An Internship Project Seminar

On

Online Art Gallery Management System

Submitted to

Sreenidhi Institute of Science and Technology

In fulfilment of the academic requirements of

Summer Internship

By

Saikiran Bikumalla 17311A05Q2

Soma Sekhar Goud Addakula 17311A05R5

Under the Guidance of

Mr. Kalyan Anthati

Company Profile

NAME   : Cantilever Labs

ADDRESS   : Hyderabad, Telangana, India.

SIZE   : 100 Employees

TYPE   : Private

DIRECTOR   : Avanish Mundhra

Project Work Carried Out

PROJECT TITLE : ART GALLERY MANAGEMENT SYSTEM

SCOPE : To deploy the concept of art exhibition on an online platform, eliminating middlemen between the artists and the buyers.

APPLICATION OF PROJECT : Provides an online interface for the artists to exhibit and sell their paintings, and for the customers to view and buy paintings that they like.

CLIENTS OF PROJECT : Artists, Customers

MAN POWER SIZE : 2 Members

Abstract

In General, we visit a museum or an art gallery in person. If we find any painting of our interest, we need to contact the manager to know about all the payment procedure and then do the further process. Even, after all this, we might receive news that the painting is already booked or that you did not carry that much cash to the gallery. It is an advantage to the art lovers because the painting will be in your hands just in a click. The registering and visiting the gallery is a cakewalk and the customers will face no issues. This idea of online art gallery management will expedite the general process.

Briefly mentioning the requirements, the project is developed using Java mainly JSP's and Servlets. MySQL is used for Database. In simple words, our project is an open invitation for all the artists to display their works and also an opportunity for all the art lovers to buy their desired paintings. It bridges all the gaps between everyone and puts them on one platform.

Introduction

An Art Gallery is usually a display of an artist's work and the customers who are art enthusiasts would see the paintings and also buy if they like the paintings. Art Gallery Management System is an endeavor to bring conventional visiting museums or exhibitions to the online platform. The Project has four modules. The first one is User Management System where an artist, customer, and admin can log in. Everyone has to be given a fair chance to display their work and art, so an artist can log in to the website and upload his paintings. This is the work of artist module. On the other hand, there are a lot of people who are very much interested in art and loves admiring other's work and appreciate them. To fulfill this requirement customer module comes into play, any person can log in as a customer and see the paintings, if the painting influences and inspires them they can even buy it. To manage all this data admin is quintessential, thus the admin module is explained by this reason. Admin can manage the customer data, artist data, and also look at all the sales made. We have managed admin and customer modules.

Specification

Technical specification:

(a) Technologies used:

Language: Java servlets, Jsp, Html, Css

Database: Mysql Server: Apache Tomcat

(b) Requirement Analysis:

(i) Hardware requirements:

CPU : Intel i3 Processor or above

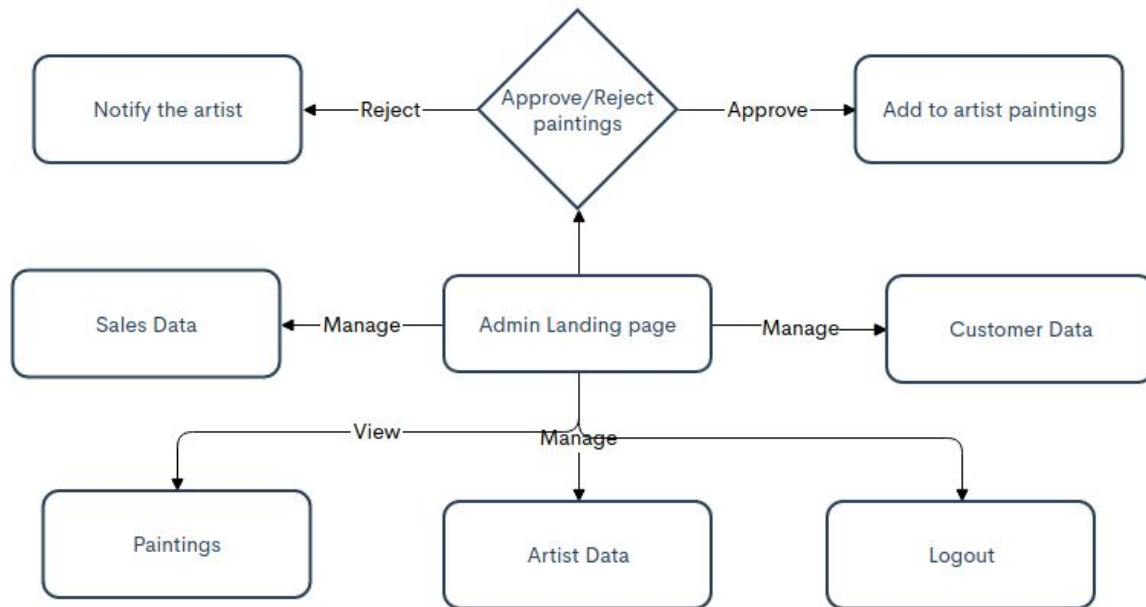RAM : 4 GB or above

HDD :40 GB

(ii) Software requirements:

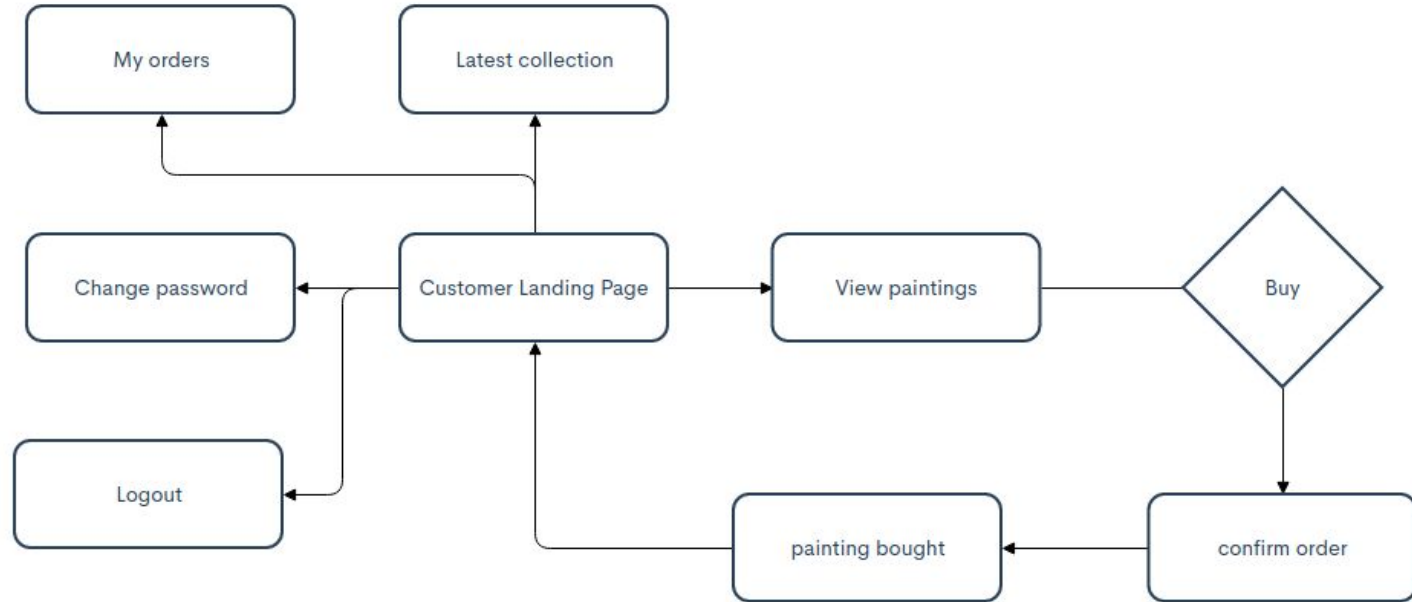Netbeans IDE or eclipse

Xampp (for MySQL)
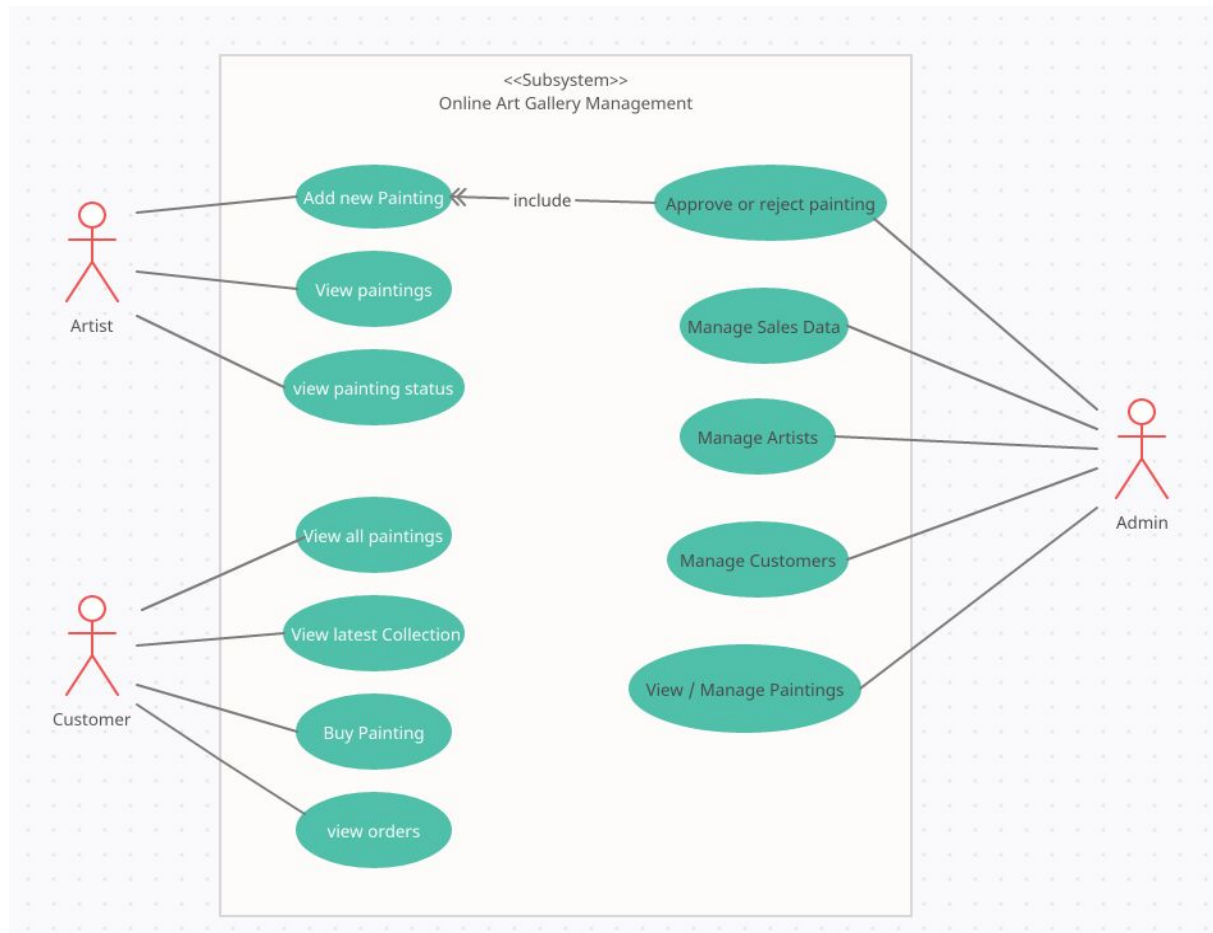
System Design

3.1 Modules and their flow diagram:

1. Admin Module:

2. Customer Module

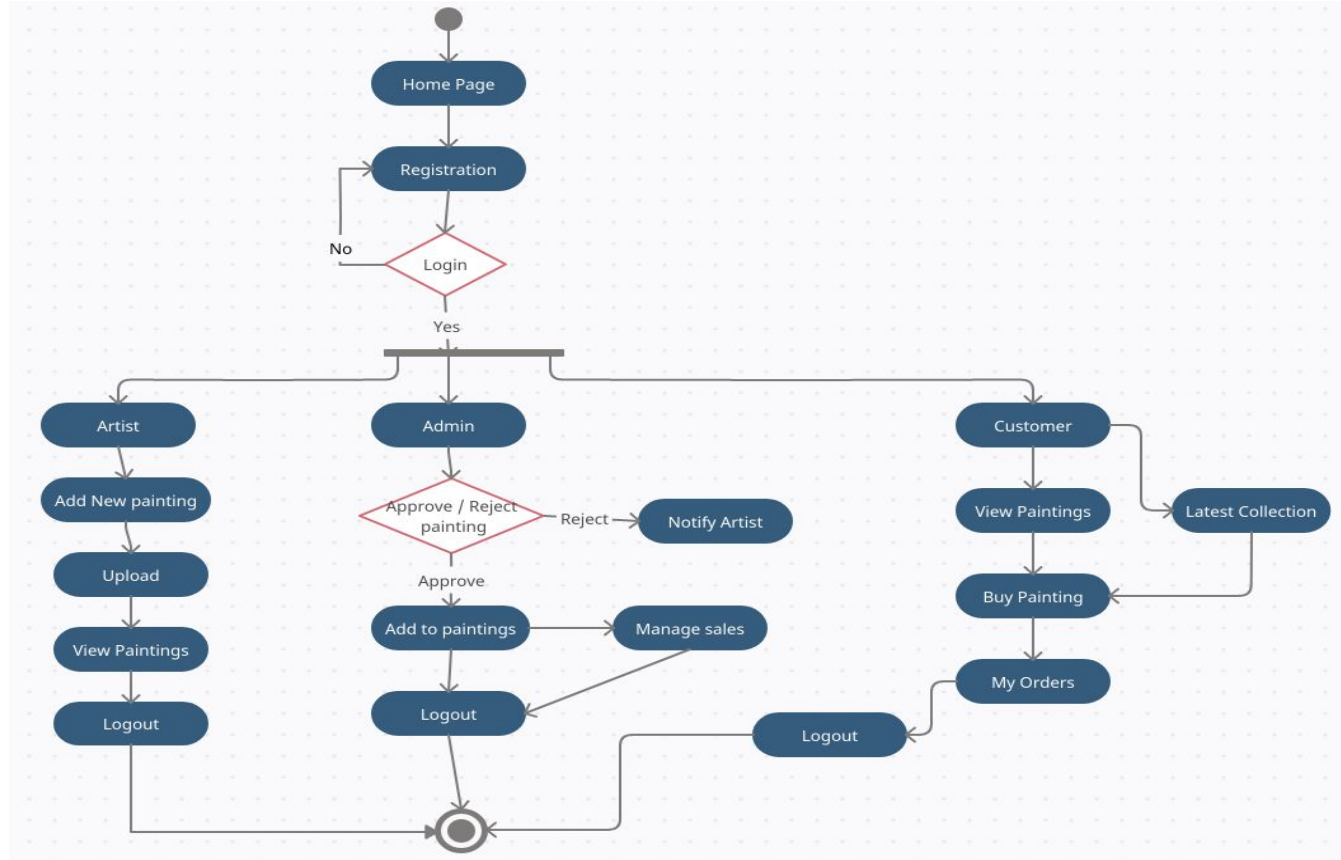# Use case Diagram

Class Diagram
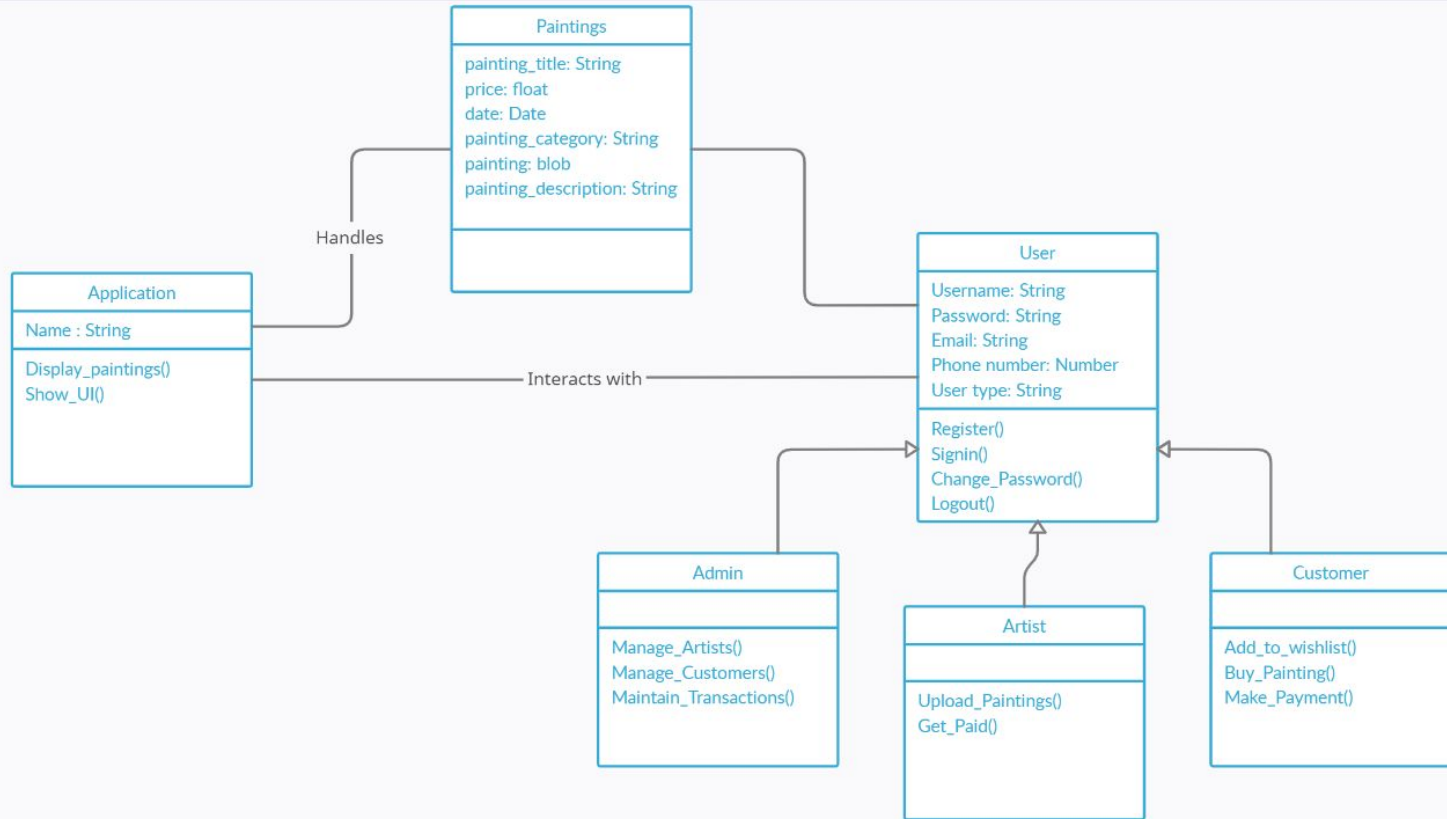
Activity Diagram

Sequence Diagram

Artist | Gallery | Database | Customer | Admin

Uploads Paintings

Updates the database

Updates the Website

Manages Artists and
Customers, Maintains
purchasing records
throughout the process

Views Gallery

Buy Paintings

Updates the database

Gets paid

Database Structure

Recent Favorites

- New
- artist
  - New
  - artist
  - register
  - sales
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
- user

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Tracking | Triggers

Table structure | Relation view

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	username 🔑	varchar(100)	utf8mb4_general_ci		No	None			🖉 Change ⊖ Drop ▾ More
☐	2	password	varchar(200)	utf8mb4_general_ci		No	None			🖉 Change ⊖ Drop ▾ More
☐	3	emailid	varchar(200)	utf8mb4_general_ci		No	None			🖉 Change ⊖ Drop ▾ More
☐	4	phonenumber	varchar(15)	utf8mb4_general_ci		No	None			🖉 Change ⊖ Drop ▾ More
☐	5	usertype	varchar(100)	utf8mb4_general_ci		No	None			🖉 Change ⊖ Drop ▾ More

↑ ☐ Check all   With selected: 🔲 Browse 🖉 Change ⊖ Drop 🔑 Primary 🔵 Unique 📑 Index 🔤 Fulltext 📇 Add to central columns

📇 Remove from central columns

🖨 Print 📊 Propose table structure 🔵 👁 Track table 📑 Move columns 🪄 Normalize

📇 Add [1] column(s) after usertype ▾ [Go]

Indexes 🔵

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
🖉 Edit ⊖ Drop	PRIMARY	BTREE	Yes	No	username	5	A	No	

Create an index on [1] columns [Go]

Partitions 🔵

Console

phpMyAdmin

Recent Favorites

- New
- artist
  - New
  - artist
  - register
  - sales
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
- user

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Tracking | Triggers

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	artist_name	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
2	painting_id 🔑	int(11)			No	None		AUTO_INCREMENT	Change Drop More
3	painting_title	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
4	price	int(11)			No	None			Change Drop More
5	date	date			No	None			Change Drop More
6	painting_category	varchar(500)	utf8mb4_general_ci		No	None			Change Drop More
7	painting_description	mediumtext	utf8mb4_general_ci		No	None			Change Drop More
8	painting_size	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
9	painting	longblob			No	None			Change Drop More
10	status	int(11)			Yes	NULL			Change Drop More
11	soldstatus	int(11)			Yes	NULL			Change Drop More

↑ ☐ Check all   With selected: ▤ Browse   ✎ Change   ⊘ Drop   🔑 Primary   🅄 Unique   📇 Index   🅃 Fulltext   Add to central columns

Remove from central columns

🖶 Print   Propose table structure ❓   Track table   Move columns   Normalize

Add 1 column(s) after soldstatus ▾ Go

Indexes ❓

phpMyAdmin

🏠🔧📄📋⚙️

Recent Favorites

- New
  - artist
    - New
    - artist
    - register
    - sales
  - information_schema
  - mysql
  - performance_schema
  - phpmyadmin
  - test
  - user

Server: 127.0.0.1 » Database: artist » Table: sales

| Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Tracking | Triggers |

| Table structure | Relation view |

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	painting_id 🔑	int(11)			No	None			Change ⊖ Drop ▾ More
☐	2	artist_name	varchar(200)	utf8mb4_general_ci		No	None			Change ⊖ Drop ▾ More
☐	3	customer_name	varchar(200)	utf8mb4_general_ci		No	None			Change ⊖ Drop ▾ More
☐	4	price	int(11)			No	None			Change ⊖ Drop ▾ More
☐	5	painting_title	varchar(50)	utf8mb4_general_ci		No	None			Change ⊖ Drop ▾ More
☐	6	order_date	date			Yes	NULL			Change ⊖ Drop ▾ More

↑ ☐ Check all With selected: 🗔 Browse 🖉 Change ⊖ Drop 🔑 Primary Ⅱ Unique 📊 Index Ｔ Fulltext 🗃 Add to central columns
🗑 Remove from central columns

🖨 Print 🗔 Propose table structure ⓘ ⦿ Track table 🗔 Move columns 🖉 Normalize

🗔 Add [1] column(s) [after order_date ▾] [Go]

Indexes ⓘ

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
🖉 Edit ⊖ Drop	PRIMARY	BTREE	Yes	No	painting_id	0	A	No	

Create an index on [1] columns [Go]

■ Console

System Implementation

Register

User Name :

Password should have at least one uppercase and at least one number and should be minimum 8 characters

Password :

Minimum of 8 Characters

Email ID :

Phone number :

Choose User type: artist

Register

localhost:8080/artgalleryproj/customer.jsp

Welcome soma!!!

Life

While We fill your [Life] with Art

You Look at our Erstwhile collection for a while....

ID: 10
Artist: samhitha
Title: Blossom
Description: The tree leaves blossom
Price: 5800
Date: 2020-12-08
Size: Small(up to 6in.)
Category: Acrylic

Buy Now

ID: 14
Artist: swethasri
Title: sky
Description: the night is so beautiful
Price: 15000
Date: 2020-08-14
Size: ACEO(2.5x3.5in.)
Category: Pastels

Buy Now

Home Latest Collection My Orders Change Password Logout

Life

While We fill your [ ] with Art

You Look at our Erstwhile collection for a while....

Recently added products are displayed!

ID: 15
Artist: swethasri
Title: Butterfly
Description: butterfly on a flower
Price: 20000
Date: 2020-08-14
Size: ACEO(2.5x3.5in.)
Category: Acrylic
Buy Now

ID: 14
Artist: swethasri
Title: sky
Description: the night is so beautiful
Price: 15000
Date: 2020-08-14
Size: ACEO(2.5x3.5in.)
Category: Pastels
Buy Now
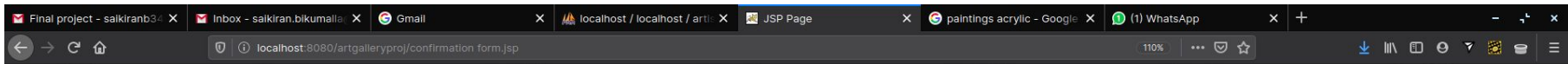
Lets Verify!

Enter Painting Pid to confirm the order

Submit

Cancel Transaction
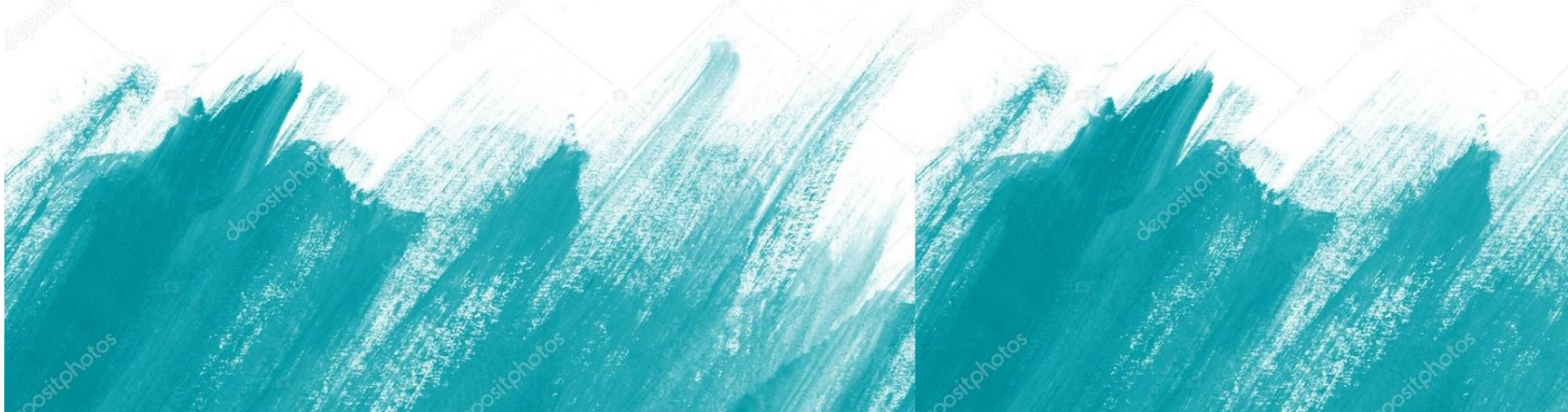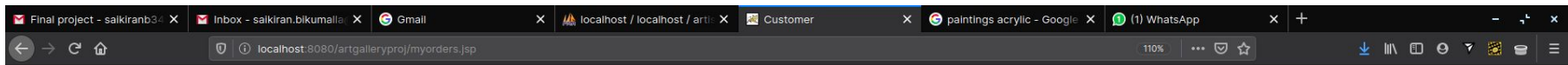
Home   Latest Collection   My Orders   Change Password   Logout

Keep Buying More!

Painting_ID: 9
Artist_name: samhitha
Title: Morning
Price: 9999
Purchase Date: 2020-08-19

Painting_ID: 11
Artist_name: samhitha
Title: Sea
Price: 8700
Purchase Date: 2020-08-19

Painting_ID: 13
Artist_name: swethasri
Title: Woman
Price: 40000
Purchase Date: 2020-08-19
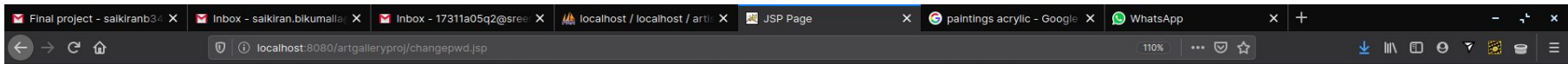
Password should have at least one uppercase and at least one number and should be minimum 8 characters

Enter your current password:

current password

Enter the new password:

new password

Reconfirm your new password:
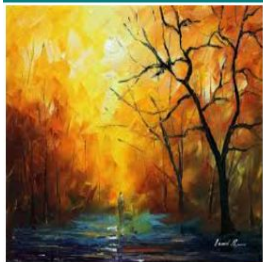
new password confirmation

Submit

ID: 12
Title: Evening
Artist Name: samhitha
Description: knife oil painted view of a spring evening
Price: 15000
Date: 2021-03-08
Size: ACEO(2.5x3.5in.)
Category: Oil Painting

Approve

Reject

ID: 16
Title: Buddha
Artist Name: swethasri
Description: buddham sharanam gacchami
Price: 56199
Date: 2020-12-02
Size: Medium(up to 36in.)
Category: Acrylic

Approve

Reject

ID: 9
Title: Morning
Artist Name: samhitha
Description: The morning view
Price: 9999
Date: 2021-03-08
Size: Small(up to 6in.)
Category: Acrylic
Approval Status: Approved
Selling Status: Sold

ID: 10
Title: Blossom
Artist Name: samhitha
Description: The tree leaves blossom
Price: 5800
Date: 2020-12-08
Size: Small(up to 6in.)
Category: Acrylic
Approval Status: Approved
Selling Status: In Sale

ID: 11
Title: Sea
Artist Name: samhitha
Description: water meets land view of a house
Price: 8700
Date: 2020-12-08
Size: ACEO(2.5x3.5in.)
Category: Pastels
Approval Status: Approved
Selling Status: Sold

ID: 12
Title: Evening
Artist Name: samhitha
Description: knife oil painted view of a spring evening

Total sales are 58699

Painting Id	Painting Title	Artist Name	Customer Name	Price	Date of purchase
9	Morning	samhitha	soma	9999	2020-08-19
11	Sea	samhitha	soma	8700	2020-08-19
13	Woman	swethasri	soma	40000	2020-08-19

Customer Name	Email Id	Phone Number	action
soma	soma@gmail.com	8309499778	Remove

Artist Name	Email Id	Phone Number	action
samhitha	samhitha@gmail.com	9490065978	Remove
swethasri	swethasri@gmail.com	9876543210	Remove

Recent Favorites

- New
- artist
  - New
  - artist
  - register
  - sales
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
- user

📋 Browse 📐 Structure 📄 SQL 🔍 Search ➕ Insert 📤 Export 📥 Import 🔒 Privileges ⚙ Operations 👁 Tracking 📊 Triggers

✔ Showing rows 0 - 5 (6 total, Query took 0.0011 seconds.)

SELECT * FROM `register`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ Filter rows: Search this table Sort by key: None ⌄

+ Options

←T→	username	password	emailid	phonenumber	usertype
☐ 🖉 Edit 📋 Copy 🚫 Delete	admin	e64b78fc3bc91bcbc7dc232ba8ec59e0	admin@gmail.com	9654123245	admin
☐ 🖉 Edit 📋 Copy 🚫 Delete	nisha	e2aa583d3a5d373381656e8cac11cfd6	nisha@gmail.com	9875621232	artist
☐ 🖉 Edit 📋 Copy 🚫 Delete	samhitha	18f2c470cfe3c280cd87dba93161d85e	samhithavootkoor@gmail.com	9490065978	artist
☐ 🖉 Edit 📋 Copy 🚫 Delete	soma	a46a9a4e83834bb1da69f168f3edc885	soma@gmail.com	8309499778	customer
☐ 🖉 Edit 📋 Copy 🚫 Delete	swetha	0fa05daf5bd8546f08967cc996353d77	swetha@gmail.com	9784123210	artist
☐ 🖉 Edit 📋 Copy 🚫 Delete	temp	751ea89508caa33f814865e47ee41aa4	temp@gmail.com	9490065978	customer

↑ ☐ Check all With selected: 🖉 Edit 📋 Copy 🚫 Delete 📤 Export

☐ Show all | Number of rows: 25 ⌄ Filter rows: Search this table Sort by key: None ⌄

Query results operations

🖨 Print 📋 Copy to clipboard 📤 Export 📊 Display chart 🗔 Create view

localhost/phpmyadmin/sql.php?server=1&db=artist&table=artist&pos=0

phpMyAdmin

Recent Favorites

- New
- artist
  - New
  - artist
  - register
  - sales
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

Server: localhost » Database: artist » Table: artist

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Tracking | Triggers

✔ Showing rows 0 - 7 (8 total, Query took 0.0011 seconds.)

```
SELECT * FROM `artist`
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

			artist_name	painting_id	painting_title	price	date	painting_category	painting_description	painting_size	painting	status	soldstatus
☐	Edit Copy Delete		samhitha	9	Morning	9999	2021-03-08	Acrylic	The morning view	Small(up to 6in.)	[BLOB - 15.1 KiB]	1	0
☐	Edit Copy Delete		samhitha	10	Blossom	5800	2020-12-08	Acrylic	The tree leaves blossom	Small(up to 6in.)	[BLOB - 12.2 KiB]	1	0
☐	Edit Copy Delete		samhitha	11	Sea	8700	2020-12-08	Pastels	water meets land view of a house	ACEO(2.5x3.5in.)	[BLOB - 6.1 KiB]	1	0
☐	Edit Copy Delete		samhitha	12	Evening	15000	2021-03-08	Oil Painting	knife oil painted view of a spring evening	ACEO(2.5x3.5in.)	[BLOB - 9.8 KiB]	0	0
☐	Edit Copy Delete		swethasri	13	Woman	40000	2020-12-02	Oil Painting	woman looking at a dancing doll	Medium(up to 36in.)	[BLOB - 44.7 KiB]	1	0
☐	Edit Copy Delete		swethasri	14	sky	15000	2020-08-14	Pastels	the night is so beautiful	ACEO(2.5x3.5in.)	[BLOB - 55.3 KiB]	1	0
☐	Edit Copy Delete		swethasri	15	Butterfly	20000	2020-08-14	Acrylic	butterfly on a flower	ACEO(2.5x3.5in.)	[BLOB - 13.5 KiB]	1	0
☐	Edit Copy Delete		swethasri	16	Buddha	56199	2020-12-02	Acrylic	buddham sharanam gacchami	Medium(up to 36in.)	[BLOB - 10.1 KiB]	0	0

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: [   ] ☐ Let every user access this bookmark

Bookmark this SQL query

■ Console

Bookmarks Options History Clear

Server: localhost » Database: artist » Table: sales

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Tracking | Triggers

✔ Showing rows 0 - 2 (3 total, Query took 0.0009 seconds.)

SELECT * FROM `sales`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key: None ▾

+ Options

←T→			painting_id	artist_name	customer_name	price	painting_title	order_date
☐	🖉 Edit	📋 Copy ⊖ Delete	9	samhitha	soma	9999	Morning	2020-08-19
☐	🖉 Edit	📋 Copy ⊖ Delete	11	samhitha	soma	8700	Sea	2020-08-19
☐	🖉 Edit	📋 Copy ⊖ Delete	13	swethasri	soma	40000	Woman	2020-08-19

↑   ☐ Check all   With selected: 🖉 Edit   📋 Copy   ⊖ Delete   📤 Export

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key: None ▾

Query results operations

🖨 Print   📋 Copy to clipboard   📤 Export   📊 Display chart   📰 Create view

Bookmark this SQL query

Label: _____   ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Bookmarks Options History Clear

Conclusion

Online Art Gallery Management System is an opportunity for artists to display their talent and earn with easy. As a future endeavour, art should not be restricted to only paintings but every other form also should be given a platform. The future scope of the project is to bring several other skills under one platform.