

DBMS Practical Assignments

Paper: CSM105(P) Module 2: Database Management System

Implementation Screenshots

Group – A

M.Sc. in Computer Science, Semester I

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CONTENTS

1. Implementation Details	1
2. Screenshot of workings of the Implementation.....	2

IMPLEMENTATION DETAILS

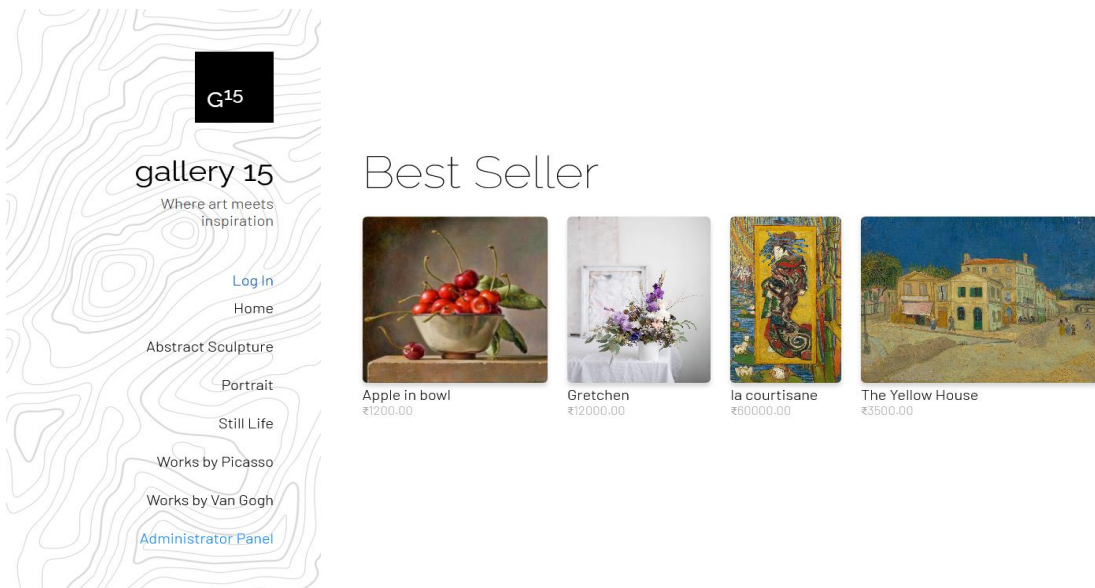
The implementation consists of a front-end for customers to browse and order artworks, a customer panel (or 'Your Account') which allows a customer to manage their artist and group preferences and see order details, and an Administrator panel which allows a person with administrative account to log in and manage all aspects of the system along with generating a sales report.

Management of the artists and artworks (that is, addition, editing, and deletion) is managed directly by the administrator, not by the artist themselves, and can be done easily through various forms and tables present in the administrator's panel. A separate login and panel system, however, can be easily added to this system with minimal changes to the rest of it, by creation of a separate login-screen-enabled panel that has a duplicate of said forms for addition, editing and deletion of artists and artworks.

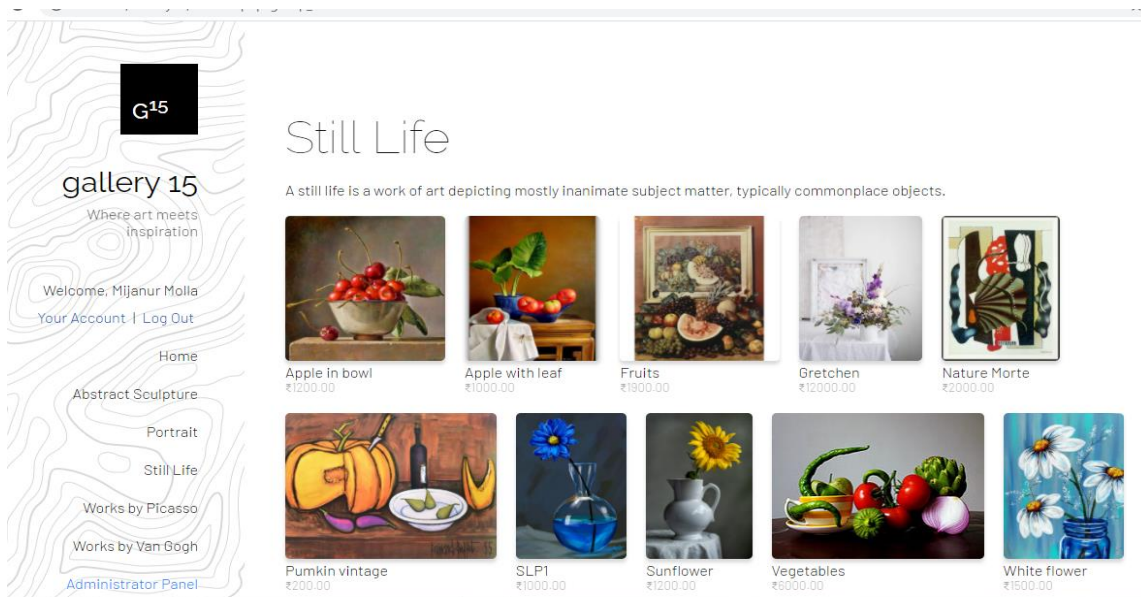
SCREENSHOTS OF THE VIEWS AND REPORTS

FOR THE CUSTOMER FACING WEBSITE

1. View: Homepage, this page shows the best-selling items, that is items that are sold more than 9 pieces.



2. View: Group View Page/Gallery, this page shows all images that belong to a given group.



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3. Form: Login Page, allows user (customer) to log in.

The screenshot shows the Gallery 15 website interface. On the left is a vertical sidebar with a topographic map background. It features the 'G15' logo, the text 'gallery 15' with the tagline 'Where art meets inspiration', and a list of navigation links: 'Log In', 'Home', 'Abstract Sculpture', 'Portrait', 'Still Life', 'Works by Picasso', 'Works by Van Gogh', and 'Administrator Panel'. On the right is a 'CUSTOMER LOGIN' form. It has two input fields for 'Username' and 'Password', a blue 'Login' button, and a link for 'Don't have an account? Signup'.

With wrong username and password input:

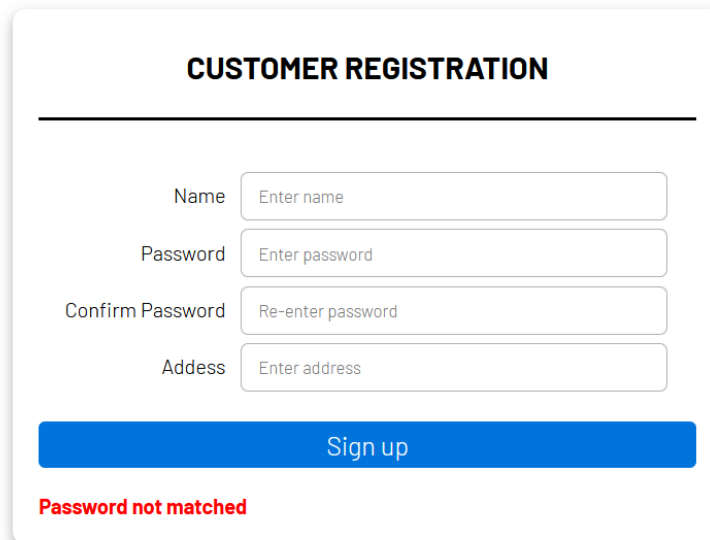
This screenshot shows the 'CUSTOMER LOGIN' form after an incorrect login attempt. Below the 'Login' button, a red error message is displayed: 'Please enter correct login details'.

4. Form: Sign Up page, this page allows the user to sign up (or register) with the system and takes in all relevant details for each user.

The screenshot shows the same Gallery 15 website interface as before, but with the 'CUSTOMER REGISTRATION' form on the right. This form includes input fields for 'Name', 'Password', 'Confirm Password', and 'Address', followed by a blue 'Sign up' button.

Continued on next page...

Error shown when passwords mismatch:



CUSTOMER REGISTRATION

Name

Password

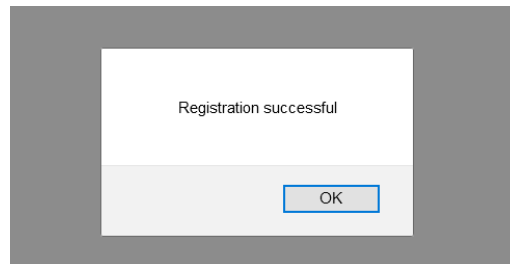
Confirm Password

Address

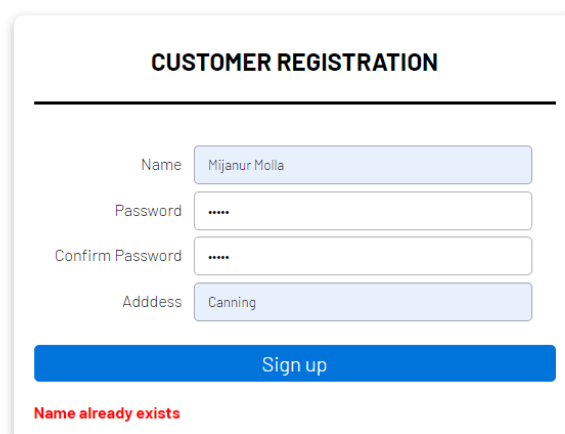
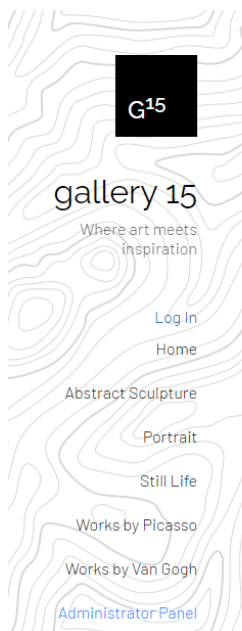
[Sign up](#)

Password not matched

Confirmation shown on successful registration:



It shows an error message if the customer name already exists, as customer name is the primary key.



CUSTOMER REGISTRATION

Name

Password

Confirm Password

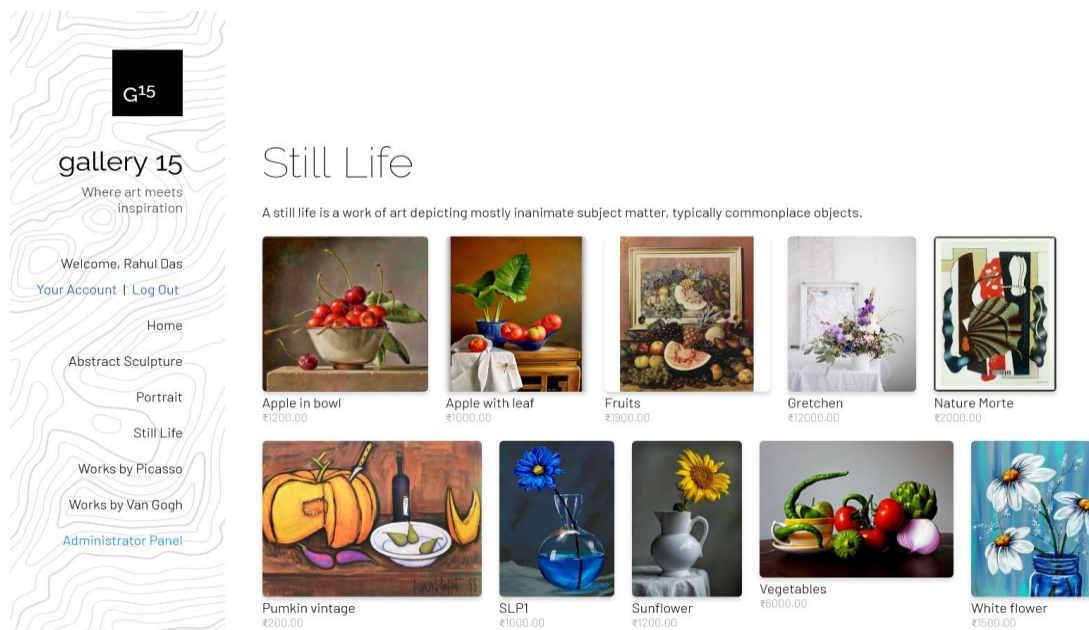
Address

[Sign up](#)

Name already exists

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5. View: Page after logging in, in this view there are changes to the sidebar to show user information, such as a link to the user's orders and preferences page as well as an option to Log Out of the system.



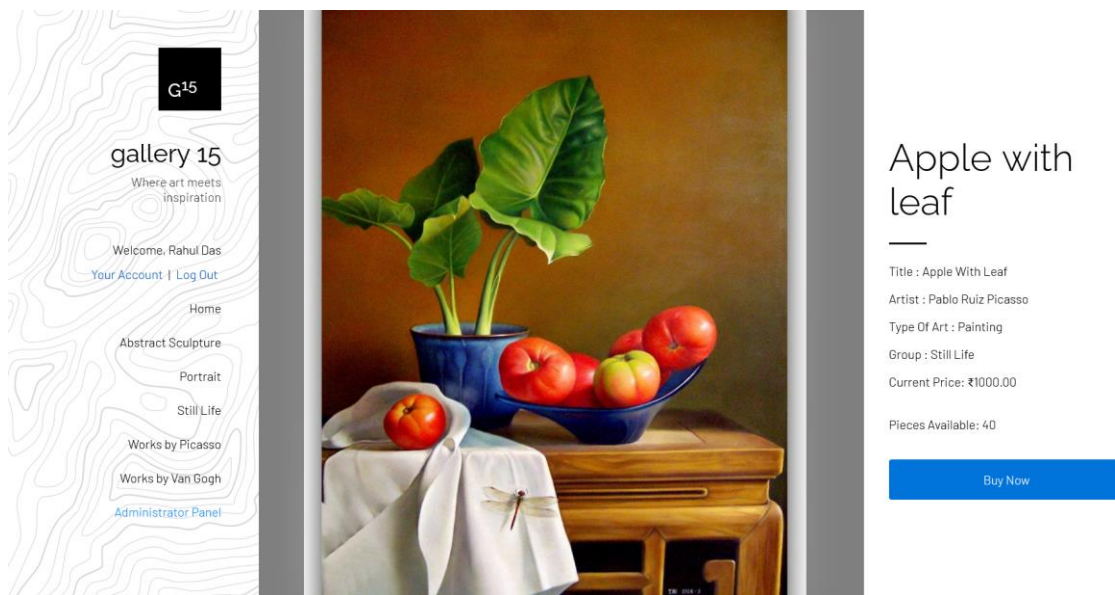
6. View: Buy page, appears after clicking an artwork (image) which allows the user to proceed to the order page.

The following screenshot shows the situation in which pieces are not available. In this situation the customers can't order the artwork.



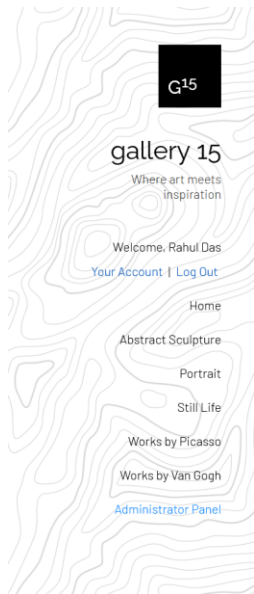
Continued on the next page...

The following screenshot shows the situation in which pieces are available. In this situation the customers *can* order the artwork.



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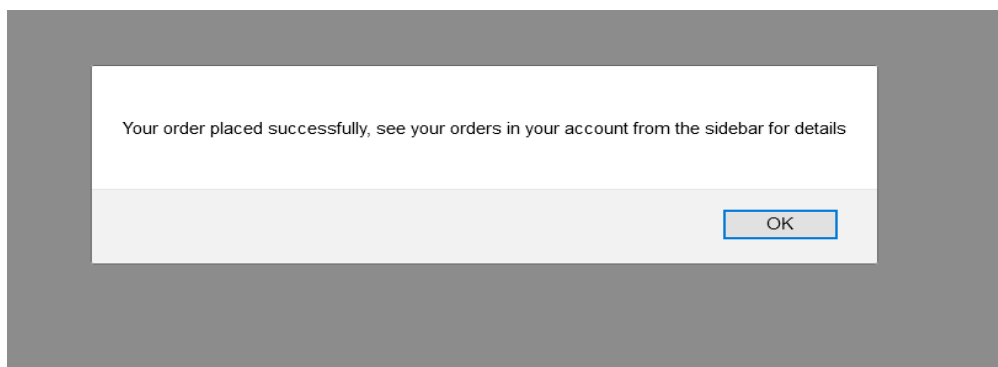
7. Form: Order Page. Allows users to order an item. When a user clicks buy now, they are redirected to the login page (if they are not logged in) and then automatically redirected to this order form. In case a user is logged in, they are simply forwarded to this page. Most details are fetched from the database.



Fill up order details

Customer Name	<input type="text" value="Rahul Das"/>
Product Name	<input type="text" value="Gretchen"/>
Price	<input type="text" value="12000.00"/>
Quantity	<input type="text" value="1"/>
Total	<input type="text" value="12000"/>
Date	<input type="text" value="11 / 05 / 2021"/>

Dialog shown on successful ordering:



Message shown on ordering too many pieces:

Fill up order details

Customer Name	<input type="text" value="Rahul Das"/>
Product Name	<input type="text" value="Nature Morte"/>
Price	<input type="text" value="2000.00"/>
Quantity	<input type="text" value="1"/>
Total	<input type="text" value="2000"/>
Date	<input type="text" value="11 / 05 / 2021"/>

There are not enough pieces/prints of the artwork to satisfy your order.

Continued on next page...

8. View and Form: This page is shown when a customer clicks “Your Account”. Shows all liked artists and groups and allows users to remove or add groups and artists as liked. The red cross button removes a preference. The page is updated with every addition and removal.

The screenshot shows the 'Your Account' page. At the top, there's a blue header with 'Your Account' on the left, 'Welcome, Rahul Das' and a 'Logout' button on the right. Below the header is a navigation bar with 'Liked Artists and Groups' and 'Order History'. The main content area is divided into two sections: 'You Like Artists' and 'You Like Groups'. In the 'You Like Artists' section, there are three artist cards: 'Mahendra Das', 'Pablo Ruiz Picasso', and 'Vincent Willem van Gogh', each with a red 'X' button to remove it. To the right is an 'Add artist:' dropdown menu with 'Bikur Roy' selected and an 'Add' button. The 'You Like Groups' section has four group cards: 'Abstract Sculpture', 'Classical Sculptures', 'Works by Picasso', and 'Works by Van Gogh', each with a red 'X' button. To the right is an 'Add Group:' dropdown menu with '19th Century Paintings' selected and an 'Add' button.

9. Report: Shows all orders placed by the user in ascending or descending order of total price or date, as selected by the user from the sidebar.

The following screenshot shows the report in descending order of date.

The screenshot shows the 'Your Account' page with the 'Order History' tab selected. On the left is a sidebar with sorting options. Under 'SORT BY DATE IN', 'Descending Order' is selected. Under 'SORT BY PRICE IN', 'Descending Order' is also selected. The main content area displays a list of five orders, each in a grey box. Each order card contains the following information: Order ID, Billed To (Rahul Das), Title, Price, Quantity bought, Total Amount, and Order Date. A 'View Artwork in Gallery' button is at the bottom of each card. The orders are listed in descending order of date.

Order ID	Billed To	Title	Price	Quantity bought	Total Amount	Order Date
14	Rahul Das	Gretchen	₹12000.00	1	₹12000	2021-05-11
3	Rahul Das	Fruits	₹1900.00	3	₹5700	2021-05-05
1	Rahul Das	Apple in bowl	₹1200.00	10	₹12000	2021-04-11
11	Rahul Das	Apple in bowl	₹1200.00	5	₹6000	2021-04-07
2	Rahul Das	la courtisane	₹60000.00	10	₹600000	2021-04-01

Continued on the next page...

The following screenshot shows the report in descending order of price.

Your Account

Welcome, Rahul Das [Logout](#)

Liked Artists and Groups

Order History

Back to Gallery

SORT BY DATE IN

Ascending Order

Descending Order

SORT BY PRICE IN

Ascending Order

Descending Order

Order ID:2

Billed To:Rahul Das

Title:la courtisane

Price:₹60000.00

Quantity bought:10

Total Amount:₹600000

Order Date:2021-04-01

View Artwork in Gallery

Order ID:14

Billed To:Rahul Das

Title:Gretchen

Price:₹12000.00

Quantity bought:1

Total Amount:₹12000

Order Date:2021-05-11

View Artwork in Gallery

Order ID:1

Billed To:Rahul Das

Title:Apple in bowl

Price:₹1200.00

Quantity bought:10

Total Amount:₹12000

Order Date:2021-04-11

View Artwork in Gallery

Order ID:11

Billed To:Rahul Das

Title:Apple in bowl

Price:₹1200.00

Quantity bought:5

Total Amount:₹6000

Order Date:2021-04-07

View Artwork in Gallery

Order ID:3

Billed To:Rahul Das

Title:Fruits

Price:₹1900.00

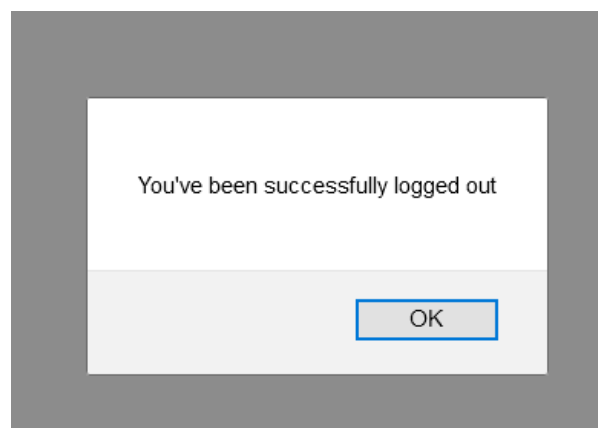
Quantity bought:3

Total Amount:₹5700

Order Date:2021-05-05

View Artwork in Gallery


This dialog is shown when the user clicks Log Out Shown when the user logs off.



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FOR THE ADMINISTRATOR (ADMIN) PANEL

1. Login Page for Admin Panel:



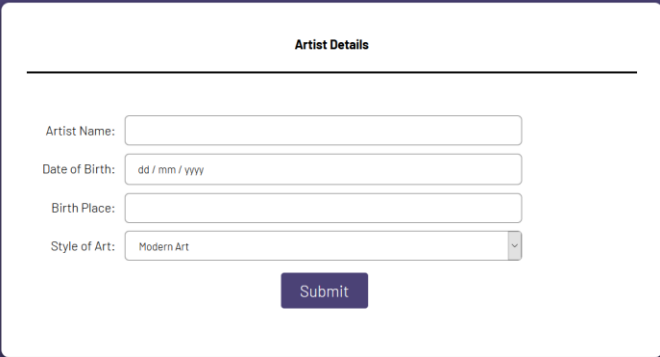
The Admin Login form is centered on a dark background. It has a title 'ADMIN LOGIN' and two input fields: 'Username' with placeholder text 'Enter username' and 'Password' with placeholder text 'Enter password'. A blue 'Login' button is at the bottom.

After Successful Admin Login the following page is shown.

2. Page showing all artists in the system. This also allows us to edit and remove artists.

GALLERY 15 ADMINISTRATOR PANEL	Artist Details				Welcome, admin Logout	
	Add Artist					
	Artist Name	Date Of Birth	Birth Place	Style of Art		
	Bidur Roy	1996-07-11	Delhi	Pop Art	Edit	Delete
	Ishaan Mitra	1998-12-11	Kolkata	Abstract Art	Edit	Delete
	Mahendra Das	1990-06-11	Basanti	Renaissance Art	Edit	Delete
	Pablo Ruiz Picasso	1881-10-25	Málaga, Andalusia	Abstract Art	Edit	Delete
	Ramen Das	2000-07-11	Mumbai	Impressionist Art	Edit	Delete
Artists	Soumya Dutta	1994-07-11	Pune	Others	Edit	Delete
Artworks	Sourav Mandal	1996-05-11	Canning	Modern Art	Edit	Delete
Artist Preferences	Vincent Willem van Gogh	1853-03-30	Groot-Zundert	Modern Art	Edit	Delete
Group Preferences						
Customers						
Groups						
Orders						
Generate Report						
Main Site						

On clicking Add New Artist:

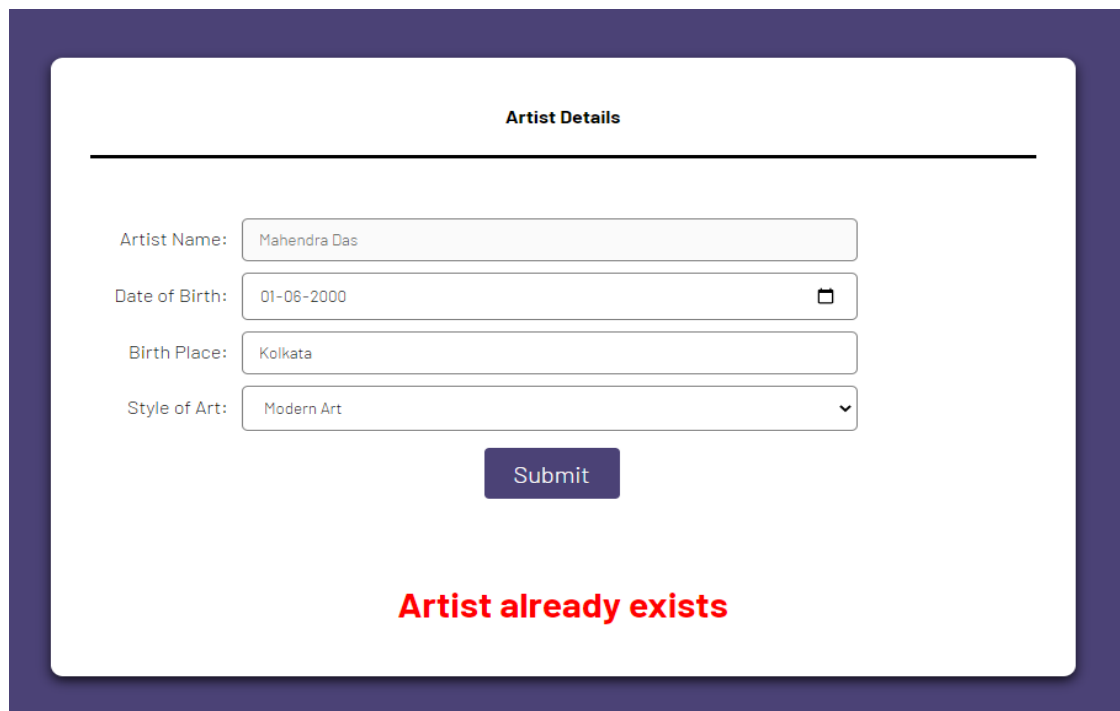


The Artist Details form is a modal window with a title 'Artist Details'. It contains four input fields: 'Artist Name', 'Date of Birth' with a date picker (dd / mm / yyyy), 'Birth Place', and 'Style of Art' with a dropdown menu (Modern Art). A 'Submit' button is at the bottom.

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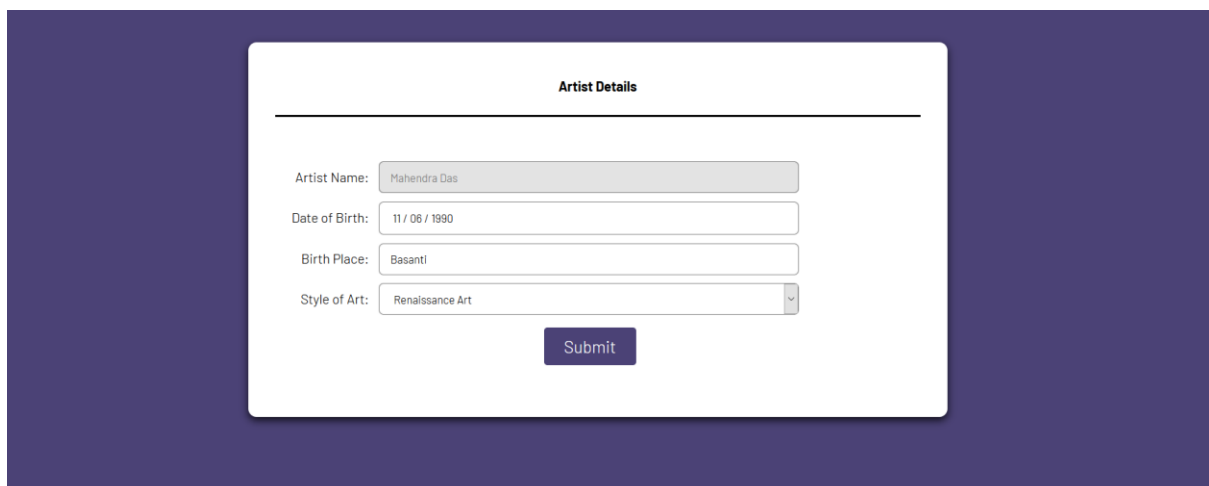
If an artist name does not exist, the artist details are added successfully. If an artist name exists in the artist table it shows an error message as the artist name is the primary key.

View: When an artist already exists.



The screenshot shows a web form titled "Artist Details" with a purple header bar. The form contains four input fields: "Artist Name" (text), "Date of Birth" (date), "Birth Place" (text), and "Style of Art" (dropdown). The "Artist Name" field is filled with "Mahendra Das", "Date of Birth" with "01-06-2000", "Birth Place" with "Kolkata", and "Style of Art" with "Modern Art". A purple "Submit" button is located below the fields. Below the form, a red error message "Artist already exists" is displayed.

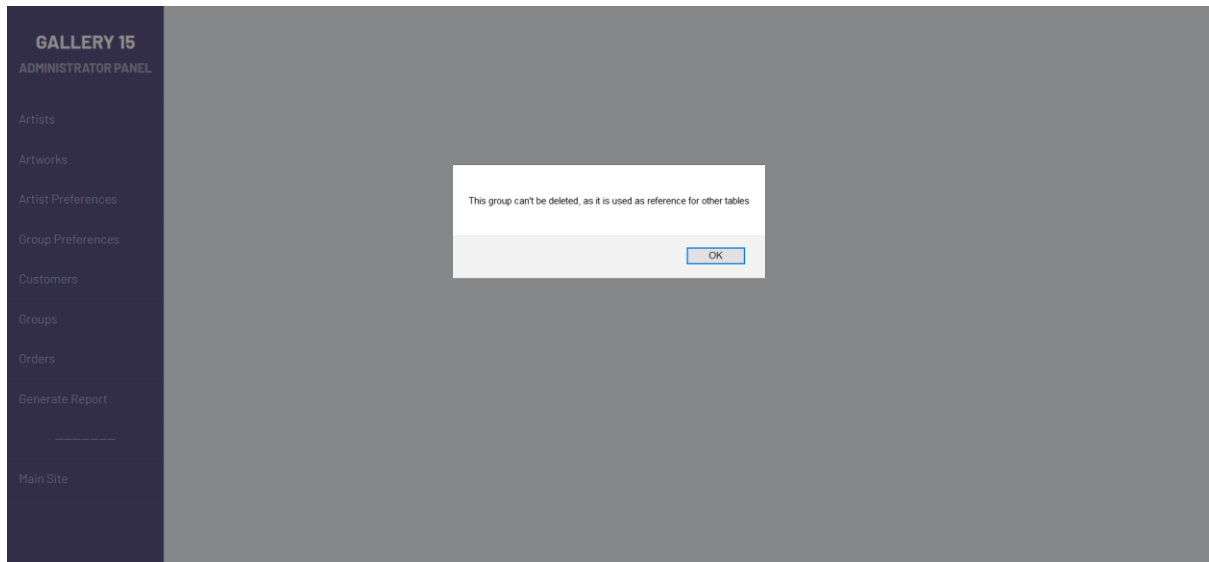
On clicking Edit Existing Artist:(All details of artist can be edited except artist name(primary key).)



The screenshot shows the same "Artist Details" form, but with the "Artist Name" field disabled (grayed out) and filled with "Mahendra Das". The other fields are editable: "Date of Birth" is "11 / 06 / 1990", "Birth Place" is "Basanti", and "Style of Art" is "Renaissance Art". A purple "Submit" button is located below the fields.






























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On deleting an artist with existing artworks (this is to preserve referential integrity):

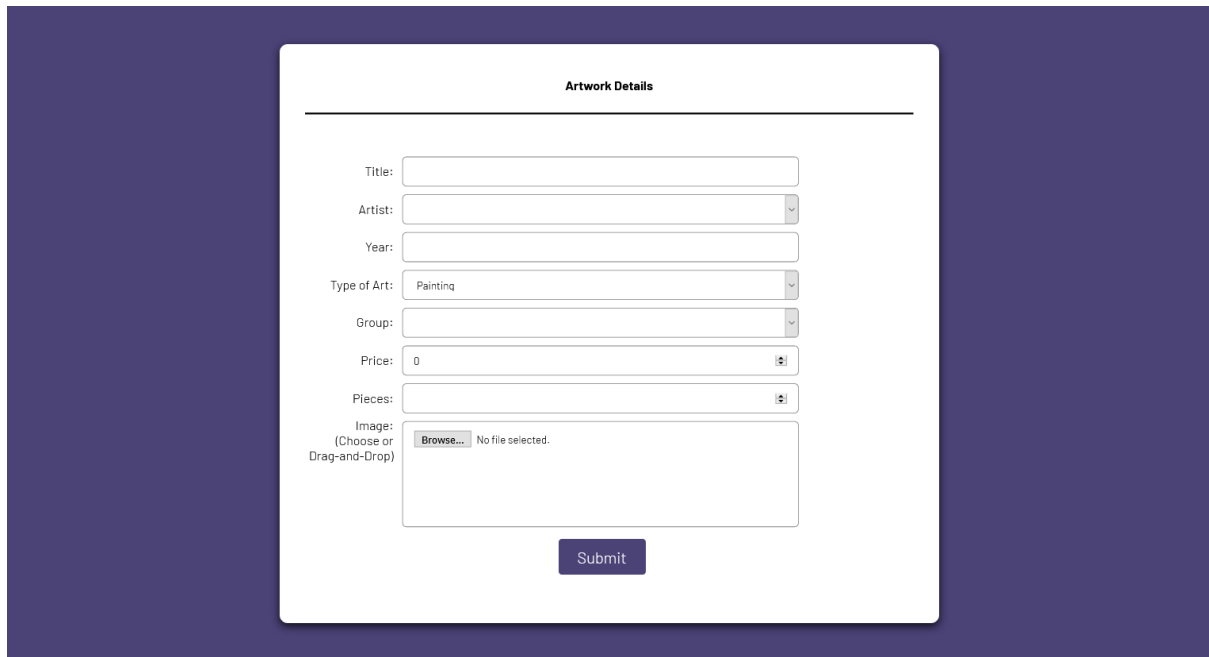


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3. Report: This page shows all artworks present in the gallery along with options to add, edit or remove artworks. (The sidebar is fixed and does not move on scrolling. This is not shown in the screenshot)

GALLERY 15 ADMINISTRATOR PANEL	Artwork Details								Welcome, admin Logout	
	Title	Artist	Year	Type of Art	Group	Image	Price	Pieces Available		
Admin Artworks Artist Preferences Group Preferences Customers Groups Orders Sales Report Main Edit	Apple in bowl	Ramen Des	2018	Painting	Still Life		₹1200.00	0	Edit	Delete
	Apple with leaf	Fabio Ruiz Picasso	2023	Painting	Still Life		₹1000.00	40	Edit	Delete
	Artistic Figure	Fabio Ruiz Picasso	1988	Painting	Portrait		₹2200.00	3	Edit	Delete
	Classical Picasso	Mahendra Des	1968	Sculpture	Abstract Sculpture		₹100000.00	1	Edit	Delete
	Classical	Ramen Des	1888	Photograph	Portrait		₹16000.00	25	Edit	Delete
	Elm Shopkeeper	Vincent William van Gogh	1898	Painting	Works by Van Gogh		₹13400.00	20	Edit	Delete
	City of Madrid	Mahendra Des	2015	Sculpture	Classical Sculpture		₹30000.00	6	Edit	Delete
	Fruits	Scumya Datta	2021	Lithograph	Still Life		₹800.00	9	Edit	Delete
	Gertrude Stein	Fabio Ruiz Picasso	1988	Painting	Works by Picasso		₹2500.00	3	Edit	Delete
	Orchids I	Isabel Milla	2018	Painting	Still Life		₹12000.00	104	Edit	Delete
	Edouard Underland	Mahendra Des	2018	Sculpture	Abstract Sculpture		₹10000.00	3	Edit	Delete
	L'Ami du Peuple	Fabio Ruiz Picasso	1988	Mixed Medium	Works by Picasso		₹2800.00	60	Edit	Delete
	L'Histoire du Peuple	Fabio Ruiz Picasso	1989	Mixed Medium	Works by Picasso		₹2200.00	10	Edit	Delete
	La Courtoise	Vincent William van Gogh	1897	Painting	Works by Van Gogh		₹60000.00	20	Edit	Delete
	Leonardo Da Vinci	Isabel Milla	1910	Photograph	Portrait		₹60000.00	10	Edit	Delete
	Mona Lisa	Mahendra Des	1610	Photograph	Portrait		₹400000.00	1	Edit	Delete
	Nature morte	Scumya Datta	2018	Lithograph	Still Life		₹2000.00	12	Edit	Delete
	Nature morte au compotier	Fabio Ruiz Picasso	1920	Mixed Medium	Works by Picasso		₹1000.00	40	Edit	Delete
	Portrait of Jans Gogh	Vincent William van Gogh	1897	Painting	Works by Van Gogh		₹180000.00	1	Edit	Delete
	Pumpkin Village	Saurav Prasad	2015	Painting	Still Life		₹200.00	3	Edit	Delete
	SLP	Mahendra Des	2018	Painting	Still Life		₹1000.00	7	Edit	Delete
	Sunflower	Ruben Roy	2007	Photograph	Still Life		₹1000.00	4	Edit	Delete
	The Wind	Mahendra Des	2021	Sculpture	Classical Sculpture		₹30000.00	3	Edit	Delete
	The World is Wind	Mahendra Des	2023	Sculpture	Abstract Sculpture		₹500.00	3	Edit	Delete
	The Yellow House	Vincent William van Gogh	1908	Painting	Works by Van Gogh		₹2500.00	24	Edit	Delete
	Toucoucou-Les Amis de Henri	Vincent William van Gogh	1897	Painting	Works by Van Gogh		₹50000.00	1	Edit	Delete
	Vegetables	Ramen Des	2022	Photograph	Still Life		₹6000.00	1	Edit	Delete
	White Flower	Scumya Datta	2015	Painting	Still Life		₹800.00	2	Edit	Delete
	Windmills in Holland	Vincent William van Gogh	1898	Painting	Works by Van Gogh		₹100000.00	26	Edit	Delete

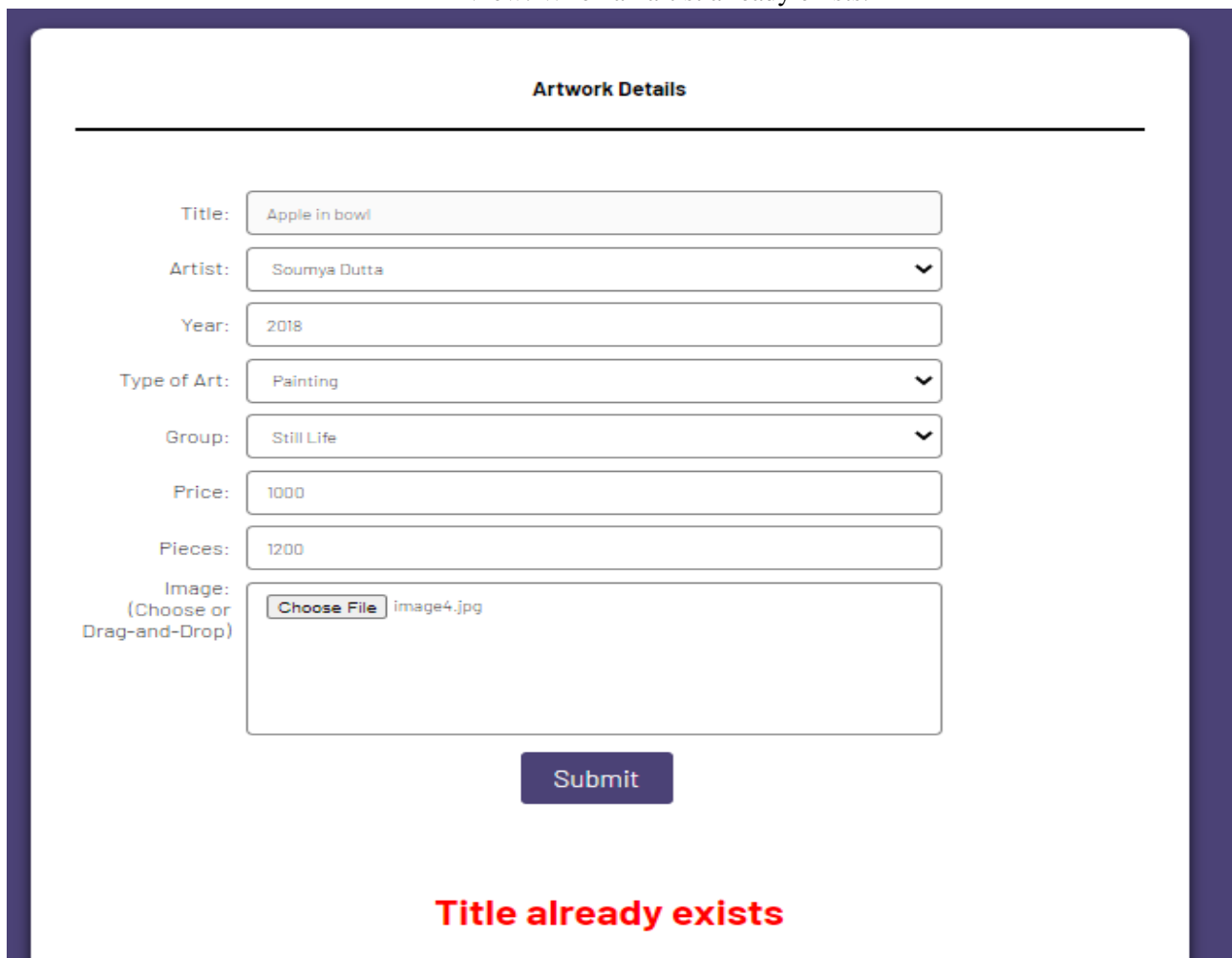
On clicking add artwork:



The screenshot shows a modal form titled "Artwork Details" with the following fields: Title (text input), Artist (dropdown menu), Year (text input), Type of Art (dropdown menu with "Painting" selected), Group (dropdown menu), Price (text input with "0" and a currency icon), Pieces (text input with a currency icon), and Image (a "Browse..." button and a note "No file selected."). A "Submit" button is at the bottom.

If an artwork title does not exist, the artwork details are added successfully. If an artwork title exists in the artwork table it shows an error message as the artwork title is the primary key.

View: When an artist already exists.



The screenshot shows the "Artwork Details" form with the following pre-filled data: Title: "Apple in bowl", Artist: "Soumya Dutta", Year: "2018", Type of Art: "Painting", Group: "Still Life", Price: "1000", and Pieces: "1200". The Image field shows a "Choose File" button and the filename "image4.jpg". A "Submit" button is at the bottom. Below the form, a red error message reads "Title already exists".

Continued on next page...

On clicking edit artwork:(While trying to edit all details can be edited except artwork title).

Artwork Details

Title:

Artist:

Year:

Type of Art:

Group:

Price:

Pieces:

Image: (Choose or Drag-and-Drop) No file selected.

4. **Artist Preferences:** This page shows customer's artist preferences. Only option to delete the preferences are provided, as the customer has the ability to add or remove items.

GALLERY 15 ADMINISTRATOR PANEL		Like-artist Details		Welcome, admin Logout
		Customer Name	Artist Name	
Artists		Mijanur Molla	Bidur Roy	<input type="button" value="Delete"/>
Artworks		Mijanur Molla	Ishaan Mitra	<input type="button" value="Delete"/>
Artist Preferences		Mijanur Molla	Mahendra Das	<input type="button" value="Delete"/>
Group Preferences		Rahul Chatterjee	Bidur Roy	<input type="button" value="Delete"/>
Customers		Rahul Chatterjee	Mahendra Das	<input type="button" value="Delete"/>
Groups		Rahul Das	Mahendra Das	<input type="button" value="Delete"/>
Orders		Rahul Das	Pablo Ruiz Picasso	<input type="button" value="Delete"/>
Generate Report		Rahul Das	Vincent Willem van Gogh	<input type="button" value="Delete"/>
-----		Sumedha Bhattacharya	Bidur Roy	<input type="button" value="Delete"/>
Main Site				

Continued on the next page...

5. Group Preferences: This page shows customer's group preferences. Only option to delete the preferences are provided, as the customer has the ability to add or remove items.

GALLERY 15			
ADMINISTRATOR PANEL			
Artists	Mijanur Molla	19th Century Paintings	Delete
Artworks	Mijanur Molla	Abstract Sculpture	Delete
Artist Preferences	Mijanur Molla	Classical Sculptures	Delete
Group Preferences	Rahul Chatterjee	Portrait	Delete
Customers	Rahul Chatterjee	Still Life	Delete
Groups	Rahul Das	Abstract Sculpture	Delete
Orders	Rahul Das	Classical Sculptures	Delete
Generate Report	Rahul Das	Works by Picasso	Delete
Main Site	Rahul Das	Works by Van Gogh	Delete
	Sumedha Bhattacharya	19th Century Paintings	Delete
	Sumedha Bhattacharya	Still Life	Delete
	Sumedha Bhattacharya	Works by Van Gogh	Delete

Continued on the next page...

6. Customers: This page shows all of the customers in the gallery. Only customers can change their details, thus only delete is allowed.

When a customer buys an artwork, then the price column of the customer table is updated with the total amount which a customer spent for the gallery.

<div>GALLERY 15</div> <div>ADMINISTRATOR PANEL</div> <div>Artists</div> <div>Artworks</div> <div>Artist Preferences</div> <div>Group Preferences</div> <div>Customers</div> <div>Groups</div> <div>Orders</div> <div>Generate Report</div> <div>-----</div> <div>Main Site</div>	Customer Details				Welcome, admin Logout
	Customer Name	Address	Price		
	Agnibesh Kayal	Behala	₹0.00	Delete	
	Debarati Mondal	Ruby	₹0.00	Delete	
	Mijanur Molla	Garia	₹292000.00	Delete	
	Priti Das	Shyambazar	₹0.00	Delete	
	Rahul Chatterjee	Belur	₹494500.00	Delete	
	Rahul Das	Birati	₹635700.00	Delete	
	Rudrani Roy	Tollygunge	₹0.00	Delete	
	Sumedha Bhattacharya	Salt Lake	₹5000.00	Delete	

7. All Groups: This page shows all the groups that an artwork can belong to. It also allows us to add, edit or delete groups. There is also an option to mark a group as active or inactive.

(If a group status is active, then it is shown on the homepage side-bar and if status is inactive then it is not shown on the homepage side-bar.)

GALLERY 15

ADMINISTRATOR PANEL

Artists

Artworks

Artist Preferences

Group Preferences

Customers

Groups

Orders

Generate Report

Main Site

Add Group

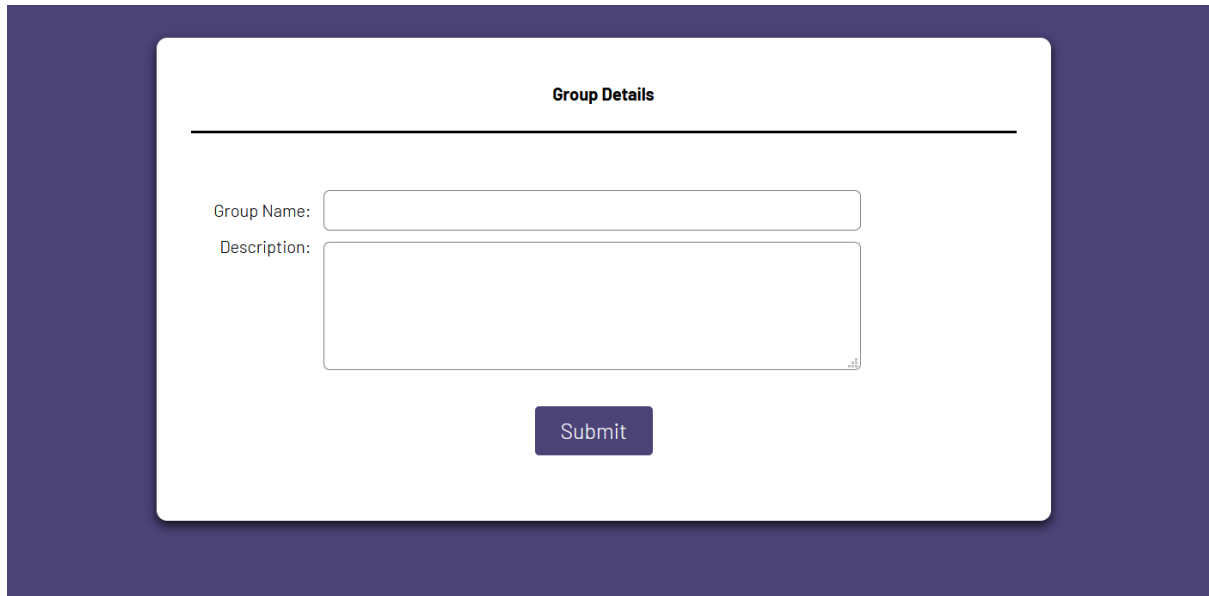
Groups Details

Welcome, admin
Logout

Group Name	Description	Actions		
19th Century Paintings	Famous works from the 19 th Century	Inactive	Edit	Delete
Abstract Sculpture	Modern sculpture is generally considered to have begun with the work of Auguste Rodin, who is seen as the progenitor of modern sculpture	Active	Edit	Delete
Classical Sculptures	Classical sculpture refers generally to sculpture from Ancient Greece and Ancient Rome, as well as the Hellenized and Romanized civilizations under their rule or influence	Inactive	Edit	Delete
Portrait	Portrait painting is a genre in painting, where one represents a person.	Active	Edit	Delete
Still Life	A still life is a work of art depicting mostly inanimate subject matter, typically commonplace objects.	Active	Edit	Delete
Works by Picasso	Pablo Picasso was one of the most influential painters, famous for his works in Cubism.	Active	Edit	Delete
Works by Van Gogh	Works by one of the most famous and influential figures in the history of Western art	Active	Edit	Delete

Continued on the next page...

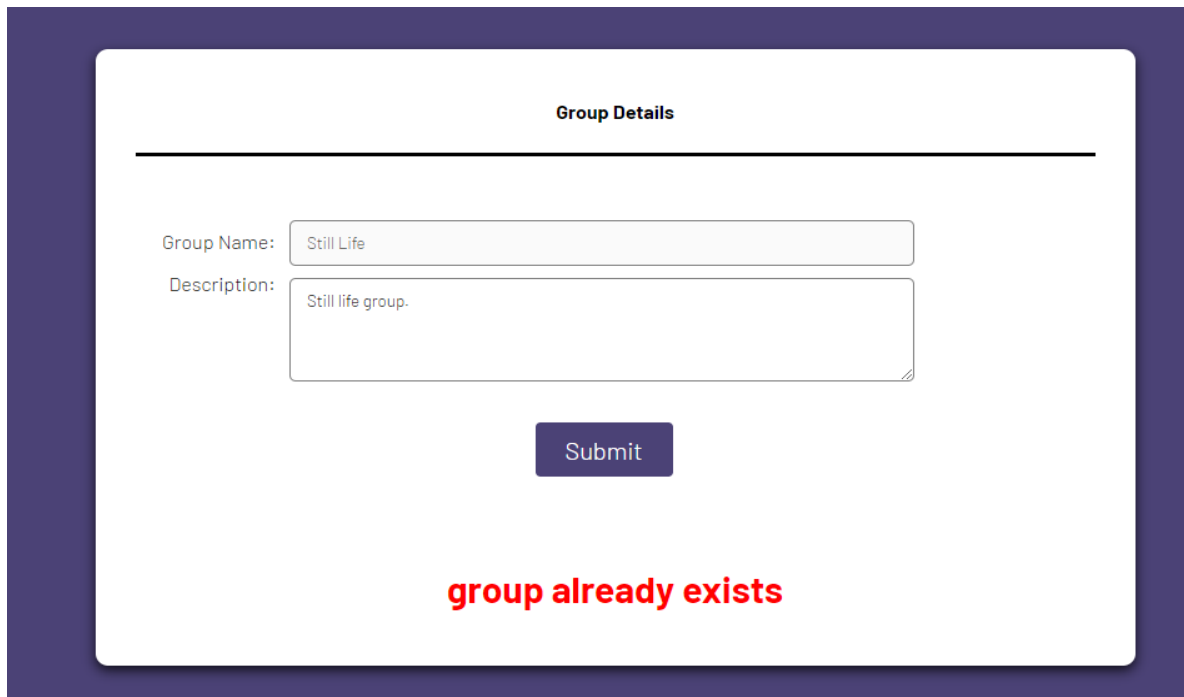
Form to add group: When a new group is added its status is filled automatically as active.



The image shows a web form titled "Group Details" on a dark purple background. The form is a white rounded rectangle with a horizontal line below the title. It contains two input fields: "Group Name:" with a single-line text box, and "Description:" with a larger multi-line text box. A dark purple "Submit" button is centered at the bottom of the form.

If a group name does not exist, the group details are added successfully. If a group exists in the group table it shows an error message as the group name is the primary key.

View: When a group already exists.



The image shows the same "Group Details" form as before, but with pre-filled data. The "Group Name:" field contains the text "Still Life" and the "Description:" field contains "Still life group.". Below the "Submit" button, the text "group already exists" is displayed in a bold red font, indicating an error.

Continued on next page...

Form to Edit group:

Group Details

Group Name:

Portrait

Description:

Submit

8. Showing all orders by all customers: this page shows all orders placed by the customers. It fetches the details from the relevant tables. The price is stored when the order is placed, so that the order details do not change even if the artwork's current price changes. Option is provided to delete an order.

GALLERY 15 ADMINISTRATOR PANEL Artists Artworks Artist Preferences Group Preferences Customers Groups Orders Generate Report ----- Main Site	Order Details							Welcome, admin Logout
	Order_id	Customer Name	Product Name	Price	Quantity	Total	Order_date	
	1	Rahul Das	Apple in bowl	₹1200.00	10	₹12000	2021-04-11	
	2	Rahul Das	la courtisane	₹60000.00	10	₹600000	2021-04-01	
	3	Rahul Das	Fruits	₹1900.00	3	₹5700	2021-05-05	
	4	Rahul Chatterjee	Apple in bowl	₹1200.00	5	₹6000	2021-04-28	
	5	Sumedha Bhattacharya	SLP1	₹1000.00	5	₹5000	2021-03-10	
	6	Rahul Chatterjee	Monalisa	₹450000.00	1	₹450000	2021-05-03	
	7	Mijanur Molla	Chicagoian Picasso	₹100000.00	1	₹100000	2021-05-07	
	8	Rahul Chatterjee	The Yellow House	₹3500.00	11	₹38500	2021-04-22	
	9	Mijanur Molla	Vegetables	₹6000.00	1	₹6000	2021-04-30	Delete
	10	Mijanur Molla	Apple in bowl	₹1200.00	1	₹1200	2021-04-12	Delete
	11	Rahul Das	Apple in bowl	₹1200.00	5	₹6000	2021-04-07	Delete
	12	Mijanur Molla	Apple in bowl	₹1200.00	4	₹4800	2021-03-09	Delete
	13	Mijanur Molla	Gretchen	₹12000.00	15	₹180000	2021-04-15	Delete
	14	Rahul Das	Gretchen	₹12000.00	1	₹12000	2021-05-11	Delete

Continued on the next page...

9. **Report Generation Screen:** This page takes the information to generate a report of the sales of all artworks by a given artist in a given time period along with total sales figures. It also generates a breakdown of the quantity of art sold and sales generated per group in a separate table.

GALLERY 15
ADMINISTRATOR PANEL

Artists

Artworks

Artist Preferences

Group Preferences

Customers

Groups

Orders

Generate Report

Main Site

Generate Report

This form generates a report of the sales of artwork by a given artist in a given time period, along with the total sale figures.

From Date : 01-03-2021

To Date : 11-05-2021

Artist Name : Mahendra Das

Generate report

Welcome, admin
Logout

Screenshot of the generated report: (A pdf of this file is also attached)






download pdf

G¹⁵

gallery 15
where art meets inspiration

Artist's Earnings
Report
On: Earnings on Artist's Artwork
From: 2021-03-01
To: 2021-05-11
Artist: Mahendra Das

Artist Profile
Mahendra Das
Date of Birth: 1990-06-11
Birth Place: Basanti
Style of Art: Renaissance Art
No. of Artworks: 7

Order Id	Artwork	Group name	Type of art	Year of painting	Price	Quantity Sold	Date Sold	Image
5	SLP1	Still Life	Painting	2018	₹1000.00	5	2021-03-10	
6	Monalisa	Portrait	Painting	1600	₹450000.00	1	2021-05-03	
7	Chicagoian Picasso	Abstract Sculpture	Sculpture	1999	₹100000.00	1	2021-05-07	
15	SLP1	Still Life	Painting	2018	₹1000.00	3	2021-05-11	
16	Monalisa	Portrait	Painting	1600	₹450000.00	2	2021-05-11	
Total Sales:							₹1458000	

(The screenshot is split and continued on the next page due to its size)

Continued on next page...

Group Name	Total Quantity Sold	Total Sales Generated
Abstract Sculpture	1	₹100000.00
Portrait	3	₹1350000.00
Still Life	8	₹8000.00
Grand Total		₹1458000

Print

download pdf

After clicking “Print” button the shown page: (This is in Google Chrome)

Report No. 158887

Report No. 158887

gth gallery 15

where art meets inspiration

Artist's Earnings Report

On: Earnings of Artist's Artwork

From: 2021-03-01

To: 2021-05-31

Artist: Mahendra Das

Artist Profile






Mahendra Das

Date of Birth: 1980-04-11

Birth Place: Baramati

Style of art: Realism/Impressionist

No. of Artworks: 7

Order Id	Artwork	Group Name	Type of art	Year of painting	Price	Quantity Sold	Date Sold	Image
5	SLP1	Still Life	Painting	2018	₹1000.00	5	2021-05-31	
6	Portrait	Portrait	Painting	8000	₹450000.00	1	2021-05-03	
7	Chicagoan Picasso	Abstract Sculpture	Sculpture	1800	₹100000.00	1	2021-05-07	
15	SLP1	Still Life	Painting	2018	₹1000.00	3	2021-05-31	
16	Portrait	Portrait	Painting	8000	₹450000.00	2	2021-05-31	

Total Sales: ₹1458000

Group Name	Total Quantity Sold	Total Sales Generated
Abstract Sculpture	1	₹100000.00
Portrait	3	₹1350000.00
Still Life	8	₹8000.00
Grand Total		₹1458000

Report Generated On: 2021-05-31 10:00:00

Print

2 pages

Destination

Save as PDF

Pages

All

Pages per sheet

1

Margins

Default

Options

☒ Headers and footers

☐ Background graphics

SaveCancel

CONTENTS OF THE TABLES IN THE DATABASE

The following screenshots show the contents of the tables in the database, after initial insertion of records. The screenshots were taken from phpMyAdmin's Browse View

1. Table artist

artist_name	dob	birth_place	style_of_art	age
Bidur Roy	1996-07-11	Delhi	Pop Art	25
Ishaan Mitra	1998-12-11	Kolkata	Abstract Art	23
Mahendra Das	1990-06-11	Basanti	Renaissance Art	31
Pablo Ruiz Picasso	1881-10-25	Málaga, Andalusia	Abstract Art	140

2. Table Artwork

Apple in bowl	Ramen Das	2018	Painting	Still Life	42680873_image4.jpg	1200.00	19
Apple with leaf	Pablo Ruiz Picasso	2020	Painting	Still Life	72878192_image3.jpg	1000.00	40
Au Lapin Agile	Pablo Ruiz Picasso	1918	Painting	Portrait	53555645_P4.jpg	220	

Continued on next page...

3. Table customers:

The amount is automatically increased by order total by the query whenever an order is placed.

customer_name	password	address	amount
Agnibesh Kayal	iamagnibesh	Behala	0.00
Debarati Mondal	debu	Ruby	0.00
Mijanur Molla	mijanur@12345	Garia	292000.00
Priti Das	pritidas	Shyambazar	0.00
Rahul Chatterjee	correcthorsebatterystaple	Belur	494500.00
Rahul Das	password123	Birati	623700.00
Rudrani Roy	aktapassword	Tollygunge	0.00
Sumedha Bhattacharya	12345	Salt Lake	5000.00

4. Table groups

The column status is used to mark active (1) or inactive(0) groups. Inactive groups are not shown in the sidebar of the art gallery.

group_name	description	status
19th Century Paintings	Famous works from the 19 th Century	0
Abstract Sculpture	Modern sculpture is generally considered to have b...	1
Classical Sculptures	Classical sculpture refers generally to sculpture ...	0
Portrait	Portrait painting is a genre in painting, where on...	1
Still Life	A still life is a work of art depicting mostly ina...	1
Works by Picasso	Pablo Picasso was one of the most influential pain...	1
Works by Van Gogh	Works by one of the most famous and influential fi...	1

5. Table like_artist

customer_name	artist_name
Mijanur Molla	Bidur Roy
Mijanur Molla	Ishaan Mitra
Mijanur Molla	Mahendra Das
Rahul Chatterjee	Bidur Roy
Rahul Chatterjee	Mahendra Das
Rahul Das	Mahendra Das
Rahul Das	Pablo Ruiz Picasso
Rahul Das	Vincent Willem van Gogh
Sumedha Bhattacharya	Bidur Roy

Continued on next page...

6. Table like_group

customer_name	group_name
Mijanur Molla	19th Century Paintings
Mijanur Molla	Abstract Sculpture
Mijanur Molla	Classical Sculptures
Rahul Chatterjee	Portrait
Rahul Chatterjee	Still Life
Rahul Das	Abstract Sculpture
Rahul Das	Classical Sculptures
Rahul Das	Works by Picasso
Rahul Das	Works by Van Gogh
Sumedha Bhattacharya	19th Century Paintings
Sumedha Bhattacharya	Still Life
Sumedha Bhattacharya	Works by Van Gogh

7. Table orders:

The column price_bought_at stores the price of an artwork, this is to ensure that the bill details do not change if the artwork's price is changed in table artwork (say, due to increased demand).

order_id	customer_name	title	qty	order_date	price_bought_at
1	Rahul Das	Apple in bowl	10	2021-04-11	1200.00
2	Rahul Das	la courtisane	10	2021-04-01	60000.00
3	Rahul Das	Fruits	3	2021-05-05	1900.00
4	Rahul Chatterjee	Apple in bowl	5	2021-04-28	1200.00
5	Sumedha Bhattacharya	SLP1	5	2021-03-10	1000.00
6	Rahul Chatterjee	Monalisa	1	2021-05-03	450000.00
7	Mijanur Molla	Chicagoian Picasso	1	2021-05-07	100000.00
8	Rahul Chatterjee	The Yellow House	11	2021-04-22	3500.00
9	Mijanur Molla	Vegetables	1	2021-04-30	6000.00
10	Mijanur Molla	Apple in bowl	1	2021-04-12	1200.00
11	Rahul Das	Apple in bowl	5	2021-04-07	1200.00
12	Mijanur Molla	Apple in bowl	4	2021-03-09	1200.00
13	Mijanur Molla	Gretchen	15	2021-04-15	12000.00

Continued on next page...

8. Table users:

This table is used only for logging into the Administrator panel. It stores the login credentials of the administrators of the system, and compared to hard-coding the administrator password, allows for easy changing as well as allowing the presence of more than one administrator.

username	password
admin	adminsOnly

Continued on next page...

TABLE CREATION SCHEMA

The following screenshots show the SQL queries required to create the different tables, as reported by the SQL command in MariaDB: show create table `tablename`.

1. Table Artist:

```
MariaDB [artgallery]> show create table artist
-> ;

+-----+
| Table | Create Table |
+-----+
| artist | CREATE TABLE 'artist' (
  'artist_name' varchar(128) NOT NULL,
  'dob' date NOT NULL,
  'birth_place' varchar(128) NOT NULL,
  'style_of_art' varchar(64) DEFAULT NULL,
  'age' int(11) GENERATED ALWAYS AS (year(curdate()) - year('dob')) VIRTUAL,
  PRIMARY KEY ('artist_name')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+
```

2. Table Artwork:

```
MariaDB [artgallery]> show create table artwork;

+-----+
| Table | Create Table |
+-----+
| artwork | CREATE TABLE 'artwork' (
  'title' varchar(128) NOT NULL,
  'artist_name' varchar(128) NOT NULL,
  'year' int(4) NOT NULL,
  'type_of_art' varchar(128) NOT NULL,
  'group_name' varchar(128) NOT NULL,
  'image' varchar(255) DEFAULT NULL,
  'price' decimal(12,2) DEFAULT NULL,
  'pieces' int(11) NOT NULL,
  PRIMARY KEY ('title'),
  KEY 'fkey_artwork_artist' ('artist_name'),
  KEY 'fkey_artwork_groups' ('group_name'),
  CONSTRAINT 'fkey_artwork_artist' FOREIGN KEY ('artist_name') REFERENCES 'artist' ('artist_name'),
  CONSTRAINT 'fkey_artwork_groups' FOREIGN KEY ('group_name') REFERENCES 'groups' ('group_name')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+
1 row in set (0.000 sec)
```

3. Table groups:

```
MariaDB [artgallery]> show create table groups;

+-----+
| Table | Create Table |
+-----+
| groups | CREATE TABLE 'groups' (
  'group_name' varchar(128) NOT NULL,
  'description' text NOT NULL,
  'status' tinyint(1) NOT NULL DEFAULT 1,
  PRIMARY KEY ('group_name')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+
1 row in set (0.000 sec)
```

4. Table customer:

```
MariaDB [artgallery]> show create table customer;

+-----+
| Table | Create Table |
+-----+
| customer | CREATE TABLE 'customer' (
  'customer_name' varchar(128) NOT NULL,
  'password' varchar(256) NOT NULL,
  'address' varchar(256) NOT NULL,
  'amount' decimal(16,2) DEFAULT 0.00,
  PRIMARY KEY ('customer_name'),
  CONSTRAINT 'cust_amt_pos' CHECK ('amount' >= 0.0)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+
1 row in set (0.000 sec)
```

5. Table like_artist:

```
MariaDB [artgallery]> show create table like_artist;

+-----+
| Table | Create Table |
+-----+
| like_artist | CREATE TABLE 'like_artist' (
  'customer_name' varchar(128) NOT NULL,
  'artist_name' varchar(128) NOT NULL,
  PRIMARY KEY ('customer_name', 'artist_name'),
  KEY 'fkey_likeartist_artist' ('artist_name'),
  CONSTRAINT 'fkey_likeartist_artist' FOREIGN KEY ('artist_name') REFERENCES 'artist' ('artist_name'),
  CONSTRAINT 'fkey_likeartist_cust' FOREIGN KEY ('customer_name') REFERENCES 'customer' ('customer_name')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+
1 row in set (0.000 sec)
```

Continued on next page...

6. Table like_group:

```
MariaDB [artgallery]> show create table like_group;
+-----+-----+
| Table | Create Table |
+-----+-----+
|
+-----+-----+
| like_group | CREATE TABLE `like_group` (
  `customer_name` varchar(128) NOT NULL,
  `group_name` varchar(128) NOT NULL,
  PRIMARY KEY (`customer_name`, `group_name`),
  KEY `fkey_lkggrp_grp` (`group_name`),
  CONSTRAINT `fkey_lkggrp_cust` FOREIGN KEY (`customer_name`) REFERENCES `customer` (`customer_name`),
  CONSTRAINT `fkey_lkggrp_grp` FOREIGN KEY (`group_name`) REFERENCES `groups` (`group_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+-----+
1 row in set (0.000 sec)
```

7. Table orders:

```
MariaDB [artgallery]> show create table orders;
+-----+-----+
| Table | Create Table |
+-----+-----+
|
+-----+-----+
| orders | CREATE TABLE `orders` (
  `order_id` int(11) NOT NULL AUTO_INCREMENT,
  `customer_name` varchar(255) NOT NULL,
  `title` varchar(255) NOT NULL,
  `qty` int(11) NOT NULL DEFAULT 1,
  `order_date` date DEFAULT curdate(),
  `price_bought_at` decimal(28,2) NOT NULL DEFAULT 0.00,
  PRIMARY KEY (`order_id`),
  KEY `fkey_orders_cust` (`customer_name`),
  KEY `fkey_orders_artk` (`title`),
  CONSTRAINT `fkey_orders_artk` FOREIGN KEY (`title`) REFERENCES `artwork` (`title`),
  CONSTRAINT `fkey_orders_cust` FOREIGN KEY (`customer_name`) REFERENCES `customer` (`customer_name`)
) ENGINE=InnoDB AUTO_INCREMENT=14 DEFAULT CHARSET=utf8mb4 |
+-----+-----+
1 row in set (0.000 sec)
```

8. Table users:

```
MariaDB [artgallery]> show create table users;
+-----+-----+
| Table | Create Table |
+-----+-----+
| users | CREATE TABLE `users` (
  `username` varchar(128) NOT NULL,
  `password` varchar(128) NOT NULL,
  PRIMARY KEY (`username`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+-----+
1 row in set (0.000 sec)
```

This concludes the end of the screenshots of the implementation.