

Art Gallery System – Project Proposal

Group Members

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Project Idea

Our project is titled Art Gallery System. It is an online platform designed to connect artists with potential art buyers in a digital space. The system allows artists to upload their artworks and manage their profiles, while customers can browse, search, favorite, rate, and can place offers on artworks they like. In our system, artworks are not directly purchasable through fixed pricing. Instead, they are exclusively open for bidding during a limited countdown period. Customers can only submit their offers while the bidding window is active. Once the countdown ends, the artwork is automatically sold to the highest bidder. This offer-based sales model makes our platform unique. It creates a fun and competitive experience for customers and helps artists get a fair price for their work.

The goal is to create a transparent, interactive, and user-friendly environment for showcasing and purchasing art.

Based on the functional requirements, the following major features will be included in database:

- User registration and login for both customers and artists.
- Artist profiles and artwork management.
- Artwork listing with categories and image previews.
- Artwork search by name, artist, or category.
- Customer actions: rating, favoriting, and bidding on artworks.
- Automated sales to the highest bidder upon countdown completion.
- Real-time status updates for artworks: not for sale, open to sale, sold.
- A detailed logging system to track all user and system activities for security and analytics purposes.

The database will include the following key tables:

1. **Artists** – Stores information about registered artists and their profiles.
2. **Customers** – Stores data for regular users who can browse and buy art.
3. **Artworks** – Contains artwork details such as title, description, category, status, image, and associated artist.
4. **Favorites** – Tracks which customers have favorited which artworks.
5. **Ratings** – Allows customers to rate artworks on a scale.
6. **Offers** – Stores customer offers on open-for-sale artworks.
7. **Sales** – Records completed transactions, with buyer and sold price.
8. **Countdowns** – Manages the timing mechanism for artwork bidding windows.
9. **ActivityLogs** – Logs user actions such as login, offer placement, artwork views, and error reports.
10. **Shipping** - The shipping table is used to track the delivery process and status of artworks that have been sold.

