AMAL JYOTHI
COLLEGE OF ENGINEERING
A U T O N O M O U S

ARTISTRY HUB

23MCA246 - Main Project

Scrum Master
BINUMON JOSEPH
Assistant Professor
Department of Computer Applications

Kamal Sankar M
AJC23MCA-2040
MCA2023-25 S4
https://github.com/Santakoska
kamalsankarm2025@mca.ajce.in

**DEPARTMENT OF
COMPUTER APPLICATIONS**

ABSTRCT

ARTISTRY HUB
Main Project

Artistry Hub is an advanced extension of our mini project, designed to integrate multiple user roles — Artists, Students, and Institutions — into a dynamic platform that promotes creative collaboration, learning, and interaction. Building on the foundation laid by the mini project, this main project incorporates cutting-edge technologies and advanced features to enhance user experience, security, and functionality.

Key Enhancements:

1. **Robust Security Framework**

   o Implements **post-quantum cryptography** with Argon2 for secure password hashing.

   o Employs **Lattice-Based Cryptography (CRYSTALS-Kyber)** for secure storage and authentication of biometric data.

2. **Institution Module**

   o **New user role:** Institutions can post events and job opportunities.

   o Facilitates direct applications from Artists and Students.

   o Supports links to external registration forms for a streamlined onboarding process.

3. **AI-Powered Instrument Service Assistant**

   o Integrated with **YouTube video suggestions** to provide resources and enhance engagement.

   o Designed to respond intelligently to user queries for a superior user experience.

4. **Automated Admin Module**

   o Uses **machine learning** and **AI** for hierarchical decision-making:

      ▪ **First-grade decisions:** Fully automated.

      ▪ **Second-grade decisions:** Require admin approval.

      ▪ **Third-grade decisions:** Handled manually by the admin.

   o Ensures efficient user management and content moderation.

5. **Live Learning Sessions**

   o Integrates the **Zoom API** for real-time interactive classes.

   o Enhances the educational aspect, fostering a collaborative and immersive learning environment.

DEPARTMENT OF COMPUTER APPLICATIONS

6. **Reporting and Profile Customization Features**

   o Introduces **report functionality** for posts, classes, and user profiles, ensuring better moderation and user safety.

   o Enhances **profile settings**, allowing users to customize their preferences and manage their accounts more effectively.

   o Implements **design improvements** across the entire platform for a more intuitive and user-friendly interface.