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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**APRIL 2025**

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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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Submitted for B.C.A. Degree Course Practical Examination held on\_\_\_\_\_\_\_\_\_\_

at the Centre Ethiraj College for Women, Chennai – 600 008.

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**ACKNOWLEDGEMENT**

The success of any project is not solely the result of individual effort but also depends on the encouragement and guidance of many others. I take this opportunity to express my heartfelt gratitude to everyone who contributed to the successful completion of this project.

I extend my sincere thanks to our Principal, **Dr. S. Uma Gowrie, M.Sc., M.Phil., Ph.D.,** and the College Management for providing the necessary facilities and unwavering support.

I am deeply grateful to our Head of Department, **Dr. Mrs. M. Henila, M.C.A., B.Ed., M.Phil., P.G.D.C.S., SET, Ph.D.,** for giving me this valuable opportunity and for her continuous encouragement. My profound gratitude goes to my guide, **Mrs. K.R.Sophia BCA.,M.Sc.,NET,** whose insightful supervision, valuable suggestions, and unwavering support were instrumental in the successful completion of this project.

I sincerely appreciate the support and guidance of all the faculty members in my department. I also extend my thanks to our lab assistant for her timely assistance.

I am forever grateful to my parents and family for their unconditional love, blessings, and encouragement, without which this project would not have been possible. Additionally, I express my appreciation to my friends, classmates, and well-wishers for their motivation and cooperation throughout this journey.

Finally, I thank the Almighty for granting me the strength and perseverance to complete this project.

**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

**TABLE OF CONTENTS**

|  |  |  |
| --- | --- | --- |
| S NO | CONTENTS | PAGE NO. |
| 01 | **Introduction**  1.1 Problem Statement  1.2 Objective of the Project  1.3 Scope of the Project  1.4 Overview of the Project | 1 |
| 02 | **Literature survey**  2.1 study of existing systems and scholarly analyses  2.2 comparative analysis of scholarly insights  2.3 identification of gaps and opportunities | 5 |
| 03 | **System requirements**  3.1 existing system for art auctions  3.2 proposed system for art vault auctions | 10 |
| 04 | **System planning**  4.1 tasks and modules  4.2 system layout  4.3 technology stack explanation  4.4 assumptions | 12 |
| 05 | **System design**  5.1 system menu flow  5.2 data flow diagram  5.3 data dictionary  5.4 relationship table | 16 |
| 06 | **Implementation**  6.1 development approach  6.2 frontend development  6.3 backend development  6.4 database management  6.5 security measures | 27 |
| 07 | **System development**  7.1 overview of development approach  7.2 frontend development  7.3 backend development  7.4 database schema & ORM | 31 |
| 08 | **Testing and debugging**  8.1 testing methods  8.2 debugging and troubleshooting | 100 |
| 09 | **Results and discussion**  9.1 user interface and features  9.2 backend data handling and responses  9.3 challenges faced & solutions | 105 |
| 10 | **Conclusion** | 120 |
| 11 | **References** | 124 |