

MAIN PROJECT – ABSTRACT

ARTISTRY-HUB

Building on the foundation of the Artistry Hub mini project, the main project introduces significant expansions and enhancements to the platform to cater to a wider audience and improve user engagement. The following key features and improvements are proposed:

1. Institution User Module

A new user type, "Institution," will be added to the platform. This module enables institutions to:

- **Post Events and Jobs:** Institutions can create event listings and job opportunities, visible to Artists and Students.
- **Application System:** Artists and Students can apply for events or jobs directly through the platform.
- **External Links for Registration:** Institutions can include external links for detailed registrations or form submissions.
- **Dedicated Sections:** Both Artists and Students will have access to a new section in their dashboard to view and interact with institutional postings.

2. Enhancements to Existing Modules

Existing modules will undergo major improvements, including:

- **Live Classes:** A real-time learning feature will be integrated into the Learning platform, allowing educators to schedule and conduct live classes.
- **Class Scheduling:** A user-friendly scheduling system for live sessions, including notifications and calendar integration.

3. Post-Quantum Cryptography

To future-proof user data security, the project will implement Post-Quantum Cryptography (PQC) techniques for password encryption. This ensures robust protection against potential quantum computing threats.

4. Automated Admin Module

A new, AI-driven admin module will be introduced with a tiered decision-making structure:

- **First-Grade Responses:** Fully automated, using machine learning and AI to handle basic queries and actions.

- **Second-Grade Decisions:** Require human approval for sensitive or complex issues flagged by the AI.
- **Third-Grade Decisions:** Reserved for manual action by the admin team for critical matters.

5. Recommendation System

A recommendation engine will be implemented to:

- Suggest courses to users based on their previous interests and interactions.
- Recommend connections to users, enabling them to follow relevant artists, institutions, or students.

Additional Features

- **Improved User Experience:** Enhancements to the user interface for seamless navigation.
- **Performance Optimization:** Ensuring fast load times and scalable infrastructure for growing user activity.

This project aims to create a comprehensive and future-ready platform for the artistic community, addressing their evolving needs while leveraging the latest technologies for better engagement and security.