

# **ONLINE ART GALLERY**

A Mini Project

Report submitted by

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**To**

The APJ Abdul Kalam Technological University

In partial fulfillment of the requirements for the award of the

Degree of

Master of Computer Applications



**Department of Computer Applications**

KMCT Institute of technology and management

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## DECLARATION

I undersigned hereby declare that the project report **ONLINE ART GALLERY**, submitted for partial fulfilment of the requirements for the award of degree of Master of Computer Applications of the APJ Abdul Kalam Technological University, Kerala, is a bona fide work done by me under supervision of Supervisor, Assistant Professor, Department of Computer Applications. This submission represents my ideas in my own words and where ideas or words of others have been included. I have adequately and accurately cited and referenced the original sources. I also declare that I have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. I understand that any violation of the above will be a cause for disciplinary action by the institute and/or the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for the award of any degree, diploma or similar title of any other University

Place:Kuttiapuram

Date: 23/10/2025

**DEPARTMENT OF COMPUTER APPLICATIONS**  
**KMCT INSTITUTE OF TECHNOLOGY AND MANAGEMENT**  
**KUTTIPURAM**



**CERTIFICATE**

This is to certify that the report entitled **ONLINE ART GALLERY** is a bona fide record of the Mini Project work during the year 2025-26 carried out by **APARNA C (KITM24MCA-2002)** submitted to the APJ Abdul Kalam Technological University, in partial fulfillment of the requirements for the award of the Master of Computer Applications, under my guidance and supervision. This report in any form has not been submitted to any other University or Institution for any purpose.

Internal Supervisor(s)

External Supervisor(s)

Head of The Department

## **ACKNOWLEDGEMENT**

At the very outset I would like to thank the almighty's mercy towards me over the years. I wish to express my sincere thanks to my project coordinator, Ms. LAKSHMI R MENON Head of the dept, Dept. of Master of Computer Applications who guided me for the successful completeness of this project. I also thank her for valuable suggestions, guidance, constant encouragement, boundless corporation, constructive comments and motivation extended to me for completion of this project work.

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## **ABSTRACT**

This project focuses on developing a responsive online art gallery platform designed to connect artists and art enthusiasts in a modern digital environment. The platform allows artists to create personalized profiles, upload and manage their artworks, and list them for sale, thereby expanding their reach beyond traditional exhibitions. Buyers can register, browse, and purchase artworks through a seamless and secure interface that promotes easy navigation and accessibility across all devices. The system also incorporates an admin panel that facilitates moderation, reporting, and maintenance of platform integrity, ensuring authenticity and a smooth user experience. Artists can manage inventory, update artwork details, and interact with potential buyers, while customers can filter artworks based on categories, price, or artist, making the search process efficient and engaging. By integrating art management with e-commerce functionalities, the project aims to bridge the gap between traditional art exposure and the digital marketplace, empowering emerging and independent artists to gain global visibility. Simultaneously, it offers collectors and art lovers a streamlined, trustworthy, and interactive platform to discover and purchase unique creations. Ultimately, this system supports the growth of a vibrant online art community that celebrates creativity and accessibility in the digital age.

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# Chapter 1

## Introduction

This project focuses on creating an **Online Art Gallery Website** that provides a digital platform for artists to showcase their creative works to a global audience. Instead of relying on physical galleries, artists can conveniently upload their paintings, digital artworks, or other creative pieces to the website, making their art accessible to anyone with an internet connection. Art enthusiasts can easily browse through different collections, view artwork details, and purchase their favorite pieces securely online. The platform aims to promote emerging and independent artists by giving them a space to display and sell their art while offering buyers a simple, engaging, and convenient way to explore and own unique artworks from around the world.

## 1.1 Background

### 1.1.1 ONLINE ART GALLERY

The platform helps artists manage their collections, and it gives users a smooth browsing and buying experience. It includes features like signing up, uploading artworks, placing orders, and admin control to keep everything running smoothly. The main goal is to make it easier for artists to get noticed and for people to discover and enjoy new art—anytime, anywhere.

## 1.2 Components

The Online Art Gallery system is built with three main components: User Components, System Components, and Database Components. User components include modules for artists (uploading and managing artworks), buyers (browsing, purchasing, and reviewing), and admins (managing users, artworks, and reports). System components handle authentication, artwork management, order and payment processing, and review moderation, ensuring smooth interaction between users and the platform. Database components store essential data such as user details, artworks, orders, and reviews. Together, these components provide a seamless platform for showcasing, discovering, and purchasing art online.



### 1.3 Motivation

- Run on any operating system: - browser based application can be run on any computer which have fully functional browser. This cannot be adaptable for limited browser fictionalized devices( smart phone, PDAs)
- No installation of client:-browser based applications do not need installation they only communicate through browser

### 1.4 Objective

- To provide a user-friendly platform for artists to showcase and sell their artwork online
- To make art accessible to a global audience regardless of location or time.
- To support emerging and independent artists in reaching a broader customer base.
- To simplify the process of discovering and purchasing art for users.
- To offer an admin interface for monitoring, managing, and moderating platform activities.
- To bridge the gap between traditional art exposure and modern digital interaction

### 1.5 Contribution

This project contributes by providing a digital platform that bridges the gap between traditional art exhibitions and modern online accessibility. It empowers artists to showcase and sell their artworks without geographical limitations, while offering buyers an easy and convenient way to discover and purchase art. The system also assists administrators in efficiently managing users, artworks, and transactions, ensuring smooth operations. By combining user-friendly design, secure access, and efficient management tools, the Online Art Gallery makes art more accessible, supports emerging artists, and promotes cultural exchange on a global scale.

## 1.6 Report Organisation

The project report for **Online Art Gallery website** is organized into five main sections for clarity and systematic presentation. **Section 1** includes the introduction, background, components, motivation, objectives, contributions, and report organization. **Section 2** describes the existing system and its limitations. **Section 3** covers the methodology, including workflow, user stories, product backlog, and project plan. **Section 4** focuses on system design, presenting the results, data flow diagrams (DFD), entity-relationship (ER) diagrams, and database tables. **Section 5** concludes the report with the conclusion, references, and an appendix containing the source code. This structure ensures a logical flow from problem identification to system implementation and evaluation.

## Chapter 2

### Existing System

Several online platforms already exist that allow artists to display and sell their artworks digitally. These include popular websites like . They provide a marketplace where artists can upload images of their work, set prices, and connect with global buyers. Buyers can browse by category, price, or style, and make purchases directly through integrated payment systems.

However, these existing online gallery systems also have limitations:

- **High commission fee**
- **Over crowded Market place**
- **Limited personalization**
- **Focus on commercial sales**
- **Dependence on Third-party rules**

## Chapter 3

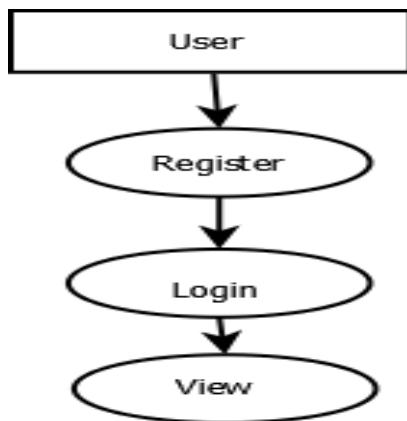
### Methodology

#### 3.1 Introduction

The Online Art Gallery is a digital platform developed to provide artists with an easy and affordable way to showcase their artwork to a global audience. Unlike traditional galleries, which are limited by location, time, and cost, this system enables artists to upload their creations online, while buyers can conveniently browse, search, and purchase artworks anytime, anywhere. The platform also includes an admin interface for managing users, artworks, and transactions, ensuring smooth operation. The methodology followed in building this project was systematic and step-by-step. First, the requirements were analyzed from the perspective of artists, buyers, and administrators to understand the functional and non-functional needs.

#### 3.1 Workflow

In the Online Art Gallery, artists and buyers first register and log in to the platform. Artists can upload and manage their artworks, while buyers can browse, search, and add artworks to the cart for purchase. Admins monitor the system, approve artworks, manage users, and generate reports. When a buyer places an order, the system updates the database, notifies the artist, and confirms the purchase to the buyer. All interactions are stored securely in the database, ensuring smooth operation and seamless communication between artists, buyers, and administrators..



### 3.3 User Story

User Story id	AS A<TYPE OF USER>	I WANT TO	SO THAT I CAN
1	Artist	Create an account and log in securely	I can access my private dashboard and manage my listings.
2	Artist	Upload an artwork image along with its title, description, price, and category	Art lovers can view and purchase my new creation on the gallery site.
3	Artist	View a dashboard of all my current listings	I can quickly check which pieces are active and available for sale.
4	Artist	Edit the price and description of an existing artwork	I can adjust my listing details based on market feedback or sales strategy.
5	Artist	Mark an artwork as "Sold" or "Inactive"	Buyers know its current availability status and I don't receive new inquiries for it.
6	Artist	View a list of all successful sales and pending orders for my art	I can track my income and fulfill orders promptly.
7	Artist	Receive notifications when one of my artworks is sold	I can be instantly informed and start the shipping process.
8	Buyer	Browse all available artwork in a visually appealing gallery format	I can easily discover new pieces without needing specific search terms.
9	Buyer	Search for art by title, artist name, or description keyword	I can quickly find a specific piece or style I'm interested in.
10	Buyer	Filter the gallery by price range, category (e.g., painting, digital, sculpture), and style	I can narrow down the selection to pieces that meet my specific criteria and budget.

11	Buyer	Click on an artwork to see a detailed view, including high-resolution images, full description, and artist bio	I can make an informed decision before purchasing.
12	Buyer	Add an artwork to my shopping cart	I can reserve a piece temporarily while I continue browsing.
13	Buyer	Proceed to a secure checkout process with mock payment integration	I can complete my purchase efficiently and confidently.
14	Buyer	Leave a rating and written review on a piece I have purchased	I can provide feedback to the artist and help other buyers make decisions.
15	Admin	View and manage all registered user accounts (both artists and buyers)	I can ensure platform security and address any account issues.
16	Admin	Delete or unpublish offensive or inappropriate reviews and comments	I can ensure a positive and respectful community environment.
17	Admin	Generate sales reports based on artist, category, and time period	I can monitor the platform's performance and identify trends.
18	Admin	View a log of recent user activity and system errors	I can quickly diagnose and resolve technical issues.

### 3.4 Product Backlog

ID	PRIORITY	SIZE(HOURS)	SPRINT	STATUS	NAME
1	Medium	5	1	Planned	Registration
2	Medium	5	1	Planned	Login
3	High	10	2	Partially Completed	Table Design
4	High	15	3	Planned	Coding
5	Medium	10	4	Planned	Testing Data
6	High	5	5	Planned	Output generation

### 3.5.Project Plan

USER STORY ID	SPRINT	START DATE	END DATE	HOURS	STATUS
1,3,4,9	Sprint 1	1/07/25	18/07/25	11	Complete
10,11,12,8	Sprint 2	23/07/25	30/07/25	5	Complete
2,6,7,14	Sprint 3	01/08/25	24/10/25	14	Complete
13,12,18	Sprint 4	09/09/25	26/10/25	12	Complete
5,15,16,17	Sprint 5	03/10/25	24/10/25	14	Complete

## 3.5 Sprint Backlog

### Sprint 1:

Backlog item	Status and completion date	Original estimate in hours	Day 1 01/07	Day 2 02/07	Day 3 04/07	Day 4 08/07	Day 5 11/07	Day 6 15/07	Day 7 16/07	Day 8 18/07
Form Design	02/07	2	2	0	0	0	0	0	0	0
Table Design	04/07	3	0	1	1	1	0	0	0	0
Coding	08/07	6	0	0	0	0	2	1	1	2
Testing & validation	08/07	2	0	0	0	0	0	0	0	0
Total		13	2	1	1	1	2	1	1	2

### Sprint 2:

Backlog item	Status and completion date	Original estimate in hours	Day 1 23/07	Day 2 25/07	Day 3 29/07	Day 4 30/07
Testing & validation	29/07	3	1	1	0	1
Coding	30/07	6	2	1	1	2
Total		9	3	2	1	3



### Sprint 3:

Backlog item	Status and completion date	Original estimate in hours	Day 1 01/08	Day 2 05/08	Day 3 06/08	Day 4 08/08	Day 5 12/08	Day 6 13/08	Day 7 19/08	Day 8 20/08	Day 9 22/08	Day 10 26/08	Day 11 27/08
Form Design	1/08	3	2	0	0	0	0	0	0	0	0	1	0
Table Design	6/08	3	0	1	1	1	0	0	0	0	0	0	0
Coding	26/08	6	0	0	0	0	2	1	1	2	0	0	0
Testing & validation	25/08	3	0	0	0	0	0	1	0	0	1	0	1
Total		15	2	1	1	1	1	2	1	2	1	1	1

### Sprint 4:

Backlog item	Status and completion date	Original estimate in hours	Day 1 09/09	Day 2 10/09	Day 3 12/09	Day 4 16/09	Day 5 17/09	Day 6 19/09	Day 7 23/09	Day 8 24/09	Day 9 22/08	Day 10 26/09
Form Design	10/09	3	2	0	0	0	0	0	0	0	0	1
Coding	26/09	6	0	0	0	0	2	1	1	2	0	0
Testing & validation	26/09	3	0	0	0	0	0	1	0	0	1	0
Total		15	2	1	1	1	1	2	1	2	1	1

## Sprint 5:

Backlog item	Status and completion date	Original estimate in hours	Day 1 03/10	Day 2 07/10	Day 3 08/10	Day 4 10/10	Day 5 14/10	Day 6 15/10	Day 7 17/10	Day 8 12/10	Day 9 22/10	Day 10 24/10
Form Design	03/10	3	2	0	0	0	0	0	0	0	0	1
Table Design	08/10	3	0	1	1	1	0	0	0	0	0	0
Coding	24/10	6	0	0	0	0	2	1	1	2	0	0
Testing & validation	24/10	3	0	0	0	0	0	1	0	0	1	0
Total		15	2	1	1	1	1	2	1	2	1	1

### Sprint Backlog Actual 1:

Backlog item	Status and completion date	Original estimate in hours	Day 1 01/07	Day 2 02/07	Day 3 04/07	Day 4 08/07	Day 5 11/07	Day 6 15/07	Day 7 16/07	Day 8 18/07
Form Design	02/07	2	2	0	0	0	0	0	0	0
Table Design	04/07	3	0	1	1	1	0	0	0	0
Coding	08/07	6	0	0	0	0	2	1	1	2
Testing & validation	08/07	2	0	0	0	0	0	0	0	0
Total		13	2	1	1	1	2	1	1	2

### Sprint Backlog Actual 2:

Backlog item	Status and completion date	Original estimate in hours	Day 1 23/07	Day 2 25/07	Day 3 29/07	Day 4 30/07
Testing & validation	29/07	3	1	1	0	1
Coding	30/07	6	2	1	1	2
Total		9	3	2	1	3

### Sprint Backlog Actual 3:

Backlog item	Status and completion date	Original estimate in hours	Day 1 01/08	Day 2 05/08	Day 3 06/08	Day 4 08/08	Day 5 12/08	Day 6 13/08	Day 7 19/08	Day 8 20/08	Day 9 22/08	Day 10 26/08	Day 11 27/08
Form Design	1/08	3	2	0	0	0	0	0	0	0	0	1	0
Table Design	6/08	3	0	1	1	1	0	0	0	0	0	0	0
Coding	26/08	6	0	0	0	0	2	1	1	2	0	0	0
Testing & validation	25/08	3	0	0	0	0	0	1	0	0	1	0	1
Total		15	2	1	1	1	1	2	1	2	1	1	1

### Sprint Backlog Actual 4:

Backlog item	Status and completion date	Original estimate in hours	Day 1 09/09	Day 2 10/09	Day 3 12/09	Day 4 16/09	Day 5 17/09	Day 6 19/09	Day 7 23/09	Day 8 24/09	Day 9 22/08	Day 10 26/09
Form Design	10/09	3	2	0	0	0	0	0	0	0	0	1
Coding	26/09	6	0	0	0	0	2	1	1	2	0	0
Testing & validation	26/09	3	0	0	0	0	0	1	0	0	1	0
Total		15	2	1	1	1	1	2	1	2	1	1

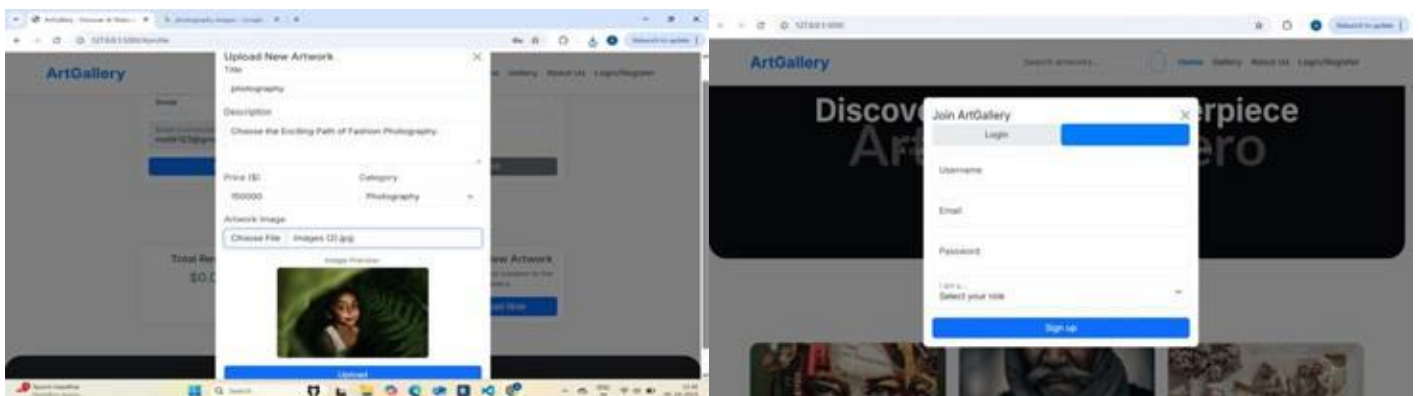
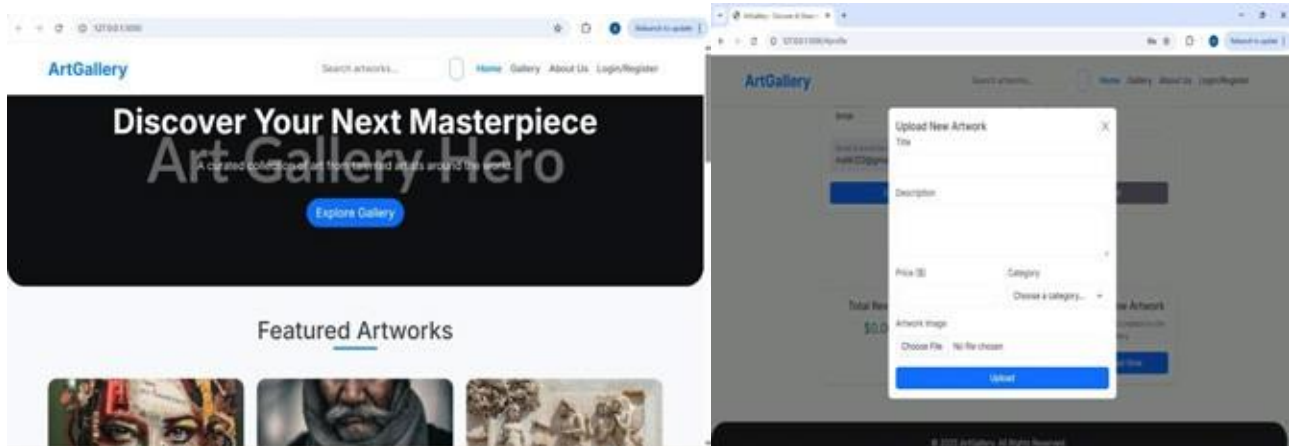
## Sprint Backlog Actual 5:

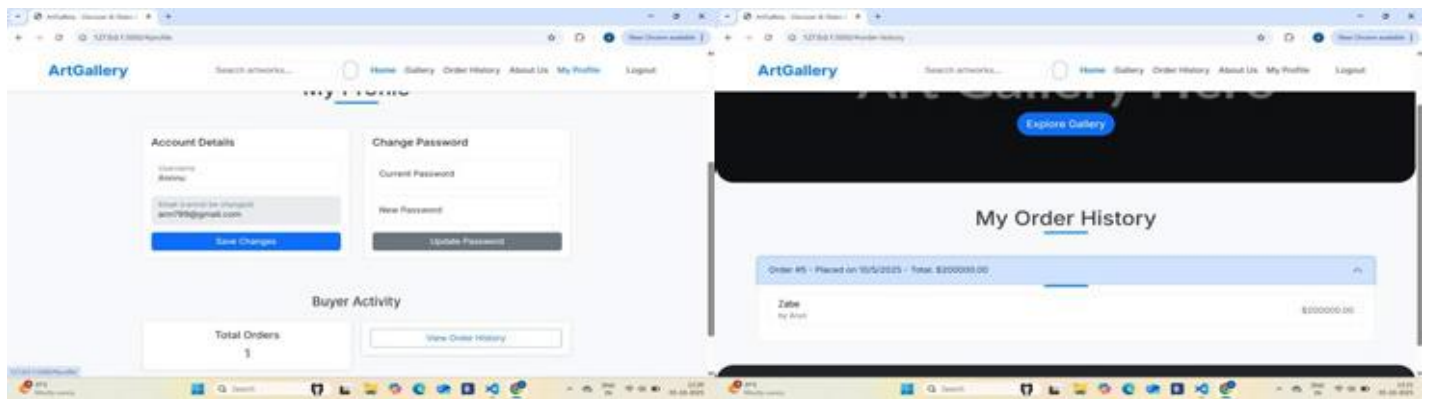
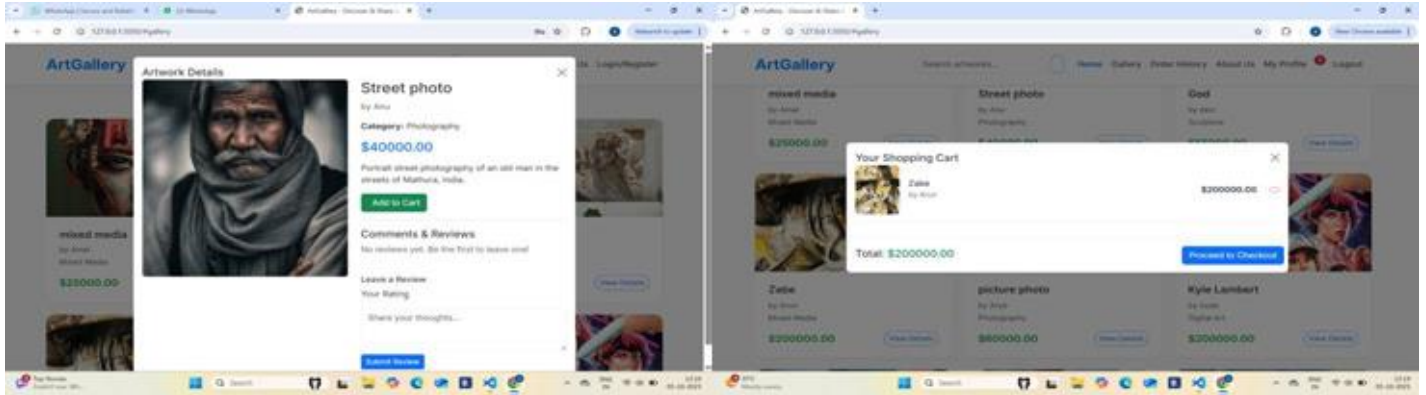
Backlog item	Status and completion date	Original estimate in hours	Day 1 03/10	Day 2 07/10	Day 3 08/10	Day 4 10/10	Day 5 14/10	Day 6 15/10	Day 7 17/10	Day 8 12/10	Day 9 22/10	Day 10 24/10
Form Design	03/10	3	2	0	0	0	0	0	0	0	0	1
Table Design	08/10	3	0	1	1	1	0	0	0	0	0	0
Coding	24/10	6	0	0	0	0	2	1	1	2	0	0
Testing & validation	24/10	3	0	0	0	0	0	1	0	0	1	0
Total		15	2	1	1	1	1	2	1	2	1	1

# Chapter 4

## Design

### 4.1 Result

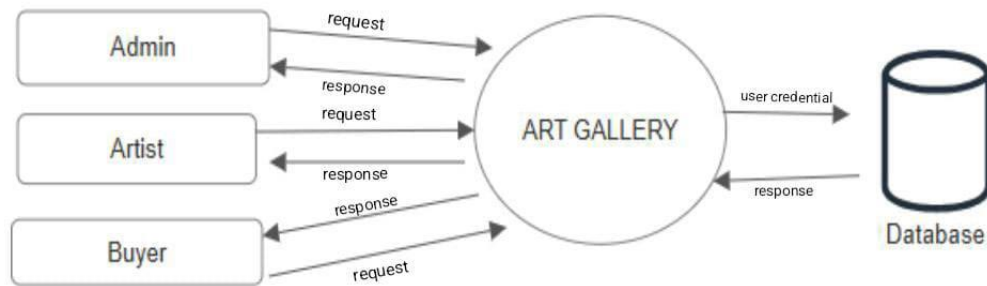




## 4.2 Data flow diagrams(DFD)

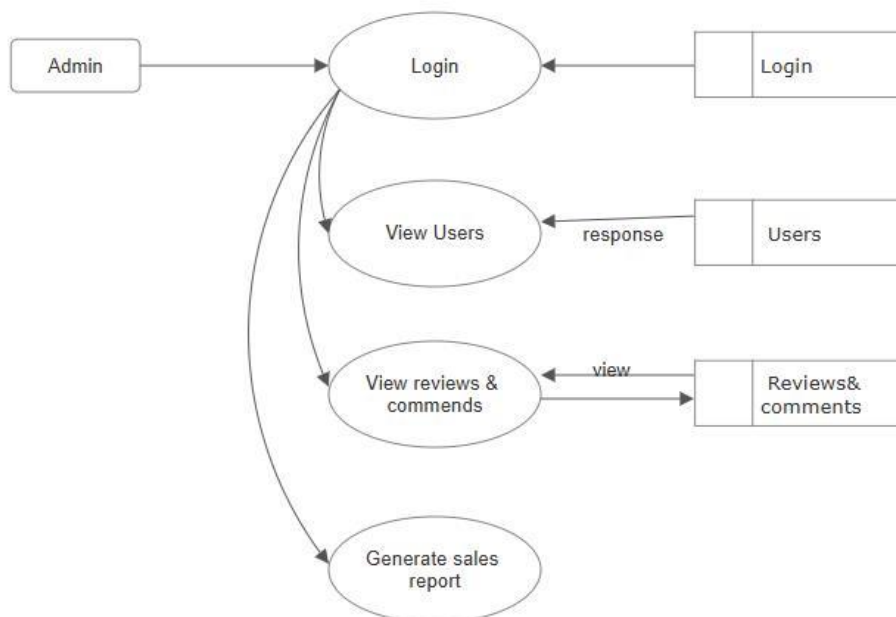
### Level 0

#### Level 0



### Level 1

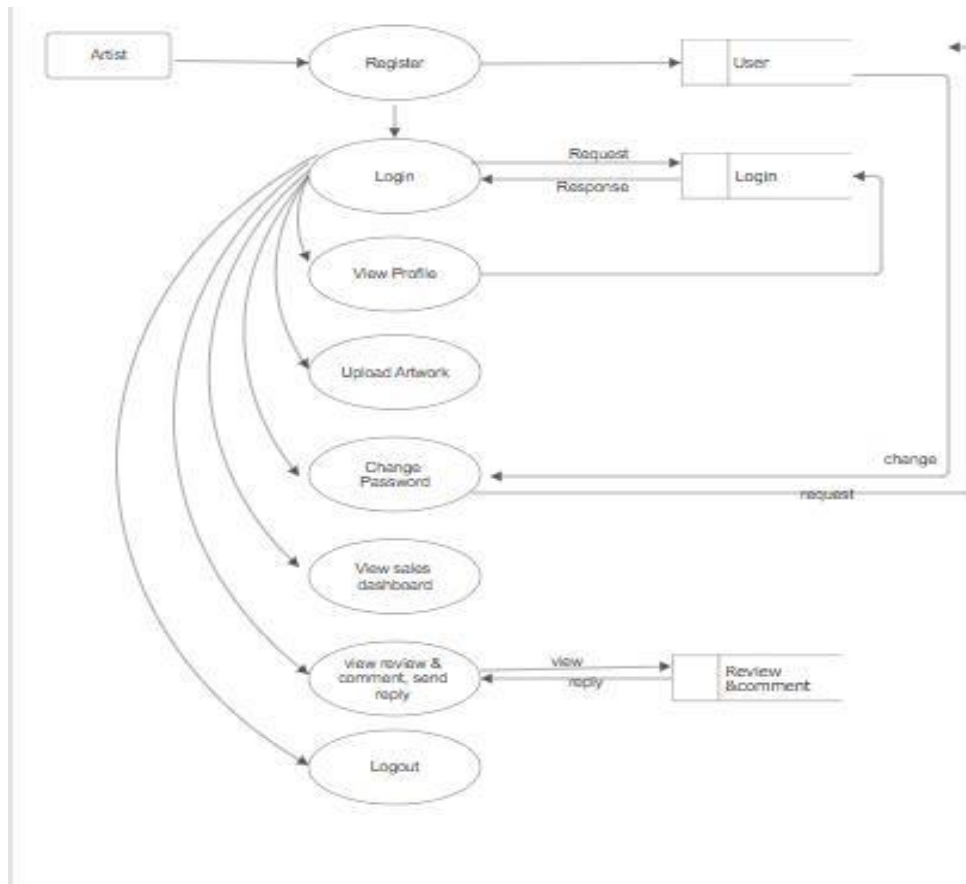
#### Admin





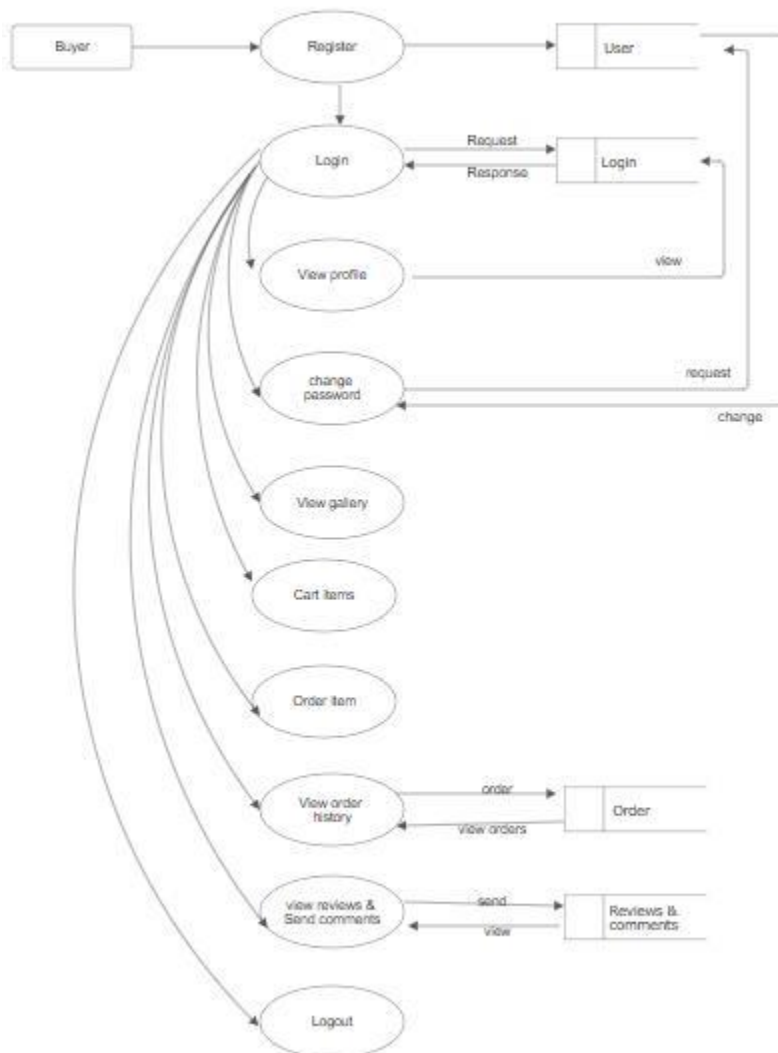
## Level 2

### Artist

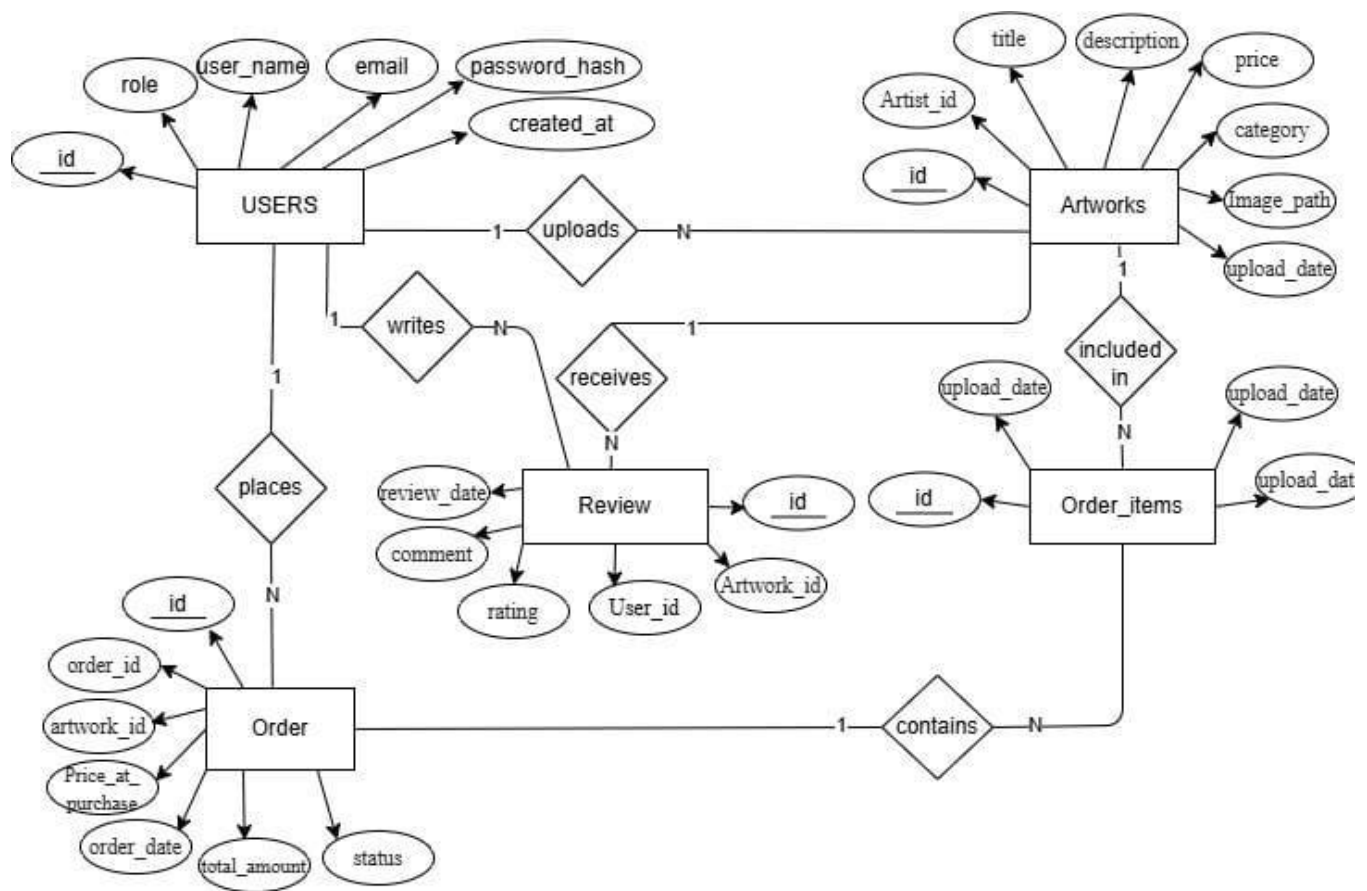


### Level 3

#### Buyer



## ER Diagram



## Tables

### Users

Field name	Data type	Constraints
id	Int	Primary key
Role	Varchar(20)	Not null
Username	Varchar(100)	Not null
email	Varchar(150)	Not null
Password_hash	Varchar(255)	Not null
Created_at	timestamp	Not null

### Artworks

Field name	Datatype	Constraints
id	Integer	Primary key
Artist_id	Integer	Not Null
title	Varchar	Not Null
description	text	Not Null
price	decimal	Not Null
category	Varchar(50)	Not Null
Image_path	Varchar(50)	Not Null
Upload_date	datetime	Not Null

## **Cart items**

Field name	Data type	Constraints
id	Integer	Primary key
User_id	Integer	Not Null
Artwork_id	Integer	Not Null
quantity	Integer	Not Null
Date_added	datetime	Not Null

## **Order items**

Field name	Data type	Constraints
id	Integer	Primary key
Order_id	Integer	Not Null
Artwork_id	Integer	Not Null
Price_at_purchase	Decimal	Not Null

## **Orders**

Field name	Data type	Constraints
id	Integer	Primary key
Order_id	Integer	Not Null
Artwork_id	Integer	Not Null
Price_at_purchase	Decimal	Not Null
Order_date	Decimal	Not null
Total_amount	Decimal	Foreign key
Status	Varchar(50)	Not null

## **Reviews**

Field name	Data type	Constraints
id	Integer	Primary key
Artwork_id	Integer	Not Null
User_id	Integer	Not Null
raing	Integer	Not Null
comment	Text	Not Null
Review_date	Datetime	Not Null

## Chapter 5

### Conclusion

The Online Art Gallery project successfully provides a digital platform for artists to showcase and sell their artworks to a global audience. By integrating user-friendly features for artists, buyers, and administrators, the system overcomes the limitations of traditional galleries and existing online marketplaces. Artists can upload and manage their artworks with ease, buyers can browse, purchase, and review art conveniently, and administrators can efficiently monitor and manage the platform. The use of modern web technologies like HTML, CSS, JavaScript, and Python Flask ensures a responsive and scalable system. Overall, the project bridges the gap between traditional art exposure and modern digital interaction, making art more accessible, promoting emerging artists, and creating a seamless experience for art enthusiasts worldwide.

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# Appendix

## Source Code

### Art.html

```
DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>ArtGallery - Discover & Share Art</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH" crossorigin="anonymous">
  <!-- Font Awesome for icons -->
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" integrity="sha512-
Fo3rlrZj/k7ujTnHg4CGR2D7kSs0V4LLanw2qksYuRLEzO+tcaEPQogQ0KaoGN26/zrn20ImR1DfuLWnOo7aBA==" crossorigin="anonymous"
referrerpolicy="no-referrer" />
  <!-- Custom CSS -->
  <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
  <!-- Google Fonts - Inter -->
  <link href="https://fonts.googleapis.com/css2?family=Inter:wght@300;400;500;600;700&display=swap" rel="stylesheet">
</head>
<body>

  <!-- Navigation Bar -->
  <nav class="navbar navbar-expand-lg navbar-light bg-light fixed-top shadow-sm">
    <div class="container">
      <a class="navbar-brand fw-bold" href="#home">ArtGallery</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-
expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <form class="d-flex ms-auto me-3" role="search" id="search-form">
          <!-- The form now submits to the server, causing a page reload with search results -->
          <input class="form-control me-2 rounded-pill" type="search" name="search" placeholder="Search artworks..." aria-label="Search"
id="search-input" value="{{ search_term or '' }}">
          <!-- The button is now a standard submit button -->
          <button class="btn btn-outline-primary rounded-pill" type="submit">
            <i class="fas fa-search"></i>
          </button>
        </form>
        <ul class="navbar-nav align-items-center">
          <li class="nav-item">
            <a class="nav-link active" aria-current="page" href="#home">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#gallery">Gallery</a>
          </li>
          <!-- Role-Specific Links -->
          <li class="nav-item" id="myArtworksNavLink" style="display: none;">
            <a class="nav-link" href="#my-artworks">My Artworks</a>
          </li>
          <li class="nav-item" id="orderHistoryNavLink" style="display: none;">
            <a class="nav-link" href="#order-history">Order History</a>
          </li>
          <li class="nav-item" id="salesDashboardNavLink" style="display: none;">
            <a class="nav-link" href="#sales-dashboard">Sales Dashboard</a>
          </li>
          <li class="nav-item" id="adminDashboardNavLink" style="display: none;">
            <a class="nav-link" href="/admin/dashboard">Admin Dashboard</a>
          </li>
          <!-- General Links -->
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        <li class="nav-item">
            <a class="nav-link" href="#about">About Us</a>
        </li>
        <!-- Auth & User Action Links -->
        <li class="nav-item" id="loginRegisterNavLink">
            <a class="nav-link" href="#" data-bs-toggle="modal" data-bs-target="#loginRegisterModal">Login/Register</a>
        </li>
        <li class="nav-item" id="profileNavLink" style="display: none;">
            <a class="nav-link" href="#profile">My Profile</a>
        </li>
        <li class="nav-item" id="cartNavLink" style="display: none;">
            <a class="nav-link position-relative" href="#" data-bs-toggle="modal" data-bs-target="#cartModal">
                <i class="fas fa-shopping-cart"></i>
                <span id="cart-badge" class="position-absolute top-0 start-100 translate-middle badge rounded-pill bg-danger" style="display:
none;"></span>
            </a>
        </li>
        <li class="nav-item" id="uploadArtworkNavLink" style="display: none;">
            <a class="nav-link btn btn-primary text-white rounded-pill px-3 ms-2" href="#" data-bs-toggle="modal" data-bs-
target="#uploadArtworkModal">Upload Artwork</a>
        </li>
        <li class="nav-item" id="logoutNavLink" style="display: none;">
            <a class="nav-link btn btn-outline-danger rounded-pill px-3 ms-2" href="#">Logout</a>
        </li>
    </ul>
</div>
</div>
</nav>

<!-- Hero Section -->
<section id="home" class="hero-section text-center text-white d-flex align-items-center justify-content-center">
    <div class="container">
        <h1 class="display-4 fw-bold">Discover Your Next Masterpiece</h1>
        <p class="lead">A curated collection of art from talented artists around the world.</p>
        <a href="#gallery" class="btn btn-primary btn-lg rounded-pill">Explore Gallery</a>
    </div>
</section>

<!-- Gallery Section -->
<section id="gallery" class="py-5">
    <div class="container">
        <h2 id="gallery-title" class="text-center mb-5">Featured Artworks</h2>
        <!-- The container is now populated by the server using Jinja2 -->
        <div id="artworks-container" class="row row-cols-1 row-cols-md-2 row-cols-lg-3 g-4">
            {% if artworks %}
                {% for artwork in artworks %}
                    <div class="col artwork-card">
                        <div class="card h-100 shadow-sm" data-id="{{ artwork.id }}">
                            <!-- The image URL is now constructed on the server -->
                            
                            <div class="card-body d-flex flex-column">
                                <h5 class="card-title">{{ artwork.title }}</h5>
                                {% if artwork.artist %}
                                    <p class="card-text text-muted mb-1">by {{ artwork.artist.username }}</p>
                                {% endif %}
                                <p class="card-text text-muted mb-3">{{ artwork.category }}</p>
                                <div class="mt-auto d-flex justify-content-between align-items-center">
                                    <!-- The price is formatted on the server -->
                                    <span class="artwork-price">${{ '%.2f'|format(artwork.price) }}</span>
                                    <!-- The "View Details" button still relies on JavaScript to open the modal -->
                                    <button class="btn btn-sm btn-outline-primary rounded-pill view-details-btn" data-id="{{ artwork.id }}">View
Details</button>
                                </div>
                            </div>
                        </div>
                    </div>
                {% endfor %}
            {% else %}
                <!-- This message is shown if no artworks are found -->
            </div>
    </div>

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        <div class="col-12 text-center py-5">
            <p class="text-muted fs-5">
                {% if search_term %}No artworks found for "{{ search_term }}".{% else %}No artworks found.{% endif %}
            </p>
        </div>
    {% endif %}
</div>
<div class="text-center mt-5">
    <button id="loadMoreBtn" class="btn btn-outline-secondary rounded-pill">Load More</button>
</div>
</div>
</section>

<!-- My Artworks Section (for artists) -->
<section id="my-artworks" class="py-5 bg-light" style="display: none;">
    <div class="container">
        <h2 class="text-center mb-5">My Uploaded Artworks</h2>
        <div id="my-artworks-container" class="row row-cols-1 row-cols-md-2 row-cols-lg-3 g-4">
            <!-- Artist's artworks will be injected here by JavaScript -->
        </div>
    </div>
</section>

<!-- Order History Section -->
<section id="order-history" class="py-5 bg-light" style="display: none;">
    <div class="container">
        <h2 class="text-center mb-5">My Order History</h2>
        <div id="order-history-container" class="accordion">
            <!-- Orders will be injected here as accordion items by JavaScript -->
        </div>
    </div>
</section>

<!-- Sales Dashboard Section (for artists) -->
<section id="sales-dashboard" class="py-5 bg-light" style="display: none;">
    <div class="container">
        <h2 class="text-center mb-5">My Sales Dashboard</h2>
        <div id="sales-dashboard-summary" class="row text-center mb-5">
            <!-- Summary cards will be injected here -->
        </div>
        <div id="sales-dashboard-container">
            <table class="table table-hover align-middle">
                <thead>
                    <!-- Header will be injected by JS -->
                </thead>
                <tbody>
                    <!-- Rows will be injected by JS -->
                </tbody>
            </table>
        </div>
    </div>
</section>

<!-- Reset Password Section -->
<section id="reset-password" class="py-5 bg-light" style="display: none;">
    <div class="container" style="max-width: 500px;">
        <h2 class="text-center mb-4">Reset Your Password</h2>
        <div class="card card-body shadow-sm">
            <form id="resetPasswordForm">
                <input type="hidden" id="resetTokenInput">
                <div class="form-floating mb-3">
                    <input type="password" class="form-control" id="resetNewPassword" placeholder="New Password" required>
                    <label for="resetNewPassword">New Password</label>
                </div>
                <button type="submit" class="btn btn-primary w-100">Reset Password</button>
            </form>
        </div>
    </div>
</section>

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<!-- Profile Section -->
<section id="profile" class="py-5 bg-light" style="display: none;">
  <div class="container" style="max-width: 800px;">
    <h2 class="text-center mb-5">My Profile</h2>
    <div class="row">
      <!-- Update Profile Details -->
      <div class="col-md-6 mb-4">
        <div class="card h-100">
          <div class="card-body">
            <h5 class="card-title mb-4">Account Details</h5>
            <form id="updateProfileForm">
              <div class="form-floating mb-3">
                <input type="text" class="form-control" id="profileUsername" placeholder="Username" required>
                <label for="profileUsername">Username</label>
              </div>
              <div class="form-floating mb-3">
                <input type="email" class="form-control" id="profileEmail" placeholder="Email" readonly disabled>
                <label for="profileEmail">Email (cannot be changed)</label>
              </div>
              <button type="submit" class="btn btn-primary w-100">Save Changes</button>
            </form>
          </div>
        </div>
      </div>
      <!-- Change Password -->
      <div class="col-md-6 mb-4">
        <div class="card h-100">
          <div class="card-body">
            <h5 class="card-title mb-4">Change Password</h5>
            <form id="changePasswordForm">
              <div class="form-floating mb-3"><input type="password" class="form-control" id="currentPassword"
placeholder="Current Password" required><label for="currentPassword">Current Password</label></div>
              <div class="form-floating mb-3"><input type="password" class="form-control" id="newPassword" placeholder="New
Password" required><label for="newPassword">New Password</label></div>
              <button type="submit" class="btn btn-secondary w-100">Update Password</button>
            </form>
          </div>
        </div>
      </div>
    </div>
    <!-- Role-Specific Content Area -->
    <div class="mt-5">
      <h4 id="role-specific-title" class="text-center mb-4" style="display: none;"></h4>
      <div id="role-specific-content" class="row justify-content-center g-3">
        <!-- Dynamic content for artists or buyers will be injected here by JavaScript -->
      </div>
    </div>
  </div>
</section>

<!-- About Us Section -->
<section id="about" class="bg-light py-5">
  <div class="container">
    <div class="row align-items-center">
      <div class="col-md-6">
        <h2>About ArtGallery</h2>
        <p>We are a passionate community dedicated to connecting art lovers with talented artists. Our platform provides a space for artists
to showcase their work and for collectors to discover unique pieces.</p>
        <p>From traditional paintings to modern digital art, ArtGallery is your gateway to a world of creativity and inspiration.</p>
      </div>
      <div class="col-md-6 text-center">
        
      </div>
    </div>
  </div>
</section>

<!-- Footer -->

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<footer class="bg-dark text-white text-center py-4">
  <div class="container">
    <p>&copy; 2025 ArtGallery. All Rights Reserved.</p>
  </div>
</footer>

<!-- Login/Register Modal -->
<div class="modal fade" id="loginRegisterModal" tabindex="-1" aria-labelledby="loginRegisterModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="loginRegisterModalLabel">Join ArtGallery</h5>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        <!-- Pills navs -->
        <ul class="nav nav-pills nav-justified mb-3" id="ex1" role="tablist">
          <li class="nav-item" role="presentation">
            <a class="nav-link active" id="pills-login-tab" data-bs-toggle="pill" href="#pills-login" role="tab" aria-controls="pills-login"
aria-selected="true">Login</a>
          </li>
          <li class="nav-item" role="presentation">
            <a class="nav-link" id="pills-register-tab" data-bs-toggle="pill" href="#pills-register" role="tab" aria-controls="pills-register"
aria-selected="false">Register</a>
          </li>
        </ul>
        <!-- Pills navs -->

        <!-- Pills content -->
        <div class="tab-content">
          <div class="tab-pane fade show active" id="pills-login" role="tabpanel" aria-labelledby="pills-login-tab">
            <form id="loginForm">
              <div class="form-floating mb-3">
                <input type="email" class="form-control" id="loginEmail" placeholder="name@example.com" required>
                <label for="loginEmail">Email address</label>
              </div>
              <div class="form-floating mb-3">
                <input type="password" class="form-control" id="loginPassword" placeholder="Password" required>
                <label for="loginPassword">Password</label>
              </div>
              <div class="text-center mb-3">
                <a href="#" id="forgotPasswordLink">Forgot password?</a>
              </div>
              <button type="submit" class="btn btn-primary w-100">Sign in</button>
            </form>
          </div>
          <div class="tab-pane fade" id="pills-forgot" role="tabpanel" aria-labelledby="pills-login-tab">
            <p class="text-center text-muted">Enter your email and we'll send you a link to reset your password.</p>
            <form id="forgotPasswordForm">
              <div class="form-floating mb-3">
                <input type="email" class="form-control" id="forgotEmail" placeholder="name@example.com" required>
                <label for="forgotEmail">Email address</label>
              </div>
              <div class="text-center mb-3">
                <a href="#" id="backToLoginLink">&larr; Back to Login</a>
              </div>
              <button type="submit" class="btn btn-primary w-100">Send Reset Link</button>
            </form>
          </div>
          <div class="tab-pane fade" id="pills-register" role="tabpanel" aria-labelledby="pills-register-tab">
            <form id="registerForm">
              <div class="form-floating mb-3">
                <input type="text" class="form-control" id="registerUsername" placeholder="Username" required>
                <label for="registerUsername">Username</label>
              </div>
              <div class="form-floating mb-3">
                <input type="email" class="form-control" id="registerEmail" placeholder="name@example.com" required>
                <label for="registerEmail">Email</label>
              </div>
              <div class="form-floating mb-3">

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        <input type="password" class="form-control" id="registerPassword" placeholder="Password" required>
        <label for="registerPassword">Password</label>
    </div>
    <div class="form-floating mb-3">
        <select class="form-select" id="registerRole" required>
            <option value="" selected disabled>Select your role</option>
            <option value="buyer">I'm here to discover and buy art (Buyer)</option>
            <option value="artist">I'm an artist looking to sell my work (Artist)</option>
        </select>
        <label for="registerRole">I am a...</label>
    </div>
    <button type="submit" class="btn btn-primary w-100">Sign up</button>
</form>
</div>
</div>
<!-- Pills content -->
</div>
</div>
</div>
</div>

<!-- Artwork Detail Modal -->
<div class="modal fade" id="artworkDetailModal" tabindex="-1" aria-labelledby="artworkDetailModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-lg modal-dialog-centered">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="artworkDetailModalLabel">Artwork Details</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
            </div>
            <div class="modal-body">
                <div class="row">
                    <div class="col-md-6">
                        <img id="detailArtworkImage" src="" class="img-fluid rounded" alt="">
                    </div>
                    <div class="col-md-6">
                        <h3 id="detailArtworkTitle"></h3>
                        <p class="text-muted">by <span id="detailArtworkArtist"></span></p>
                        <p><strong>Category:</strong> <span id="detailArtworkCategory"></span></p>
                        <h4 class="text-primary">${<span id="detailArtworkPrice"></span></h4>
                        <p id="detailArtworkDescription" class="mt-3"></p>
                        <div id="purchase-actions" style="display: none;">
                            <button id="addToCartBtn" class="btn btn-success"><i class="fas fa-cart-plus me-2"></i>Add to Cart</button>
                        </div>
                        <hr>
                        <h5>Comments & Reviews</h5>
                        <div id="reviews-container" class="mb-4" style="max-height: 250px; overflow-y: auto;">
                            <!-- Reviews will be loaded here by JavaScript -->
                        </div>

                        <!-- Review Submission Form (for logged-in users) -->
                        <div id="review-form-container" style="display: none;">
                            <h6>Leave a Review</h6>
                            <form id="review-form">
                                <input type="hidden" id="reviewArtworkId">
                                <div class="mb-2">
                                    <label class="form-label">Your Rating</label>
                                    <div class="star-rating">
                                        <i class="far fa-star" data-value="1"></i>
                                        <i class="far fa-star" data-value="2"></i>
                                        <i class="far fa-star" data-value="3"></i>
                                        <i class="far fa-star" data-value="4"></i>
                                        <i class="far fa-star" data-value="5"></i>
                                    </div>
                                </div>
                                <div>
                                    <textarea id="review-comment" class="form-control mb-2" rows="3" placeholder="Share your thoughts..."></textarea>
                                    <button type="submit" class="btn btn-primary btn-sm">Submit Review</button>
                                </div>
                            </form>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>

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    </div>
  </div>
</div>
</div>

<!-- Upload Artwork Modal -->
<div class="modal fade" id="uploadArtworkModal" tabindex="-1" aria-labelledby="uploadArtworkModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="uploadArtworkModalLabel">Upload New Artwork</h5>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        <form id="uploadForm">
          <div class="mb-3">
            <label for="uploadArtworkTitle" class="form-label">Title</label>
            <input type="text" class="form-control" id="uploadArtworkTitle" required>
          </div>
          <div class="mb-3">
            <label for="uploadArtworkDescription" class="form-label">Description</label>
            <textarea class="form-control" id="uploadArtworkDescription" rows="3"></textarea>
          </div>
          <div class="row">
            <div class="col-md-6 mb-3">
              <label for="uploadArtworkPrice" class="form-label">Price ($)</label>
              <input type="number" class="form-control" id="uploadArtworkPrice" step="0.01" min="0.01" required>
            </div>
            <div class="col-md-6 mb-3">
              <label for="uploadArtworkCategory" class="form-label">Category</label>
              <select class="form-select" id="uploadArtworkCategory" required>
                <option value="" selected disabled>Choose a category...</option>
                <option value="Painting">Painting</option>
                <option value="Digital Art">Digital Art</option>
                <option value="Photography">Photography</option>
                <option value="Sculpture">Sculpture</option>
                <option value="Mixed Media">Mixed Media</option>
              </select>
            </div>
          </div>
          <div class="mb-3">
            <label for="uploadArtworkImage" class="form-label">Artwork Image</label>
            <input class="form-control" type="file" id="uploadArtworkImage" accept="image/*" required>
            <!-- Image Preview Container -->
            <div id="imagePreviewContainer" class="mt-3 text-center" style="display: none;">
              <p class="small text-muted mb-1">Image Preview:</p>
              <img id="imagePreview" src="" class="img-fluid rounded" style="max-height: 200px;" alt="Image Preview">
            </div>
          </div>
          <button type="submit" class="btn btn-primary w-100">Upload</button>
        </form>
      </div>
    </div>
  </div>
</div>

<!-- Edit Artwork Modal -->
<div class="modal fade" id="editArtworkModal" tabindex="-1" aria-labelledby="editArtworkModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="editArtworkModalLabel">Edit Artwork Details</h5>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        <form id="editForm">
          <!-- Hidden input to store artwork ID -->
          <input type="hidden" id="editArtworkId">
          <div class="mb-3">
            <label for="editArtworkTitle" class="form-label">Title</label>

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        <input type="text" class="form-control" id="editArtworkTitle" required>
    </div>
    <div class="mb-3">
        <label for="editArtworkDescription" class="form-label">Description</label>
        <textarea class="form-control" id="editArtworkDescription" rows="3"></textarea>
    </div>
    <div class="row">
        <div class="col-md-6 mb-3">
            <label for="editArtworkPrice" class="form-label">Price ($)</label>
            <input type="number" class="form-control" id="editArtworkPrice" step="0.01" min="0.01" required>
        </div>
        <div class="col-md-6 mb-3">
            <label for="editArtworkCategory" class="form-label">Category</label>
            <select class="form-select" id="editArtworkCategory" required>
                <option value="Painting">Painting</option>
                <option value="Digital Art">Digital Art</option>
                <option value="Photography">Photography</option>
                <option value="Sculpture">Sculpture</option>
                <option value="Mixed Media">Mixed Media</option>
            </select>
        </div>
    </div>
    <button type="submit" class="btn btn-primary w-100">Save Changes</button>
</form>
</div>
</div>
</div>
</div>

<!-- Shopping Cart Modal -->
<div class="modal fade" id="cartModal" tabindex="-1" aria-labelledby="cartModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-lg modal-dialog-centered">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="cartModalLabel">Your Shopping Cart</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
            </div>
            <div class="modal-body" id="cart-body">
                <!-- Cart items will be injected here -->
            </div>
            <div class="modal-footer" id="cart-footer" style="display: none;">
                <div class="w-100 d-flex justify-content-between align-items-center">
                    <h5>Total: <span id="cart-total" class="text-success">$0.00</span></h5>
                    <button id="checkout-btn" class="btn btn-primary">Proceed to Checkout</button>
                </div>
            </div>
        </div>
    </div>
</div>
</div>

<!-- Bootstrap JS and Popper.js --><script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHhZ" crossorigin="anonymous"></script><!--
Custom JavaScript --><script src="{ url_for('static', filename='js/script.js') }"></script>
</body>
</html>

```