

**Art Gallery Management System**

The goal with our Art Gallery Management System is to develop a management system that catalogs artists, their works, information about the art gallery, exhibitions, and displays paintings' images for patron viewing.

**Objective:** The primary goal is to inform art enthusiasts about various exhibition details, including the artwork and artists, that are arranged by various organizations. Our system will make it easy for customers to get in touch with the artist to purchase their artwork. For administrators, artists, and customers, there is a login page.

**Database System Specifications:**

* **Users :**

The system is designed to cater to four main user categories with varying access levels: Admin, Staff, Artists, and Clients.

* Admin: The admin oversees the system's security and integrity, managing user accounts and permissions. They have access to all modules within the database.
* Staff: Staff members handle inventory management, exhibition organization, and customer data management, with limited sales transaction processing capabilities.
* Artists: Artists are granted control over their artwork details, including inventory status, revenue, and sales history, and can upload new artwork after authorization. They can also update personal information.
* Clients: Clients that log in with their accounts can view paintings or make purchases.
* **Access Levels of Users :**

Each user will be assigned their own level of access depending on the actions they perform on the database:

* Admin:
  + Add, modify, or remove user accounts and set appropriate permissions.
  + Access to all modules in the database.
  + Oversee system security and integrity.
* Staff:
  + Access to inventory management, to track artworks and update details.
  + Organize inventory and coordinate exhibition details.
  + Access to customer personal details.
  + Process sales transactions (Limited Permissions).
* Artists:
  + Allow management of their own artwork details, i.e., inventory status, revenue accumulated and sales history.
  + Upload new artwork after authorization.
  + Update personal information.
* Clients:
  + View paintings and sale status.
  + Make purchases after authorization.

For each artwork, the system records essential details such as title, artist, medium, dimensions, provenance, price, sales history, loan agreement, availability status, and past/upcoming exhibition records.

Necessary information for each exhibition includes exhibition name, chosen theme, dates and schedules, exhibition location, and a list of pieces displayed. Sales records include details of artworks sold, sale price, date of sale, and artist commission. Loan records encompass loan agreements, loan duration, loaned piece monitoring status, and tracking transport of loaned artwork.

Artist information includes name, phone number, email, address, social media profiles, artist signature style, and sales history, along with sales and commission details. This structured setup ensures comprehensive management of artwork, exhibitions, sales, loans, and artist information within the gallery database.