

## **Requirement of the Art & Artist Management System**

This project aims to create a relational database for an Art & Artist Management System that offers a comprehensive platform to catalog artworks, record artist profiles, detail exhibitions, store gallery information, and capture collector/buyer data. There will be a class to contains details of individual artists. There will be a class to represent the individual pieces of art in the system. There will be a class to represent the art exhibition and there will be a class to represent the art galleries that host exhibition. There will be a class to represent the enthusiasts or collectors for artworks.

### Rules of the database:

1. Each artwork has a unique Artwork ID
2. Every artist possesses a unique Artist ID
3. Artworks can belong to only one artist but an artist can create multiple artworks
4. Artworks can be part of multiple exhibitions
5. Each exhibition has a unique Exhibition ID
6. Galleries can host multiple exhibitions but each exhibition is happened at one gallery
7. Each gallery has a unique Gallery ID
8. Collector/buyer has unique Buyer ID and can one collector/buyer can make multiple purchases
9. Artworks can have different availability statuses (e.g., available, sold, reserved)
10. Each artist has a style (e.g., abstract, realism, impressionism)
11. Each artwork has a medium (e.g., painting, sculpture, digital)
12. Each artwork has dimensions to represent the size
13. Each artwork has a price for the collector to purchase
14. Each gallery has its location and contact detail
15. Each collector has a preference

### Business rules:

1. Before an artwork is added, the artist associated with the work must exist in the system
2. The availability of artwork must update once it is sold
3. An exhibition can't exist without at least one associated artwork
4. The collector/buyer's details must be recorded when the artwork is sold
5. Artists can participate in multiple exhibitions, but each participation must be recorded individually

### Nouns:

1. Artwork
2. Artist
3. Exhibition
4. Gallery
5. Collector/buyer
6. Medium
7. Style
8. Dimensions
9. Price
10. Location
11. Contact details
12. Preferences

Actions:

1. Belong to
2. Create
3. Exhibit
4. Host
5. Purchase
6. Collect
7. Possess
8. Happen
9. Update
10. Add
11. Sell
12. Participate