



**INSTITUTE FOR ADVANCED COMPUTING
AND SOFTWARE DEVELOPMENT (IACSD),
AKURDI, PUNE**

Documentation On

Art O' Craft

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Project Guide

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ABSTRACT

This document includes all the information required to create ,style and implement website for online art and gallery. Nowadays, instead of visiting actual stores people prefers online services. This system allow customers to shop for different artforms online while sitting at home or any location provided it has fair network.

This will be beneficial for both artists and customers. Artists will be able to promote their arts and also can sell their artforms. While, customers can buy those arts without visiting actual store.

ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavour to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, **Mrs. Rupali Thorat** for providing me with the right guidance and advice at the crucial juncture and for showing me the right way. I extend my sincere thanks to our respected **Centre Co-Ordinator Mr. Rohit Puranik**, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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INTRODUCTION

This software requirement specification includes all the information required to create ,style and implement website for online art and gallery. Artists need to register themselves so can put their artforms for sale. Customers can buy different sketches , paintings , crafts from various registered artists. Also ,there is online payment gateway option available for making payments.

Features: -

- Separate login for admin, artists and customers.
- Easy to add or update artists and customers .
- Easy to search arts by artists name .
- Admin can maintain lists of artists , customers , orders and products.

1.1 PROJECT OBJECTIVE :

The main functionality of this project is that, accessing art details of various registered artists and making request for the same from anywhere anytime and from any platform or device. There is an online billing and accounting . In this system the bills and receipts are easily maintained and also the system is user friendly .

1.2 PROJECT OVERVIEW

This project consists of three different modules namely admin , artists and customers .

Admin can login into system using their username and password. They can maintain list of registered artists and customers. Also , admins can maintain list of products and orders.

Artists first need to register themselves to access the system. Once registered , then they can add their various arts for sale . Artists can update information about arts like art description , art price , etc .

Customers can search arts by various artists using artist name. Once found they can add them to cart or place order for the same. Then , they can make payment using online payment gateway.

1.3 PROJECT SCOPE

This system provides friendly user interface to every u s e r of the system. This application will help people to buy different arts from various artists while sitting at home. This will be beneficial to all the people who cannot visit arts tore directly or couldn't make time for the same. It helps to understand the needs of the customers and to overcome the manual work of the documentation and make it online which will be feasible and flexible and try to make it user friendly. Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

1.4 STUDY OF THE SYSTEM

1.4.1 Modules

This system consists of three different modules.

- Admin
- Artists
- Customers

Admins :

- 1) Login into system
- 2) Update and maintain orders and products
- 3) Maintain list of artists and customers

Artists :

- 1) Register into system
- 2) Update their database
- 3) Add various artforms
- 4) Maintain database

Customers :

- 1) Register into system
- 2) Update their database
- 3) Search for various artforms using artist name
- 4) Maintain database
- 5) Add arts to cart
- 6) Place order
- 7) Make payment

SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems, and using the information to recommend improvements on the system. System analysis is a problem-solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified, and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

EXISTING SYSTEM

The current system for art gallery maintain pen and paper data to add new arts of various artists.

- ☐ It is less customer-friendly.

- ☐ Customer has to visit store every time if they wish to buy or even see arts.
- ☐ It is difficult to put arts of many artists at one place as large space will be required for the same.
- ☐ Store owner has to maintain the whole paper work describing the details flats and their owners.
- ☐ It is a time-consuming process
- ☐ Not in reach of distant users.

PROPOSED SYSTEM

The proposed system provides friendly user interface to every user of the system. This application will help artists and customers with clear visibility and smooth functioning. This will be beneficial to all the users who travel abroad and who cannot make time to visit store every time if they wish to see or buy the product. As this system is available online, members will have an access to it. It understands the needs of the customers and to overcome the manual work of the documentation and make it online which will be feasible and flexible and try to make it user friendly. Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

2.3 SYSTEM REQUIREMENT SPECIFICATION

2.3.1 GENERAL DESCRIPTION

Product Description:

The art and gallery store allows customers and artists to register themselves to have access to the system. This system allows artists to put up their arts for sale. Customers can login into system and then make request for different arts if they want to buy them.

Problem Statement:

Going to actual physical store to buy various arts can be time consuming and tedious process. Also for visiting actual store, customers need to travel for miles if shop is far away. So to avoid it, there is online shop where artists can promote their arts and customers can buy them without actually visiting store thus reducing travel expenses and without wasting time for the same.

2.3.2 SYSTEM OBJECTIVES

To provide website for art and gallery store.

2.3.3 SYSTEM REQUIREMENTS

2.3.3.1 Functional requirements

- Admin login into system
- Admin update and maintain orders and products
- Admin maintain list of artists and customers
- Artists register into system
- Artists update their database
- Artists add various artforms
- Artist maintain database
- Customers register into system
- Customers update their database
- Customers search for various artforms using artist name
- Customers maintain database
- Customers add arts to cart
- Customers place order and make payment

2.3.3.2 Non-functional requirements

❖ Performance

This website can perform thoroughly without any crashes. So it has high performance.

❖ Reliability

This website is robust. User can rely on it.

❖ Availability

This website is available 24/7 throughout . User can access it anytime from anywhere .

❖ Security

As we have stored our data on mysql which is prominent in its security, users can rest assured about privacy of their data. This website will provide secure environment for both artists and customers so that they can put up their personal details such as contact or interests without any doubts.

❖ Portability

Customers can access website from their laptops as well as mobile devices as system is portable. It can be accessible from stationary as well as mobile devices.

SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. Its emphasis on translating design. Specifications to performance specification. System design has two phases of development :

- Logical design
- Physical design

During logical design phase the analyst describes inputs (sources), outputs(destinations), databases (data sores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

3.1 INPUT AND OUTPUT DESIGN

3.1.1 INPUT DESIGN:

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry operators can be controlled by input design. The user-originated inputs are converted to a computer-based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

3.1.2 OUTPUT DESIGN:

Computer output is the most important and direct source of information to the user. Output design is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications

DATABASE DESIGN

3.2 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- ☐ Primary key - the field that is unique for all the record occurrences
- ☐ Foreign key - the field used to set relation between tables

Normalization is a technique to avoid redundancy in the tables.

3.3 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

3.3.1 FRONT END:

React is a library which is developed by Facebook are utilized to implement the frontend. React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

3.3.2 BACKEND:

The back end is implemented using MySQL which is used to design databases.

MySQL:

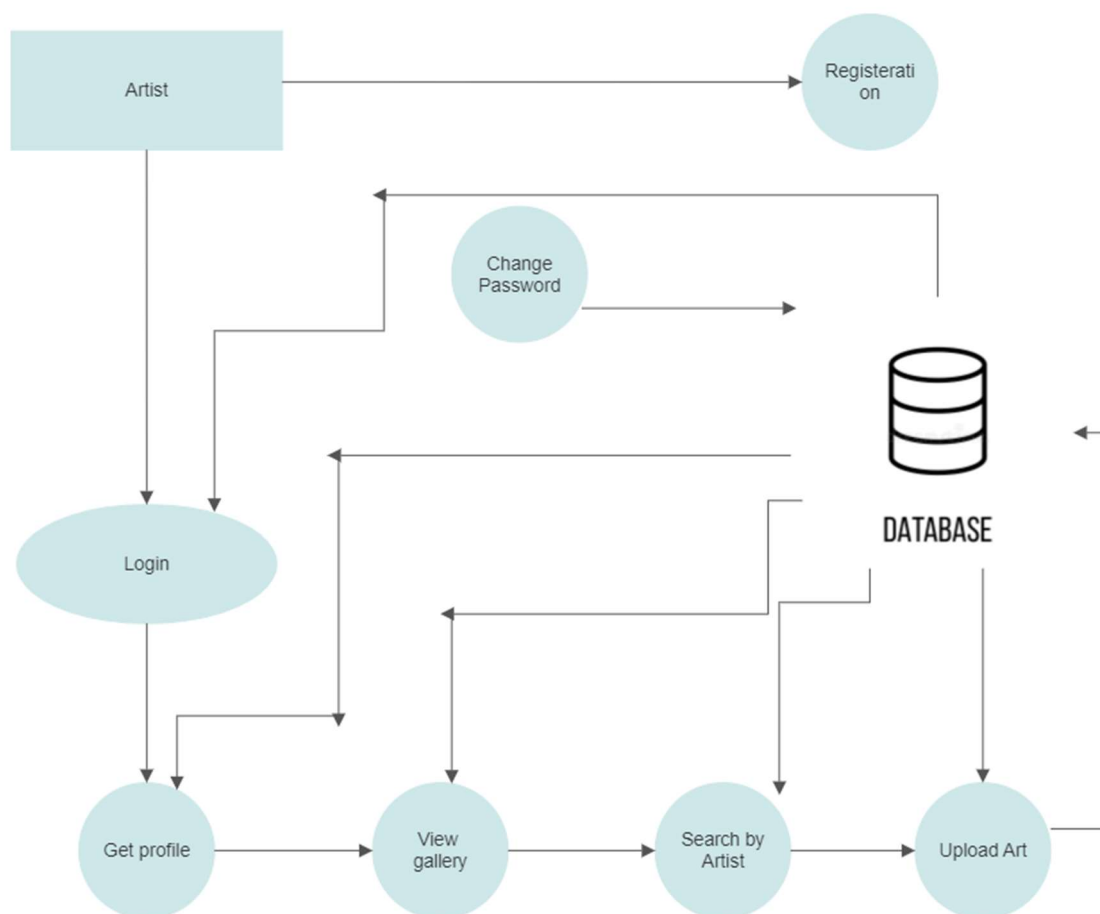
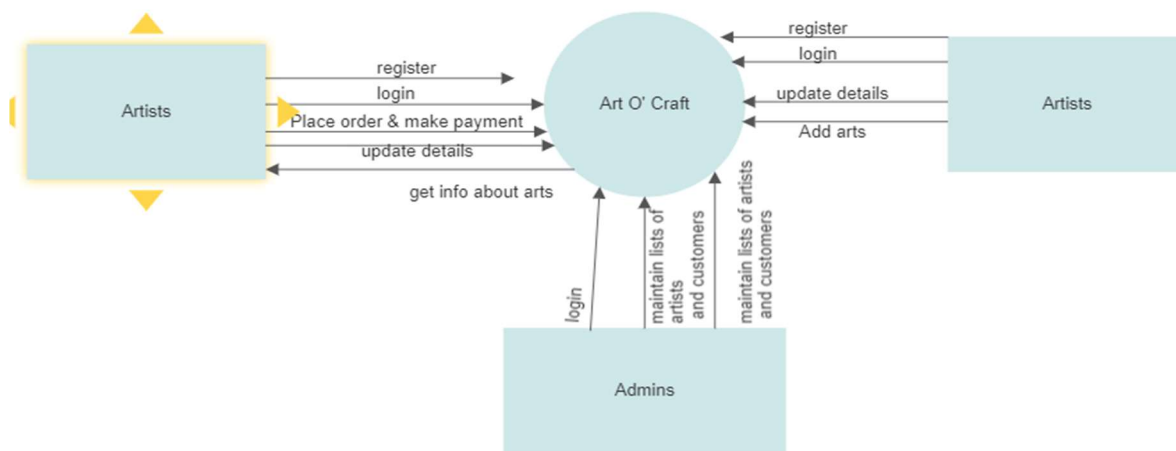
MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language.

Spring-Boot:

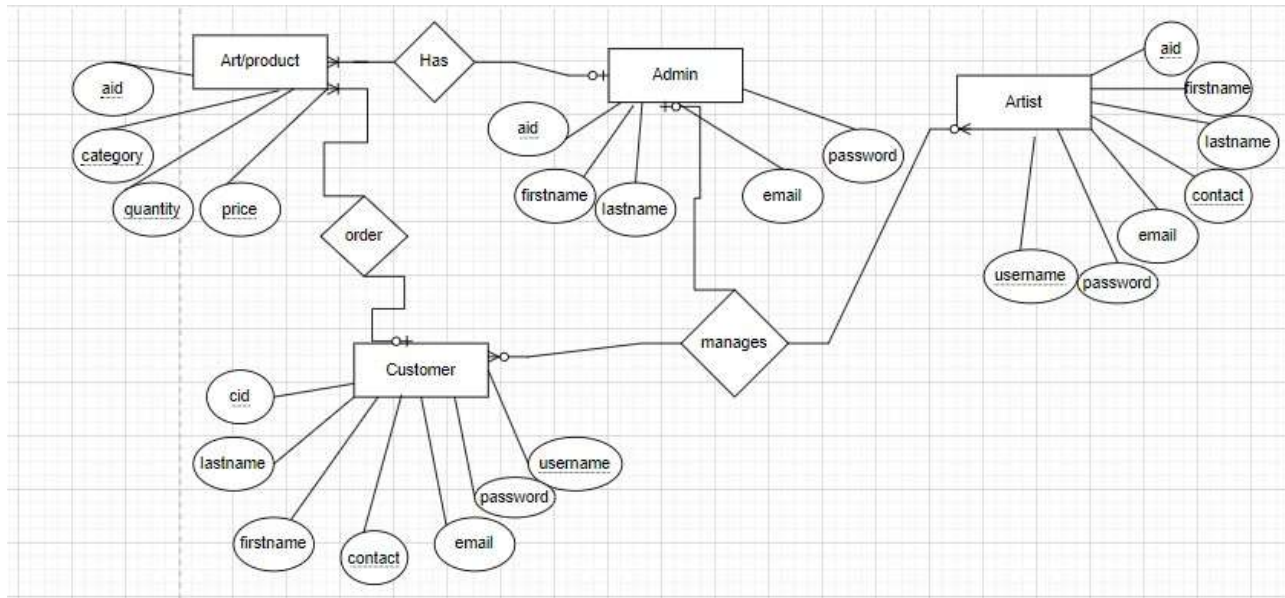
This is used to connect MYSQL and fetch data from database and store the data in database. The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Open-source Framework.

UML Diagrams :

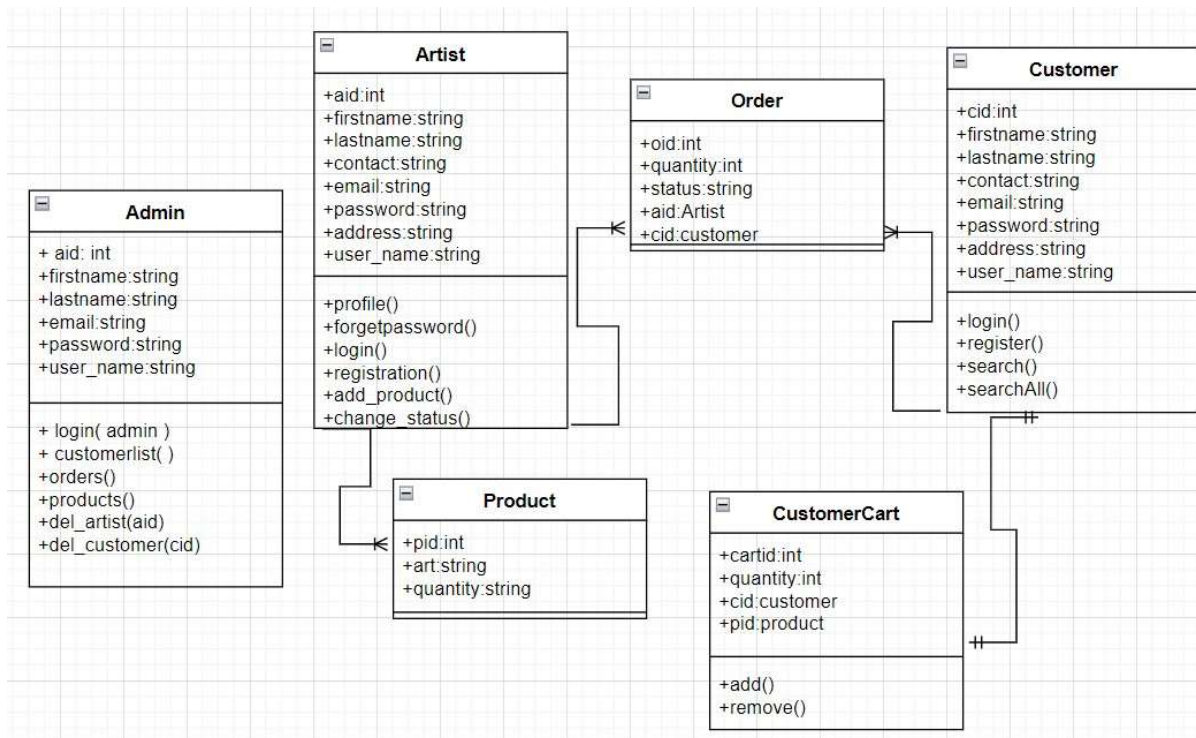
1) Data flow diagram



2) ER diagram

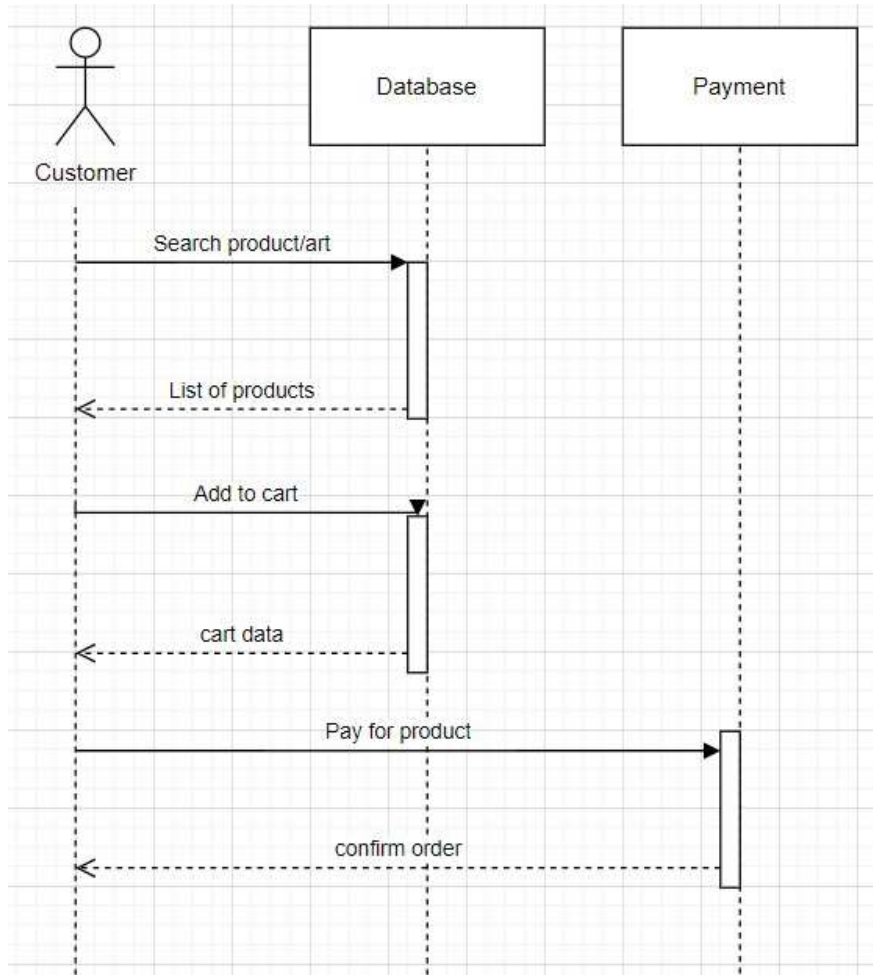


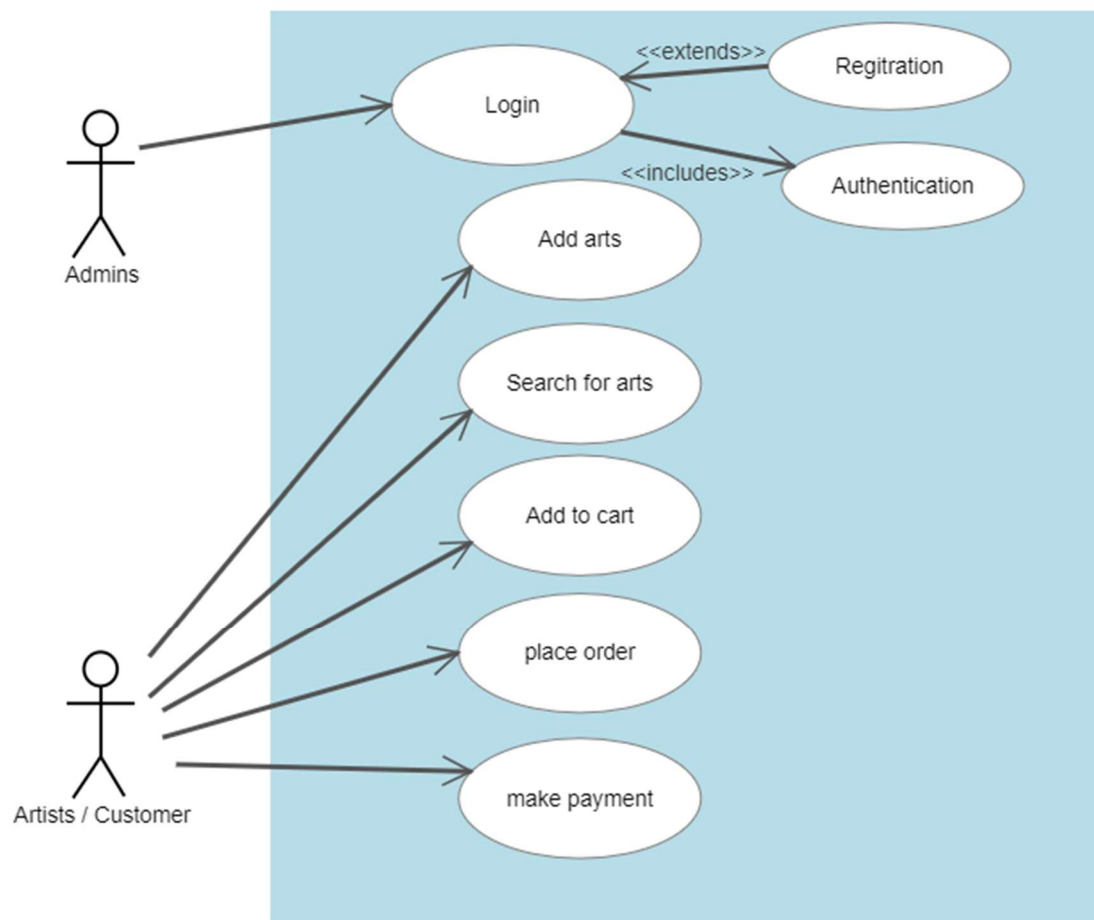
3) Class diagram

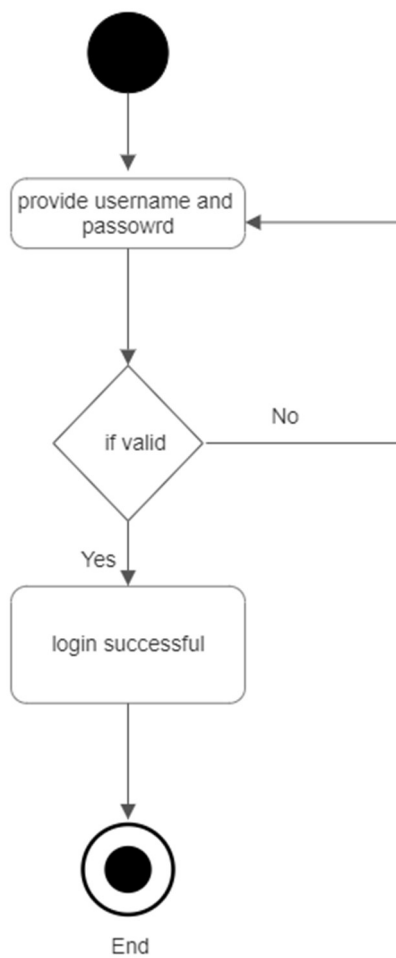


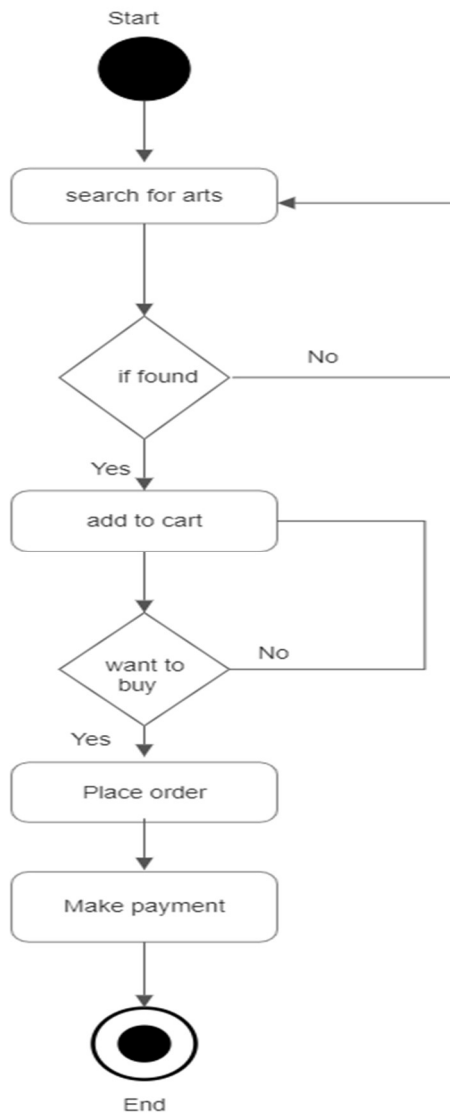
4) Sequence diagram

- To place order and make payment



5) Use case diagram

6) Activity diagram**Activity diagram for login**



Activity diagram to place order and make payment

Table structure :

Tables in artgallery123
admins
artists
customercart
customers
orders
products

1) admins :

Field	Type	Null	Key	Default	Extra
aid	int	NO	PRI	NULL	Auto_increment
email	varchar(255)	YES		NULL	
firstname	varchar(255)	YES		NULL	
lastname	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
user_name	varchar(255)	YES		NULL	

2) artists :

Field	Type	Null	Key	Default	Extra
aid	int	NO	PRI	NULL	Auto_increment
address	varchar(255)	YES		NULL	
contact	varchar(11)	YES		NULL	
email	varchar(255)	YES		NULL	
firstname	varchar(255)	YES		NULL	
lastname	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
user_name	varchar(255)	YES		NULL	

3) customers:

Field	Type	Null	Key	Default	Extra
cid	int	NO	PRI	NULL	Auto_increment
address	varchar(255)	YES		NULL	
contact	varchar(11)	YES		NULL	
email	varchar(255)	YES		NULL	
firstname	varchar(255)	YES		NULL	
lastname	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
user_name	varchar(255)	YES		NULL	

4) products :

Field		Type	Null	Key	Default	Extra
pid		int	NO	PRI	NULL	Auto_increment
art		varchar(255)	YES		NULL	
expected_price		double	YES		NULL	
quantity		double	YES		NULL	
aid		int	YES		NULL	

5) orders:

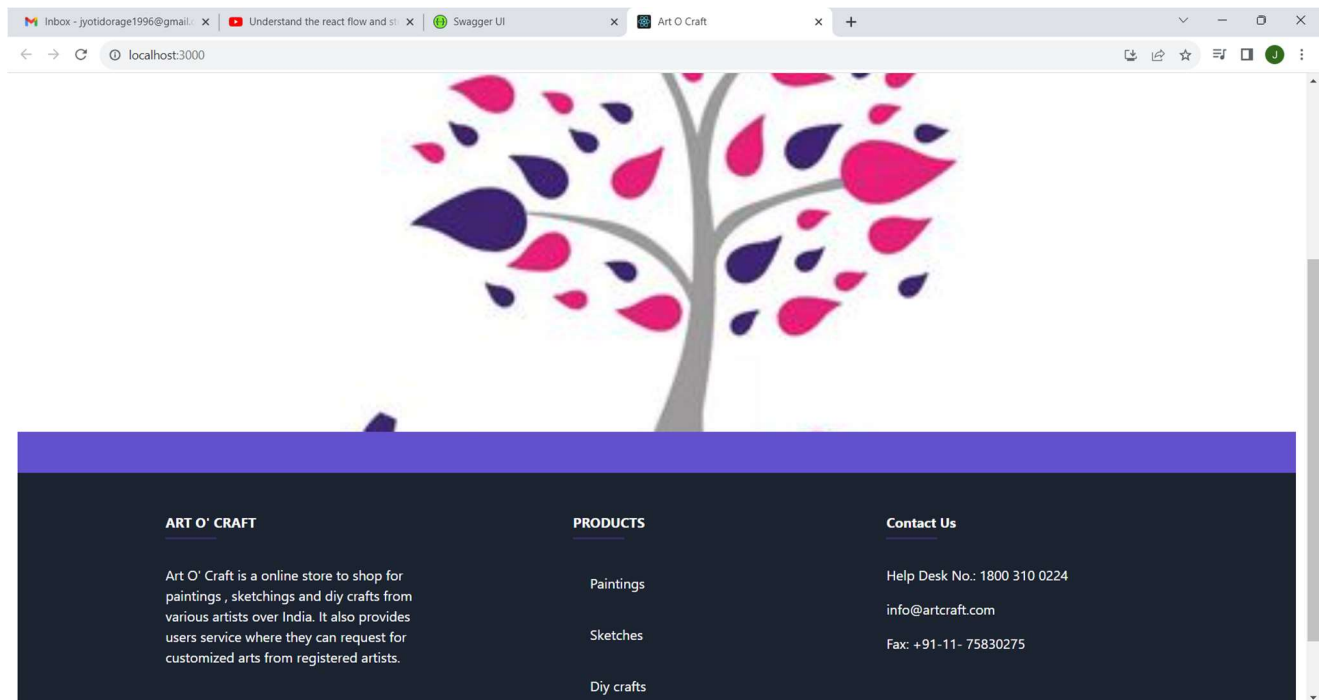
Field	Type	Null	Key	Default	Extra
oid	int	NO	PRI	NULL	Auto_increment

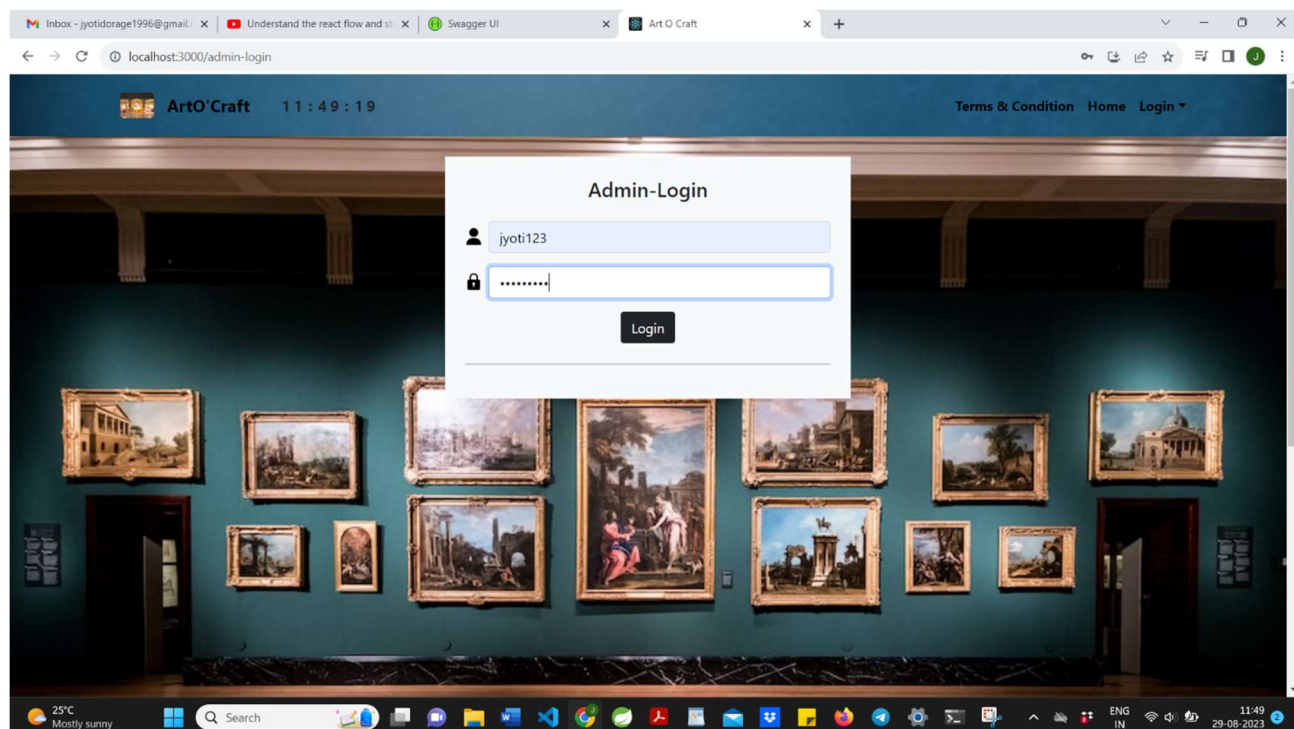
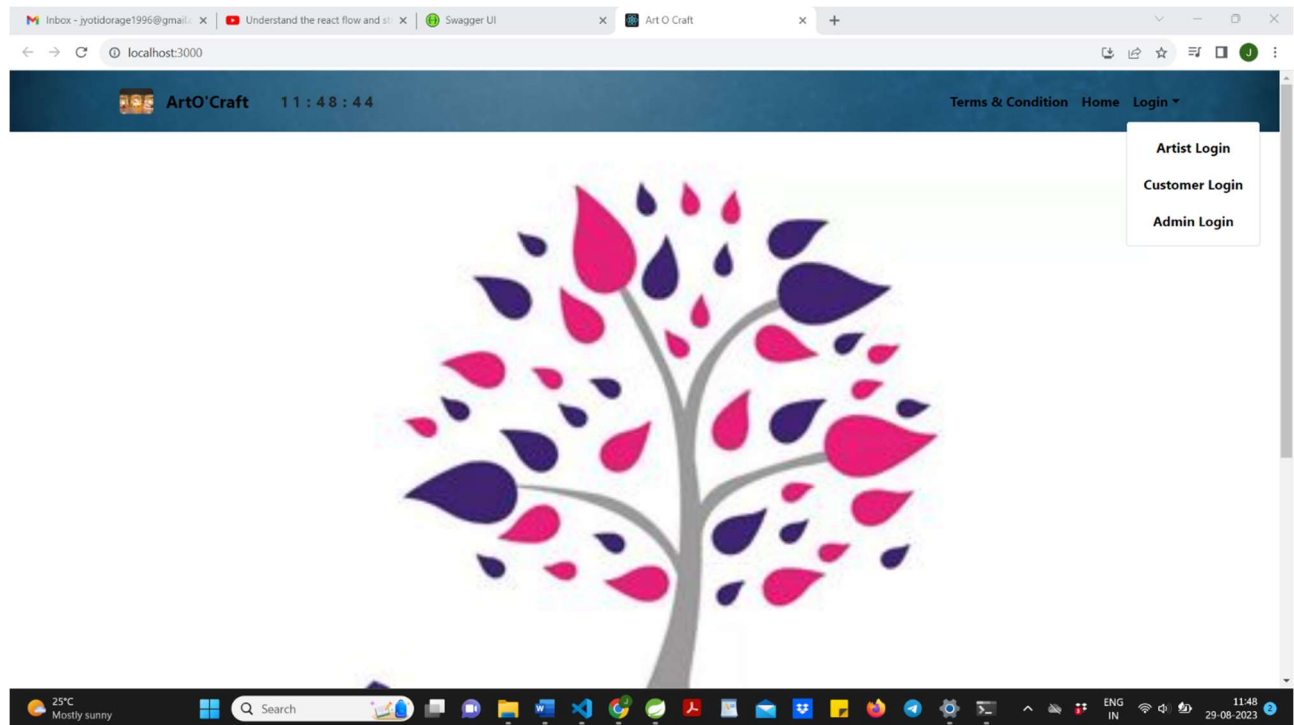
art_category	varchar(255)	YES		NULL	
quantity	double	YES		NULL	
status	double	YES		NULL	
total_amount	varchar(255)	YES		NULL	
aid	int	MUL		NULL	
cid	int	MUL		NULL	

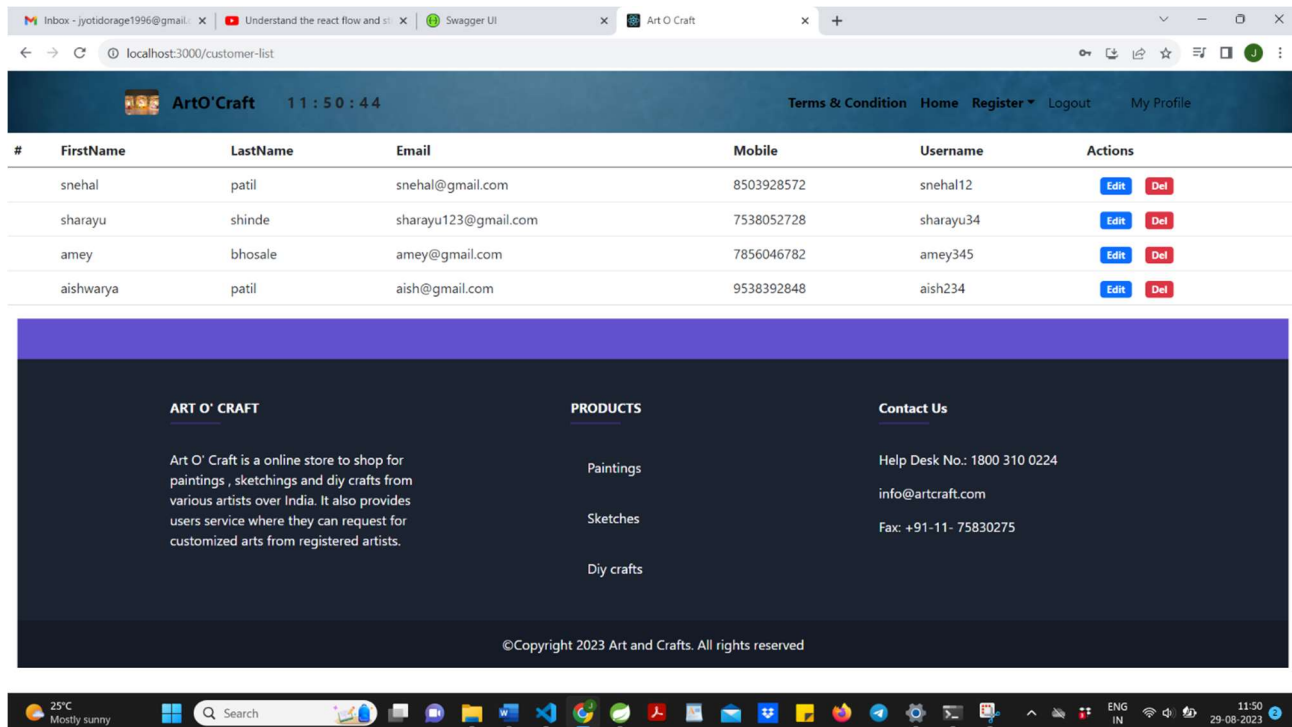
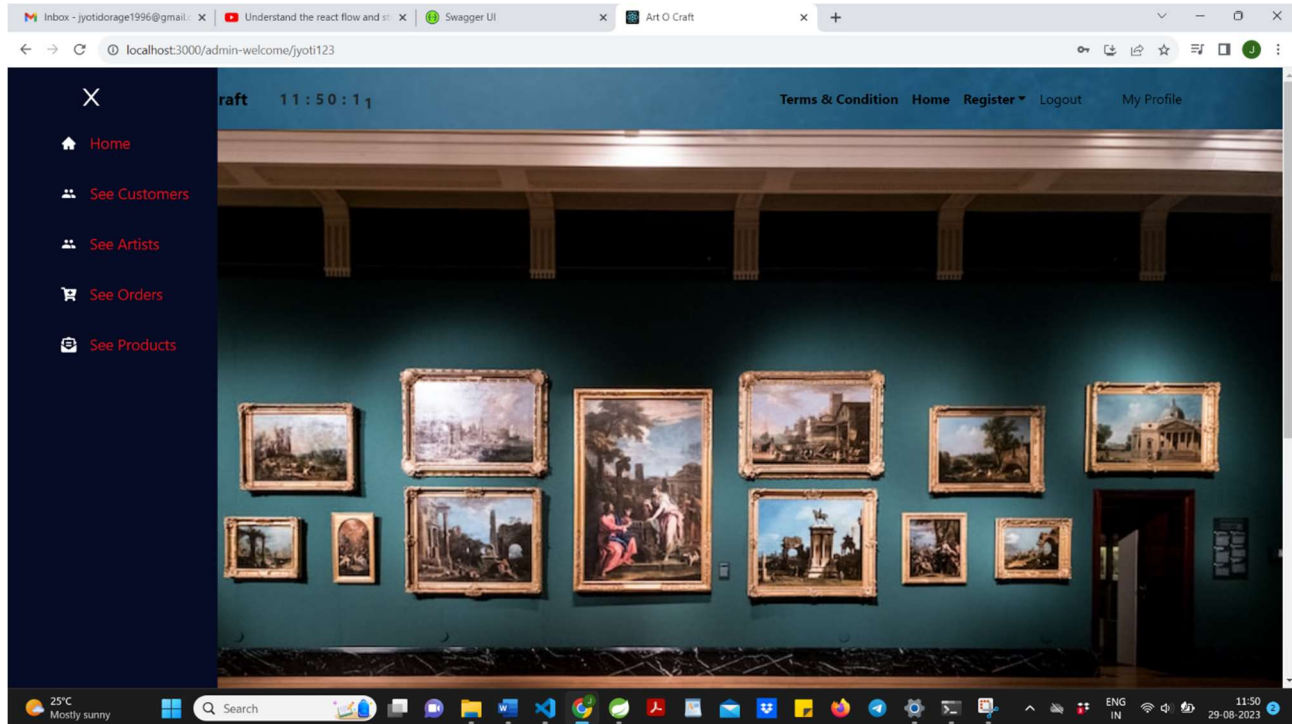
6) customercart :

Field	Type	Null	Key	Default	Extra
cartid	int	NO	PRI	NULL	Auto_increment
art	varchar(255)	YES		NULL	
artistname	varchar(255)	YES		NULL	
customer_username	varchar(255)	YES		NULL	
expected_price	double	YES		NULL	
quantity	double	YES		NULL	

Project Screenshots :







Art O' Craft 11:51:11

Terms & Condition Home Register Logout My Profile

#	FirstName	LastName	Email	Mobile	Username	Actions
minal	chavan	minal@gmail.com	8963704268	minal96	Edit Del	
aakanksha	gandhi	aakanksha@gmail.com	8580931587	gandhi72	Edit Del	
raj	sharma	rajsharma@gmail.com	7685949384	sharma34	Edit Del	
priyanka	belpatre	priyanka@gmail.com	9473728472	priyanka96	Edit Del	
rahul	rao	rahulrao@gmail.com	9525805423	rahul99	Edit Del	
vishal	raykar	vishal@gmail.com	6674923024	vishal95	Edit Del	
ashwini	dorge	jyotidorage1996@gmail.com	9654628184	ash1995	Edit Del	

ART O' CRAFT

Art O' Craft is a online store to shop for paintings , sketchings and diy crafts from various artists over India. It also provides users service where they can request for customized arts from registered artists.

PRODUCTS

- Paintings
- Sketches
- Diy crafts

Contact Us

Help Desk No.: 1800 310 0224
 info@artcraft.com
 Fax: +91-11- 75830275

Art O' Craft 11:51:41

Terms & Condition Home Register Logout My Profile

Oid	Artist name	Customer Name	Art	Quantity	Amount	status
1	raj sharma	snehal patil	fivehorses	1	35000	pending

ART O' CRAFT

Art O' Craft is a online store to shop for paintings , sketchings and diy crafts from various artists over India. It also provides users service where they can request for customized arts from registered artists.

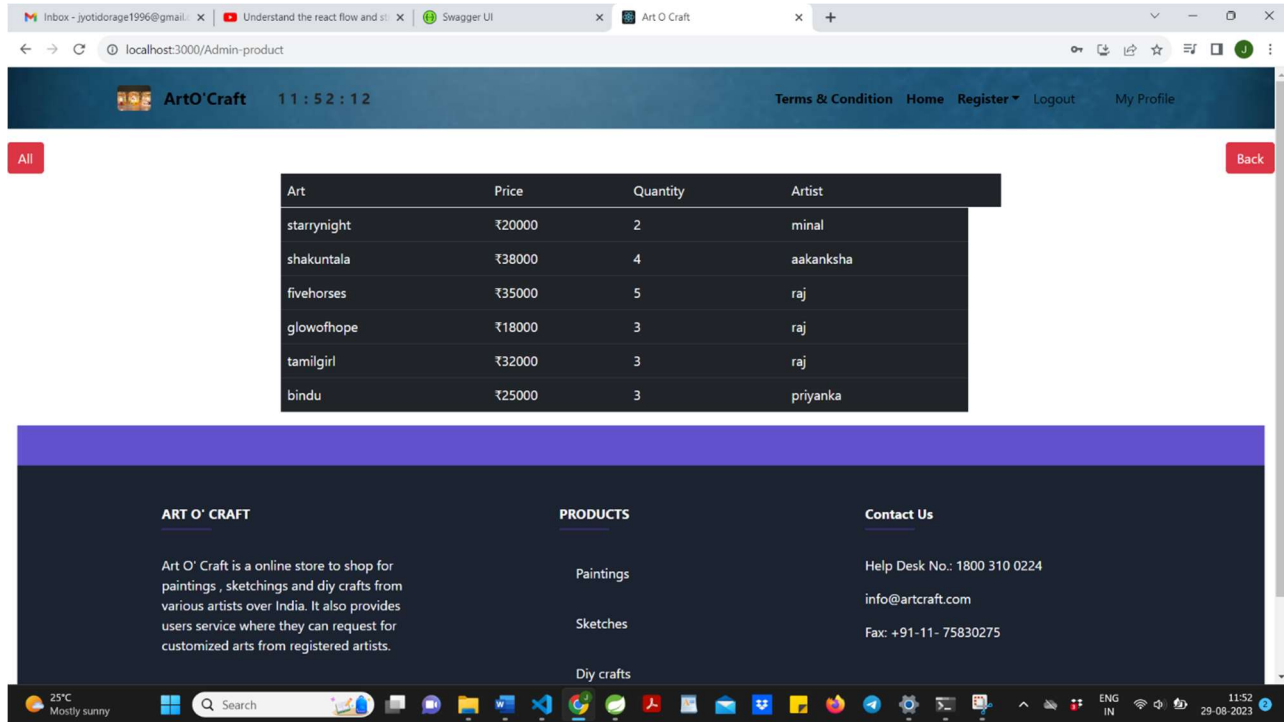
PRODUCTS

- Paintings
- Sketches
- Diy crafts

Contact Us

Help Desk No.: 1800 310 0224
 info@artcraft.com
 Fax: +91-11- 75830275

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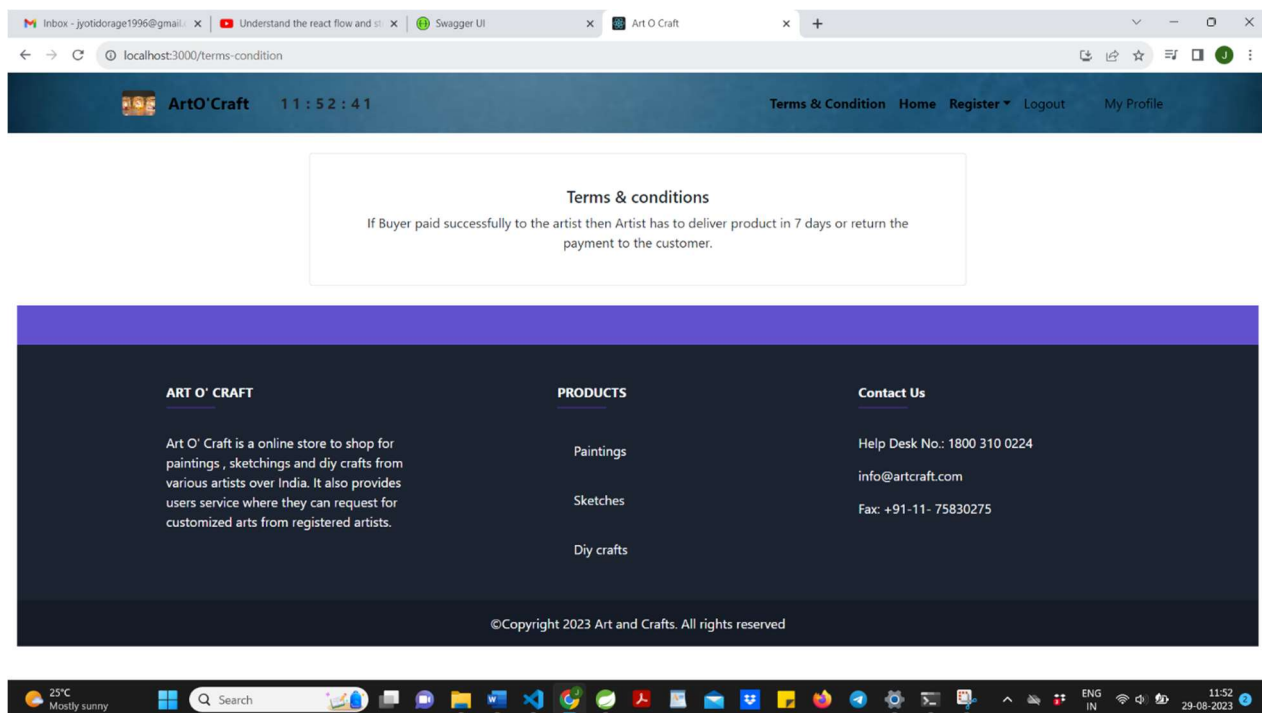
The screenshot shows the 'Admin-product' page of the Art O' Craft application. The browser's address bar displays 'localhost:3000/Admin-product'. The page features a dark blue header with the site logo, name, and navigation links. A table lists various art products with their prices, quantities, and artists. Below the table is a footer section with three columns: 'ART O' CRAFT' (description), 'PRODUCTS' (Paintings, Sketches, Diy crafts), and 'Contact Us' (Help Desk No., email, Fax). The Windows taskbar at the bottom shows the date as 29-08-2023 and the time as 11:52.

Art	Price	Quantity	Artist
starrynight	₹20000	2	minal
shakuntala	₹38000	4	aakanksha
fivehorses	₹35000	5	raj
glowofhope	₹18000	3	raj
tamilgirl	₹32000	3	raj
bindu	₹25000	3	priyanka

ART O' CRAFT
Art O' Craft is a online store to shop for paintings , sketchings and diy crafts from various artists over India. It also provides users service where they can request for customized arts from registered artists.

PRODUCTS
Paintings
Sketches
Diy crafts

Contact Us
Help Desk No.: 1800 310 0224
info@artcraft.com
Fax: +91-11- 75830275



The screenshot shows the 'Terms & Conditions' page of the Art O' Craft application. The browser's address bar displays 'localhost:3000/terms-condition'. The page features a dark blue header with the site logo, name, and navigation links. A central white box contains the 'Terms & conditions' text. Below this is a footer section with three columns: 'ART O' CRAFT' (description), 'PRODUCTS' (Paintings, Sketches, Diy crafts), and 'Contact Us' (Help Desk No., email, Fax). The Windows taskbar at the bottom shows the date as 29-08-2023 and the time as 11:52.

Terms & conditions
If Buyer paid successfully to the artist then Artist has to deliver product in 7 days or return the payment to the customer.

ART O' CRAFT
Art O' Craft is a online store to shop for paintings , sketchings and diy crafts from various artists over India. It also provides users service where they can request for customized arts from registered artists.

PRODUCTS
Paintings
Sketches
Diy crafts

Contact Us
Help Desk No.: 1800 310 0224
info@artcraft.com
Fax: +91-11- 75830275

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localhost:3000/customer-reg

Customer-Registration

neha

nikam

neha123@gmail.com

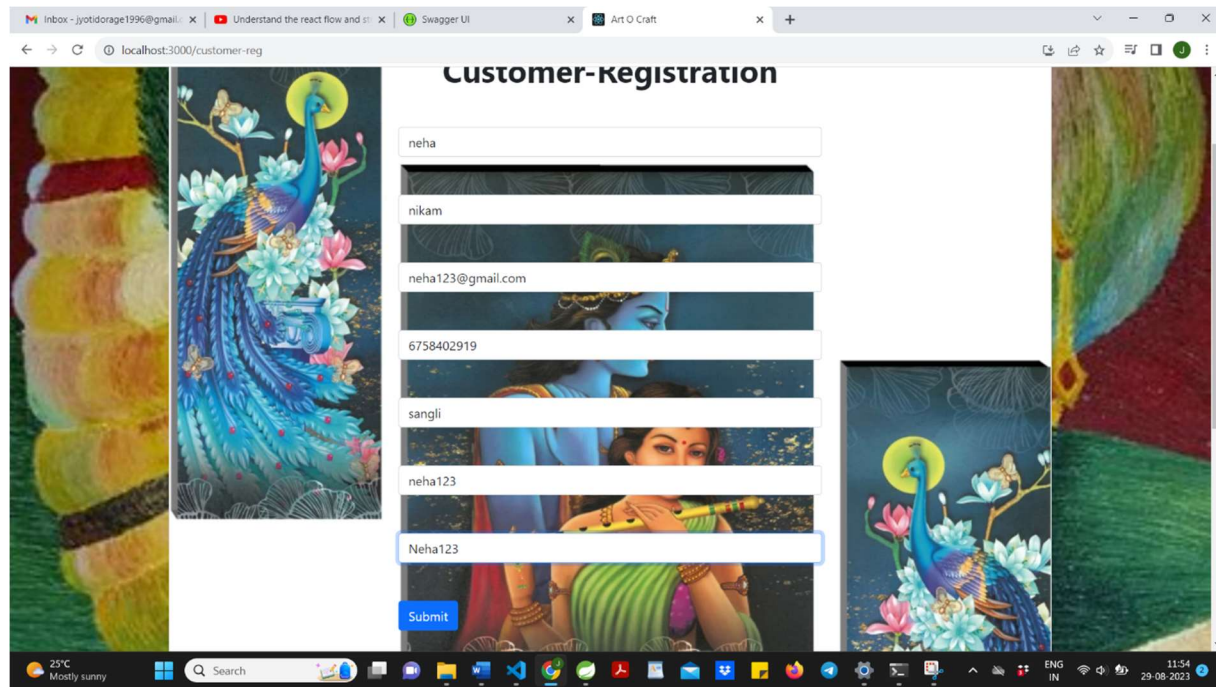
6758402919

sangli

neha123

Neha123

Submit

A screenshot of a web browser showing a 'Customer-Registration' form. The form is centered on a page with a dark blue background featuring a peacock and a woman. The form fields are white with black text. The fields are: Username (neha), Email (nikam), Password (neha123@gmail.com), Phone Number (6758402919), Address (sangli), and a second Password field (neha123). A blue 'Submit' button is at the bottom of the form.

localhost:3000/customer-login

Customer-Login

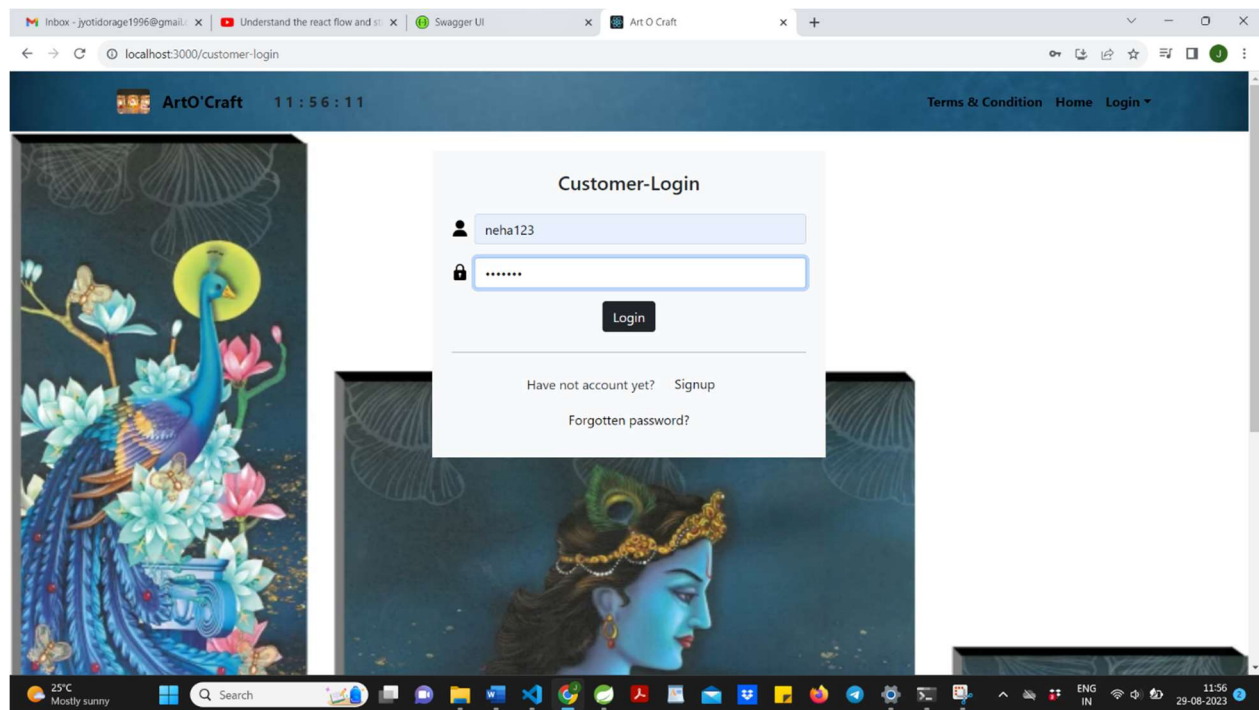
neha123

.....

Login

Have not account yet? Signup

Forgotten password?

A screenshot of a web browser showing a 'Customer-Login' form. The form is centered on a page with a dark blue background featuring a peacock and a woman. The form fields are white with black text. The fields are: Username (neha123) and Password (.....). A black 'Login' button is at the bottom of the form. Below the form, there are links: 'Have not account yet? Signup' and 'Forgotten password?'. The browser's address bar shows 'localhost:3000/customer-login'.

Conclusion :

This project aid in automating the existing manual system. This is a paperless work. It can be monitored and guarded remotely also provide accurate information . Online art gallery Store the customer can purchase various artforms online. It is different from the traditional physical stores as it helps to overcome problem of limited space and narrow sales channels and other issues, for people to purchase arts. Online art gallery store system can easily find the information and purchase artforms. Also the operating conditions are simple, user-friendly, to a large extent to solve real-life problems in the purchase of arts.

Future Scope :

As for other future developments, the following can be done: Artists can categorized different artforms like for paintings (portraits , charcoal painting , color painting , abstract painting), diy crafts(greetings , scrapbook , home decor) and sketches. Customers can request for customized artforms from various artists which are registered into the system.

