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A Project Report on

ART GALLERY MANAGEMENT SYSTEM

By

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ART GALLERY MANAGEMENT SYSTEM

Introducing our Java-based Art Gallery Management System (AGMS):

In today's digital age, the demand for automated systems in various industries is growing rapidly, and the art world is no exception. An **Art Gallery Management System** is a software application designed to simplify and automate the operations of an art gallery. It provides a centralized platform for managing artworks, artists, categories, customers, orders, and payments efficiently.

This system aims to bridge the gap between artists and art enthusiasts by offering a user-friendly interface for browsing, purchasing, and managing art pieces. It allows administrators to easily maintain records, track sales, and monitor gallery activities. By using technologies like **Java, Hibernate, JDBC, and MySQL**, the project ensures robust functionality, secure data handling, and smooth database interactions.

The purpose of this project is to create a reliable and scalable solution that enhances the management of art galleries while promoting digital transformation in the art sector.

Entities:

- Admin
- Art
- Artist
- Customer
- Category
- Order
- Payment

ATTRIBUTES OF ENTITIES:

1. Admin

- Attributes:
  - Admin_id (primary key)
  - Admin_name
  - Contact
  - Email
  - Password

2. Art

- Attributes:
  - Art_Id (primary key)
  - Type
  - Description

3. Artist

- ❖ Attributes:
- Artist_d (primary key)
- Category_Id (Foreign Key)
- Age
- Birthplace
- Style

4. Customers

- ❖ Attributes:
- Cust_Id (primary key)
- Name
- Contact
- Address

5. Category

- ❖ Attributes:
- Category_Id(primary key)
- Name

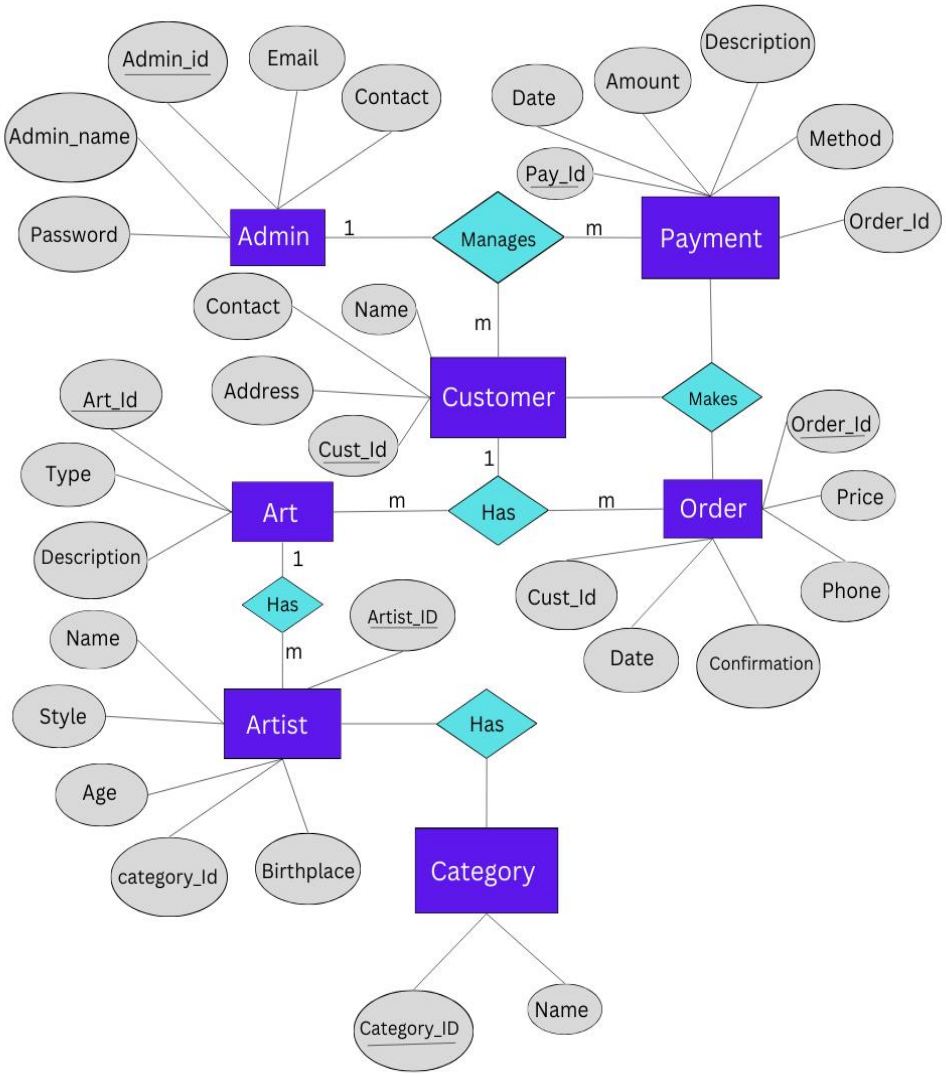
6. Orders

- ❖ Attributes:
- Order_Id (primary key)
- Confirmation
- Date
- Cust_Id(foreign key)
- Price
- Phone
-

7. Payment

- ❖ Attributes:
- Pay_Id(primary key)
- Amount
- Method
- Date
- Order_Id(foreign key)
- Description

ENTITY RELATIONSHIP DIAGRAM – ART GALLERY MANAGEMENT SYSTEM



CONCLUSION:

The Art Gallery Management System has been successfully developed to streamline and digitalize the operations of an art gallery. This system offers a robust platform to manage artists, customers, artworks, categories, orders, and payments efficiently. By integrating technologies like Java, Hibernate, JDBC, and MySQL, the system ensures smooth data handling, secure transactions, and a user-friendly interface. This project not only enhances accessibility for art enthusiasts and buyers but also provides a structured backend for administrators to maintain records and monitor gallery activities. The relational database design and the use of object-oriented principles help ensure scalability and maintainability of the application. Overall, the Art Gallery Management System serves as a practical and effective solution to modernize gallery operations, promote artists' work, and improve user engagement in the digital era.

DATABASE CREATION QUERY:

```
mysql> use artgallery;
Database changed
mysql> CREATE TABLE Admin (
    ->      Admin_id VARCHAR(15) PRIMARY KEY,
    ->      Admin_name VARCHAR(50),
    ->      Password VARCHAR(50),
    ->      Email VARCHAR(100),
    ->      Contact VARCHAR(15) );
Query OK, 0 rows affected (0.08 sec)

mysql>  CREATE TABLE Customer (
    ->       Cust_Id VARCHAR(15) PRIMARY KEY,
    ->       Name VARCHAR(50),
    ->       Contact VARCHAR(15),
    ->       Address VARCHAR(255)
    ->     );
Query OK, 0 rows affected (0.03 sec)

mysql>  CREATE TABLE Category (
    ->      Category_ID VARCHAR(15) PRIMARY KEY,
    ->       Name VARCHAR(50)
    ->     );
Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE Artist (
    ->      Artist_ID VARCHAR(15) PRIMARY KEY,
    ->      Name VARCHAR(50),
    ->      Birthplace VARCHAR(100),
    ->      Age INT,
    ->      Category_Id varchar(15),
```

```
    ->      FOREIGN KEY (Category_Id) REFERENCES Category(Category_ID)
    ->  );
Query OK, 0 rows affected (0.07 sec)

mysql> CREATE TABLE Art (
    ->      Art_Id VARCHAR(15) PRIMARY KEY,
    ->      Name VARCHAR(50),
    ->      Type VARCHAR(50),
    ->      Description TEXT,
    ->      Style VARCHAR(50),
    ->      Category_Id VARCHAR(15),
    ->      Artist_ID VARCHAR(15),
    ->      FOREIGN KEY (Category_Id) REFERENCES Category(Category_ID),
    ->      FOREIGN KEY (Artist_ID) REFERENCES Artist(Artist_ID)
    ->  );
Query OK, 0 rows affected (0.10 sec)

mysql> CREATE TABLE Orders (
    ->      Order_Id VARCHAR(15) PRIMARY KEY,
    ->       Cust_Id VARCHAR(15),
    ->       Date DATE,
    ->       Price DECIMAL(10,2),
    ->       Phone VARCHAR(15),
    ->       Confirmation VARCHAR(50),
    ->       FOREIGN KEY (Cust_Id) REFERENCES Customer(Cust_Id)
    ->  );
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE TABLE Payment (
    ->         Pay_Id VARCHAR(15) PRIMARY KEY,
    ->         Amount DECIMAL(10,2),
    ->         Date DATE,
    ->         Description TEXT,
    ->         Method VARCHAR(50),
    ->         Order_Id VARCHAR(15),
    ->         FOREIGN KEY (Order_Id) REFERENCES Orders(Order_Id)
    ->     );
Query OK, 0 rows affected (0.06 sec)


mysql> show tables;
+-------------------------+
| Tables_in_artgallerymng |
+-------------------------+
| admin                   |
| art                     |
| artist                  |
| category                |
| customer                |
| orders                  |
| payment                 |
+-------------------------+
7 rows in set (0.00 sec)
```