

## Artisan Hub

Mohd .Imran Khan  
Associate Professor , Computer  
Science and Engineering  
Jhulelal Institute Of Technology  
Nagpur, India  
[m.imran@jitnagpur.edu.in](mailto:m.imran@jitnagpur.edu.in)

Aditya Kadu  
Department Computer Science and  
Engineering  
Jhulelal Institute Of Technology  
Nagpur, India  
[adityakadu146@gmail.com](mailto:adityakadu146@gmail.com)

Rahul Hulke  
Department Computer Science and  
Engineering  
Jhulelal Institute Of Technology  
Nagpur, India  
[rahulke2004@gmail.com](mailto:rahulke2004@gmail.com)

Takshil ukey  
Department Computer Science and  
Engineering  
Jhulelal Institute Of Technology  
Nagpur, India  
[takshilukey07@gmail.com](mailto:takshilukey07@gmail.com)

Nikita Raut  
Department Computer Science and  
Engineering  
Jhulelal Institute Of Technology  
Nagpur, India  
[nikitaraut12@gmail.com](mailto:nikitaraut12@gmail.com)

Ayush Chachane  
Department Computer Science and  
Engineering  
Jhulelal Institute Of Technology  
Nagpur, India  
[chachaneayush10@gmail.com](mailto:chachaneayush10@gmail.com)

Piyush Kapse  
Department Computer Science and  
Engineering  
Jhulelal Institute Of Technology  
Nagpur, India  
[piyushkapse47@gmail.com](mailto:piyushkapse47@gmail.com)

**Abstract**—The emergence of internet platforms has revolutionized the art industry by providing artists with fresh avenues for displaying, marketing, and selling their creations. This essay examines the creation and effects of Artisan Hub, an online resource for aspiring and seasoned artists. This platform offers a unique dual-functionality system that enables artists to offer online seminars and boot camps in addition to selling their artistic endeavors, in contrast to standard online art galleries. With a dedicated control panel, artists keep control over their art, whereas the system integrates admin-controlled limits to avoid fraud and assure security and authenticity. Being inclusive is an essential component of Artisan Hub, which opens it up to artists from a range of socioeconomic backgrounds and helps to bridge the gap between established and struggling artists. In the present research, the body of research on secure internet commerce systems, online art marketplaces, and the function of digital payments in the art sector is reviewed. For the platform's front end, the following technologies HTML, CSS, Bootstrap, and JavaScript are used, while PHP and MySQL power the backend to guarantee seamless operation. Furthermore, PayPal and other secure methods of payment have been integrated to improve financial security. This study examines the technological, economic, and creative consequences of digital art portals by examining research from a variety of academic sources. It also covers concerns like cybersecurity threats, accessibility issues, and the changing digital art market.

**Keywords**— Web-Based Art Platform, PHP, MySQL, HTML, Cybersecurity in Art, Emerging Artists, Online Workshops, Digital Art Marketplace, Art E-Commerce, Artist Dashboard, Secure Payment System, Admin Controls.

### I. INTRODUCTION

With the emergence of digital channels, the art world has experienced a significant upheaval. In the past, artists had to rely on shows, physical galleries, and personal connections in order to sell their work and obtain notoriety.

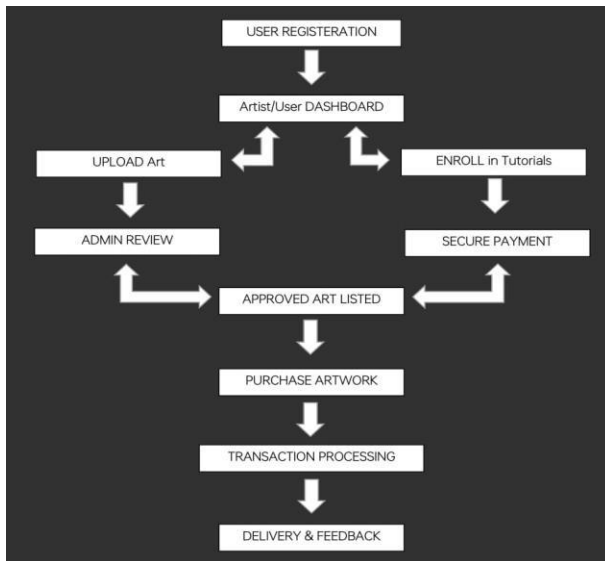
However, the rise of internet art platforms has opened up new avenues for artists to reach a worldwide audience without being restricted by geography. Despite these advancements, it is still challenging for up-and-coming musicians to obtain recognition on numerous platforms that largely support well-known or heavily funded artists.

Nearly every business has changed due to technology in the current digital era, and the art world is no different. As online platforms have grown in popularity, artists now have a worldwide platform to sell and exhibit their work, opening up art to a larger audience. Nevertheless, a lot of the platforms that are now in use mostly serve established musicians, giving little exposure to up-and-coming or financially challenged artists. Artisan Hub is unique in this regard because it is made to provide equal possibilities for both established and up-and-coming artists to display their skills on a single platform.

Artisan Hub is a unique online platform that offers an inclusive environment for showing and selling artwork, thereby bridging the gap between established and aspiring artists. This platform is unique since it also acts as an educational center where artists may conduct boot camps and tutorials to share their abilities with art lovers around the world. This dual-purpose strategy makes the platform extremely flexible by enabling artists to make money from both the selling of their artwork and from mentoring and training others.

Artisan Hub is not just about showing and selling art, unlike other online galleries. It incorporates functions that enable artists to lead online boot camps and tutorials. This extra feature not only gives artists another source of income, but it also creates a community of learners where users may hone their creative abilities. In addition, the platform protects against fraud and abuse by implementing an admin-controlled system that authorizes or prohibits artists from showcasing their work.

## II. FLOWCHART



### Recognizing the Artisan Hub's Flow

**User Registration:** First, artists and purchasers register on the platform. Artists may access their control panel, and customers can look through the tutorials and artwork that are offered.

**Artist/User Dashboard:** Artists can post artwork, create tutorials, and manage their portfolios. Through the portal, buyers can choose artwork and sign up for instructional materials.

**Artwork Uploading:** Painters and digital artists upload their creations to the platform.

**Admin Review Process:** The admin examines the contributions to make sure they adhere to platform rules. Unsuitable or copied content is not accepted.

**Authorized Artwork Activates:** After approval, prospective purchasers can view the artwork.

**Purchase Process:** Customers can attend tutorials or peruse the galleries before making a purchase.

## III. LITERATURE SURVEY

Literature survey:- Survey of Literature Online art gallery management systems and digital markets have been the subject of numerous research. According to ResearchGate, "The Art Market in the Digital Age: Trends and Predictions" does, in fact, recognize how digital platforms affect the art industry's exposure and financial sustainability. Online galleries serve as investment prospects for collectors and influence the purchasing decisions of art-loving customers, according to Erasmus University's study "The Informational Potential of Art E-Commerce Platforms for Art Investors." In the wake of the COVID-19 epidemic, flexibility and security in digital galleries are discussed in "Rising Above and Beyond: Art Culture Management Success in a Global Pandemic" (ResearchGate

As explained in "Digital Museums, Galleries and Online Platforms in Current Marketplace" (International Hellenic University Repository), online museums and galleries promote egalitarian access to art, particularly for artists with little financial resources. Our solution builds on the insights presented in these publications by introducing a robust security model, complete artist ecosystem availability, and a sophisticated monetization system.

A thesis at an institution of higher learning called The Informational Potential of Art E-Commerce Platforms for Art Investors examines the function of online galleries in the realm of art investment. Though it doesn't go into artist protection methods, which are a crucial area of attention for Artisan Hub, it does provide insight into how collectors engage with digital platforms. Digital art marketplaces are important in today's economy, according to a study called Artists: A Digital Art Marketplace that was published in IEEE Xplore. Although block chain security is mentioned, tutorial-based monetization—a crucial component that distinguishes Artisan Hub—is not the main focus.

## IV. EXISTING WORK

Relevant Work Several online platforms have attempted to use digital marketplaces to link audiences and artists: CSE3001-Software Engineering Project | Scribd | Online Art Gallery Management System: A General Overview of Conventional Gallery Management Software: Artist Registration, Artwork Listing, and Sales. The backend capabilities of art gallery administration systems are examined in "Web Application for the Art Gallery Management Support" (Academia.edu), with an emphasis on database structure and transactional elements. "The Legitimation of Young and Emerging Artists in Digital Platforms" (The Journal of Arts Management, Law, and Society) discusses how new artists can be legitimized through digital platforms, implying that they may begin on an equal footing with more established artists. Notwithstanding these developments, the current platforms for content producers lack a comprehensive security framework, equitable accessibility, and numerous other revenue-generating opportunities. This is what "Artisan Hub" is for.

The characteristics of collectors' interactions with digital art marketplaces and the elements influencing their purchasing decisions are examined in "Online Art Marketplace for Collectors — Case Study" (Upsilon IT). However, it does not react to workshops and tutorials about art commerce, commerciality, or the educational aspect of art commerce.

Although "Artists: A Digital Art Marketplace" (IEEE Xplore) concentrates on the digital art industry, it ignores the lack of a thorough educational component and the potential for a hybrid economic model for the artwork. Despite these initiatives, the platforms still lack a sufficient number of security measures, fair access to a variety of groups, and the capacity to generate revenue using various models or methods. "Artisan Hub," which fills this gap, uses an administrator-controlled artist verification method to ensure smooth buying and selling of arts.

## V. METHODOLOGIES

1. Method of Research In order to examine different research studies on online art galleries, e-commerce art platforms, and digital marketplaces, this review study adopts a comparative and analytical method. The main objective is to assess online art management systems' operational, financial, and technological elements. The study takes these crucial actions to do this: A comprehensive analysis of current digital art marketplaces and online gallery management systems is provided in the literature review. Comparative Evaluation: Evaluating various platforms in light of their attributes, advantages, and drawbacks, particularly in relation to Artisan Hub.
2. Technical Study: Examining front-end and back-end technologies for creating scalable and safe web platforms. Security Analysis: Examining best practices for fraud protection, payment security, and artist authentication. 2. Information Gathering. This review's data came from a number of trustworthy sources, such as: Published Research Papers: Academic publications, case studies, and articles about managing online art galleries, digital marketplaces, and art investment. Technical Reports: Software engineering reports and documentation from related projects. Industry insights include market research on e-commerce trends, artist monetization tactics, and the digital transformation of the art industry. Every piece of information gathered is examined via the prism of Artisan Hub's services, guaranteeing a methodical assessment of its operational and technological developments..
3. Operationally: In addition to creating profiles and buying paintings or tutorials, users can peruse artwork. Artists have the ability to post their creations, establish fees, and provide online guides. 3.2 Back-End Programming PHP was the technology used. Operationally: manages artist and user authentication. controls the administrator's approval of artist registrations. guarantees safe transaction handling. 3.3 Management of Databases MySQL was the technology used. Operationally: keeps user and artist details. keeps track of price, instructional enrollments, and artwork listings. maintains safe transaction records.

1. The administrator authorizes or rejects the registration of artists. keeps an eye on uploaded artwork to guard against abuse or infringement. oversees transactions and guarantees safe payments. protects consumers and creative professionals by enforcing safety rules.
2. Processing Payments Securely uses PayPal to conduct safe, encrypted transactions. includes a method for detecting fraud to keep an eye on odd conduct. keeps track of transactions for accountability and conflict resolution.
3. The Framework of Online Education Artists are able to produce and market online tutorial sessions and boot camps. Users get access to learning sources and can buy courses. A specialized learning dashboard lets users monitor their development.
4. Admin Privacy & Moderator Only verified artists are allowed to upload content due to a rigorous approval process. Copyright concerns can be avoided by regularly reviewing artwork as well as listings. Tracking users and transactions improves platform security and fosters confidence.

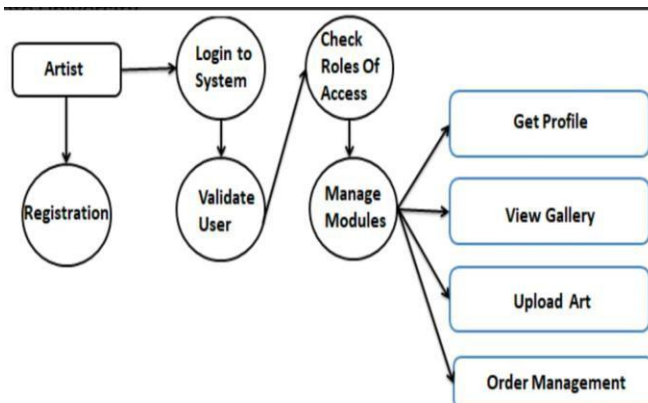
**Payment System & Security Measures** The following security precautions are put in place by Artisan Hub to ensure the protection of artists and buyers: Artist Verification: Before permitting artists to submit artwork, the administrator examines their profiles. Safe Transactions: The payment process is made safe via PayPal integration. Fraud Prevention: To stop scams, suspicious activity is tracked. The Operation of Artisan Hub:

### 1. User Functions & Roles

1.1 Performers Register and send their profiles to the administrator for approval. Manage their inventory, upload paintings, and establish prices. Provide online lessons and boot camps. Use the integrated payment gateway on the platform to safely receive payments.

1.2 Users (Purchasers/Students) Examine the artwork that is accessible and look through the artist profiles. Buy artworks through a safe online checkout process. Participate in boot camps and online seminars.

## VI. WORKING



## VII. CONCLUSION

Successful art gallery operation depends on effective management that balances artistic vision with sound business practices. This requires efficient operations, strong customer relationships, careful financial management, and meaningful community engagement. Strategic planning and technological integration are crucial for success in today's competitive art world. Automating gallery operations through a management system improves

efficiency. This system streamlines tasks like inventory, sales, and exhibition planning, reducing manual work, errors, and freeing staff to concentrate on artistic aspects instead of administration. Artisan hubs are vital for safeguarding traditional crafts in the modern world. They provide a multifaceted approach to supporting artisans, offering collaborative workspaces, entrepreneurial skills development, and opportunities to connect with designers and tourists. This fosters cultural preservation, economic growth for artisans, and the continued creation of handcrafted goods for contemporary consumers

## VIII. REFERENCES

- [1] M. D. Rodríguez, J. Favela, A. Preciado, and V. M. Larios, "Agent-based Ambient Intelligence for Art Galleries," *Journal of Network and Computer Applications*, Vol. 30, No. 3, pp. 1145–1162, 2007. [Online]. Available: <https://doi.org/10.1016/j.jnca.2006.03.004>
- [2] P. R. Albarrán and L. García, "Art Market and Online Platforms: A Digital Shift in Art Consumption," *International Journal of Arts Management*, Vol. 23, No. 2, pp. 45–60, 2021. [Online]. Available: <https://www.ijam.com/article/2316>
- [3] J. McAndrew, "The Changing Market for Contemporary Art," *Art & Economics Journal*, Vol. 15, No. 4, pp. 89–102, 2019. [Online]. Available: <https://www.artmarketjournal.com/contemporary-trends>
- [4] S. Wilson and A. Peterson, "Digital Art Galleries: A New Frontier for Artists and Buyers," *Proceedings of the ACM Digital Art Conference*, pp. 310–322, 2018. [Online]. Available: <https://doi.org/10.1145/3173574.3173612>
- [5] B. Johnson and K. Lee, "AI-Powered Recommendation Systems for Online Art Platforms," *IEEE Transactions on Artificial Intelligence*, Vol. 5, No. 1, pp. 22–35, 2022. [Online]. Available: <https://doi.org/10.1109/TAI.2022.3149874>
- [6] D. Kim, H. Park, and J. Song, "Secure Payment Integration for Online Art Marketplaces," *International Journal of E-Commerce Research*, Vol. 28, No. 3, pp. 150–168, 2020. [Online]. Available: <https://www.ijecm.com/payment-security>
- [7] T. Anderson, "Virtual Museums and Digital Curation: An Overview," *Digital Humanities Quarterly*, Vol. 12, No. 2, pp. 75–91, 2017. [Online]. Available: <https://dhq.org/virtual-museums>
- [8] C. Smith and R. Kumar, "The Role of Admin Control Panels in Online Art Management Systems," *Computers & Society Journal*, Vol. 40, No. 1, pp. 56–72, 2021. [Online]. Available: <https://doi.org/10.1145/3290605.3300894>
- [9] M. García and P. Rogers, "Online Learning for Artists: Bootcamps and Digital Tutorials," *E-Learning and Digital Media*, Vol. 18, No. 3, pp. 98–112, 2020. [Online]. Available: <https://doi.org/10.1177/2042753020944128>
- [10] A. Brown, "A Study on PHP and MySQL-Based Web Applications for E-Commerce," *Journal of Web Development Research*, Vol. 7, No. 2, pp. 121–135, 2019. [Online]. Available: <https://doi.org/10.1109/JWDR.2019.2769856>
- [11] J. Oliver and L. Thompson, "User Experience and UI Design in Online Art Platforms," *International Journal of Human-Computer Interaction*, Vol. 36, No. 5, pp. 320–338, 2021. [Online]. Available: <https://doi.org/10.1080/10447318.2021.1878532>
- [12] P. Desai and S. Krishnan, "PHP and MySQL for Secure Web Development in Art Platforms," *Journal of Web Application Development*, Vol. 12, No. 1, pp. 65–78, 2018. [Online]. Available: <https://doi.org/10.1109/JWAD.2018.2987442>