IACSD

INSTITUTE FOR ADVANCED
COMPUTING AND
SOFTWARE DEVELOPMENT
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Documentation On

"ART GALLERY"
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Project Guide

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1. INTRODUCTION

Online **Art Gallery is** an online application, which is used to display and sell art works of artist irrespective of their nationality, gender and other narrow consideration, through auction. Artist can register online for being a member in the art gallery and each artist can upload the digital copy of their art work under the respective categories. They can host their art work either for auction or for fixed price. The artist is liable to pay a fraction of the price of each art work to the web site to find the running fund for site. Art lovers have to go to the art exhibition to collect their favorite arts or painting. But now-a-days they are not getting enough time to go to the galleries and collect the arts and paintings.

Project Modules and description:-

1.Arts Module:

The main aim for developing this module is to manage the arts. This arts module is the main module in this project which has been developed on **JAVA,JSP and MYSQL.** All the arts are managed by admin. It tracks all the information of the arts. We have developed all type of CRUD(Create, Read, Update and Delete) operations of the arts. Customer will be able to see his arts details.

<u>Features of arts Module:</u>
- Admin can manage the arts
- Admin can edit/delete the arts
- Admin can see the list of all arts
- Customer can see his arts

2.Order Update Module:
The main aim of this module is to provide all functionality related to order update. It tracks all the information and details of the order update. Admin will manage all order update and customer will able to see their orders.
<u>Features of order update Module:</u>
- Admin can add new order update
- Admin can see the list of order update details
- Only admin can edit and update the record of the order update
- Admin will able to delete the records of the order update
- All order update forms are validated on client side using JavaScript

3.Customer Module:

The main aim of this module is to provide all the functionality related to customer. It tracks all the information of the customer. We have developed all type of CRUD operations of the customer. This is a role based module where admin can perform each and every operations on the data but the customer will be able to view only his/her data, so access level restrictions has also been implemented on the project.

Feature of customer Module:
- Admin can add new customer records
- Admin can see the list of customer details
- Only admin can edit and update the record of the customer
- Admin will be able to delete the record of the customer
- All customer forms are validated on client side using JavaScript

4.Stock Module:

The main objective for developing this module is to manage the stock. So all stocks will be managed by admin.

Features of stock Module:
- Admin can manage the stock
- Admin can edit/delete the stock
- Admin can see the list of all stock
- Customer can see his stock

Functionalities performed by Admin user:

These are the functionalities performed by the admin users.
- Login for admin
- Forgot password for admin
- Edit profile for admin
- Change password for admin
- Logout functionality
- Manage Arts
  - Adding new arts
  - Edit the existing arts
  - View details of the arts
  - Listing of all arts

Functionality performed by Customer user:

- **Customer registration:** Any customer can register on website using the registration module.
- **Customer login:** This is the login form, from where customer can login into system
- **Art listing:** Customer can see all the art listing from this form.
- **Cart:** This is the cart form in this project.
- **Payment:** This is the payment form in this project.
- **Customer order:** This is the customer order form where customer will able to add order.
- **Change Password:** This is the change password form from where customer change his account password.

Static Pages and other sections:

These static pages will be available in project.

- Home page with good UI
- Home page will contain an JavaScript animated slider for images banner
- About Us page will be available which will describe about the project
- Contact us page will be available in the project

2.Implementation Technologies:

1.React Js:

React is a JavaScript library for building user interfaces.

React js is an open-source JavaScript library that is used **for** building user interfaces specifically for single-page applications**.** React is one of the most popular and widely used libraries (it's not a framework) for frontend development. Its component-based library lets you build high-quality user-interfaces for web apps. This library allows you to place HTML code inside JavaScript and it works with Virtual DOM.

2.Spring Boot:

Spring Boot is **an open source Java-based framework used to create a micro Service**. It is developed by Pivotal Team and is used to build stand-alone and

production ready spring applications. This chapter will give you an introduction to Spring Boot and familiarizes you with its basic concepts.

3.MySql:

MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

3.Hardware and Software Requirements (Minimum):

Hardware:

1. Intel i3 processor 3rd generation or later
2. 2 GB ddr3 ram.
3. Windows 7 Home edition or later.
4. 200 GB Sata HDD Space
5. Data Connection 200 kbps

Software:

1. Eclipse
2. MySQL 5.7 with Workbench 8.0
3. Google Chrome
4. Apache Tomcat Server 8.5
5. Maven Dependencies

4.1. DFD Diagrams:

DFD level 0:
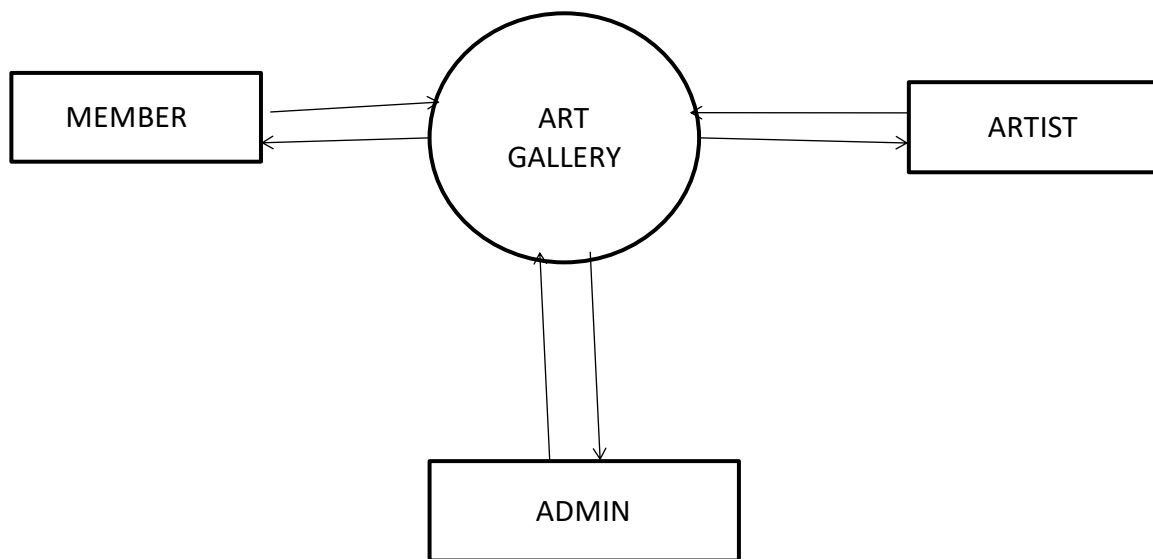
DFD level 1 member:

DFD Level 1 Artist:
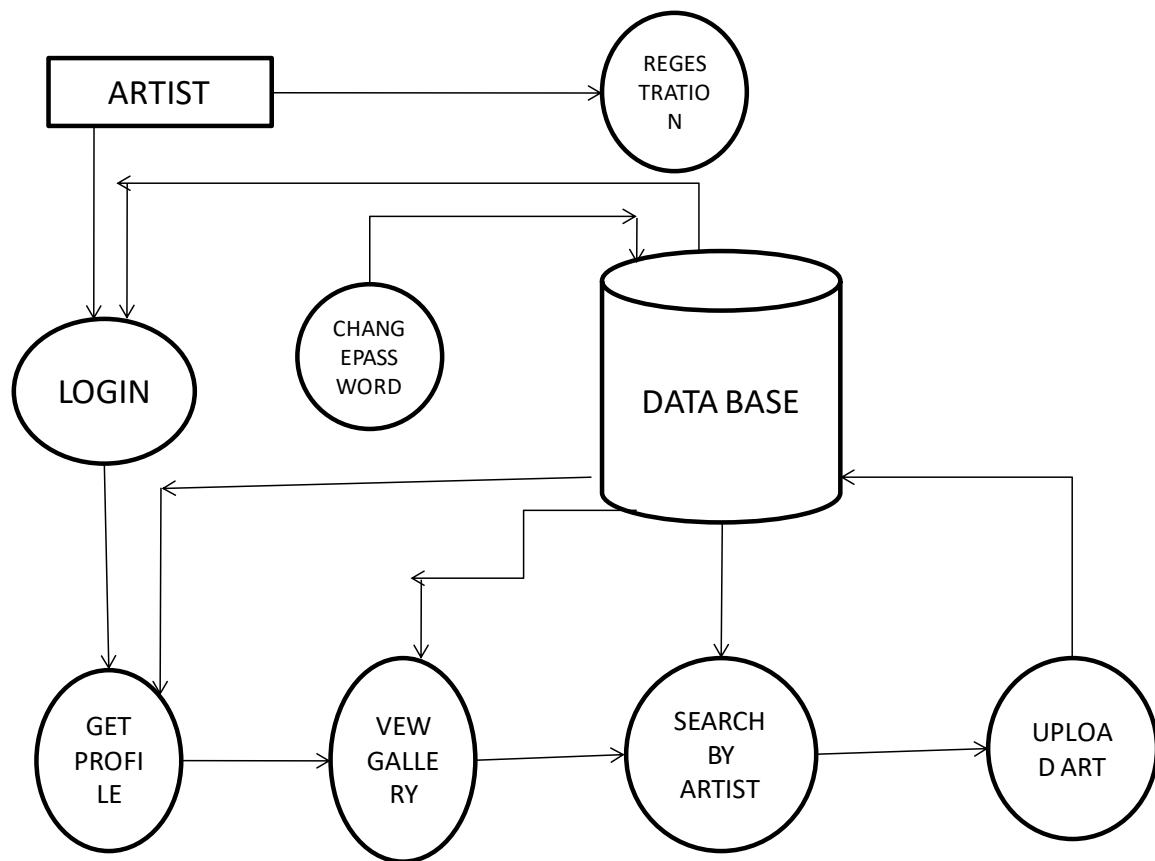
DFD Level 1 Admin:
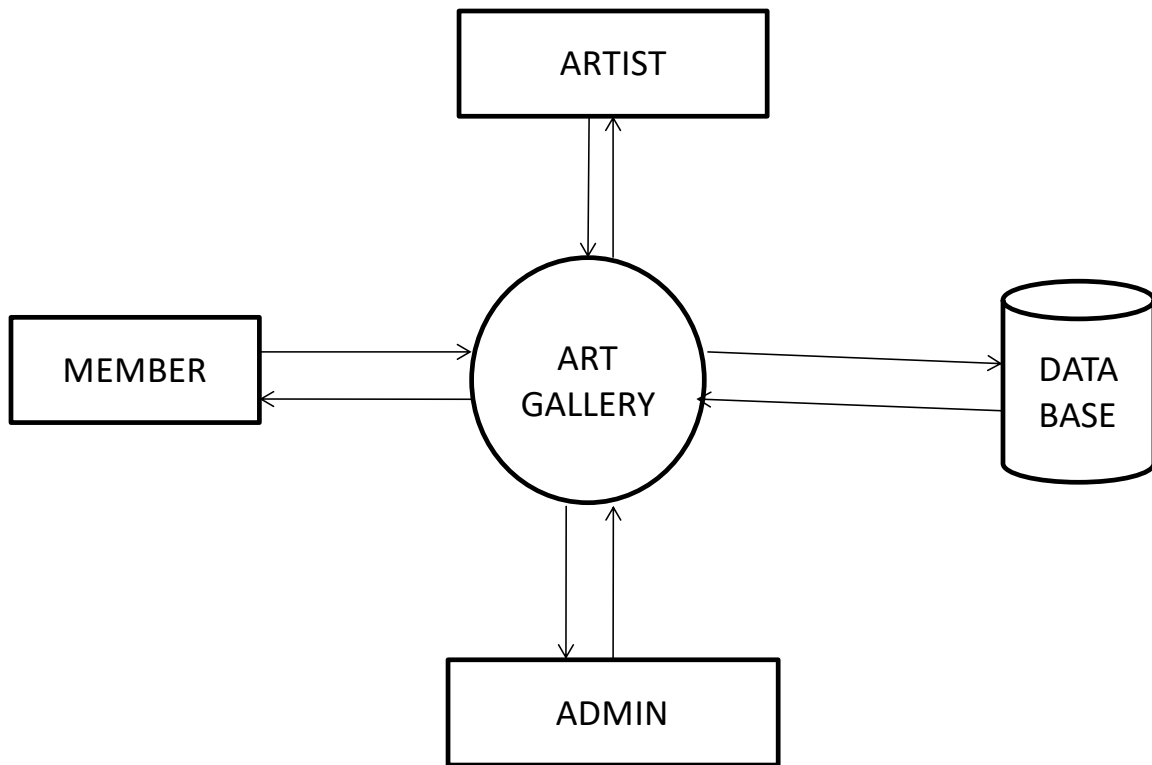
Context Diagram:
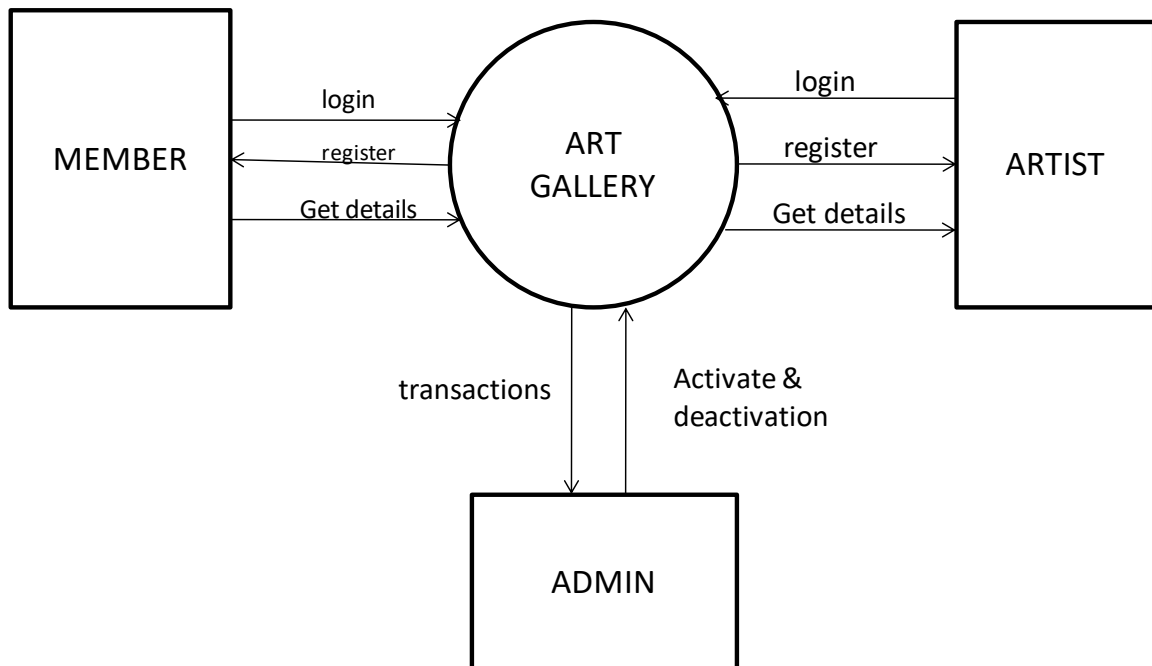
4.2. E-R Diagrams:
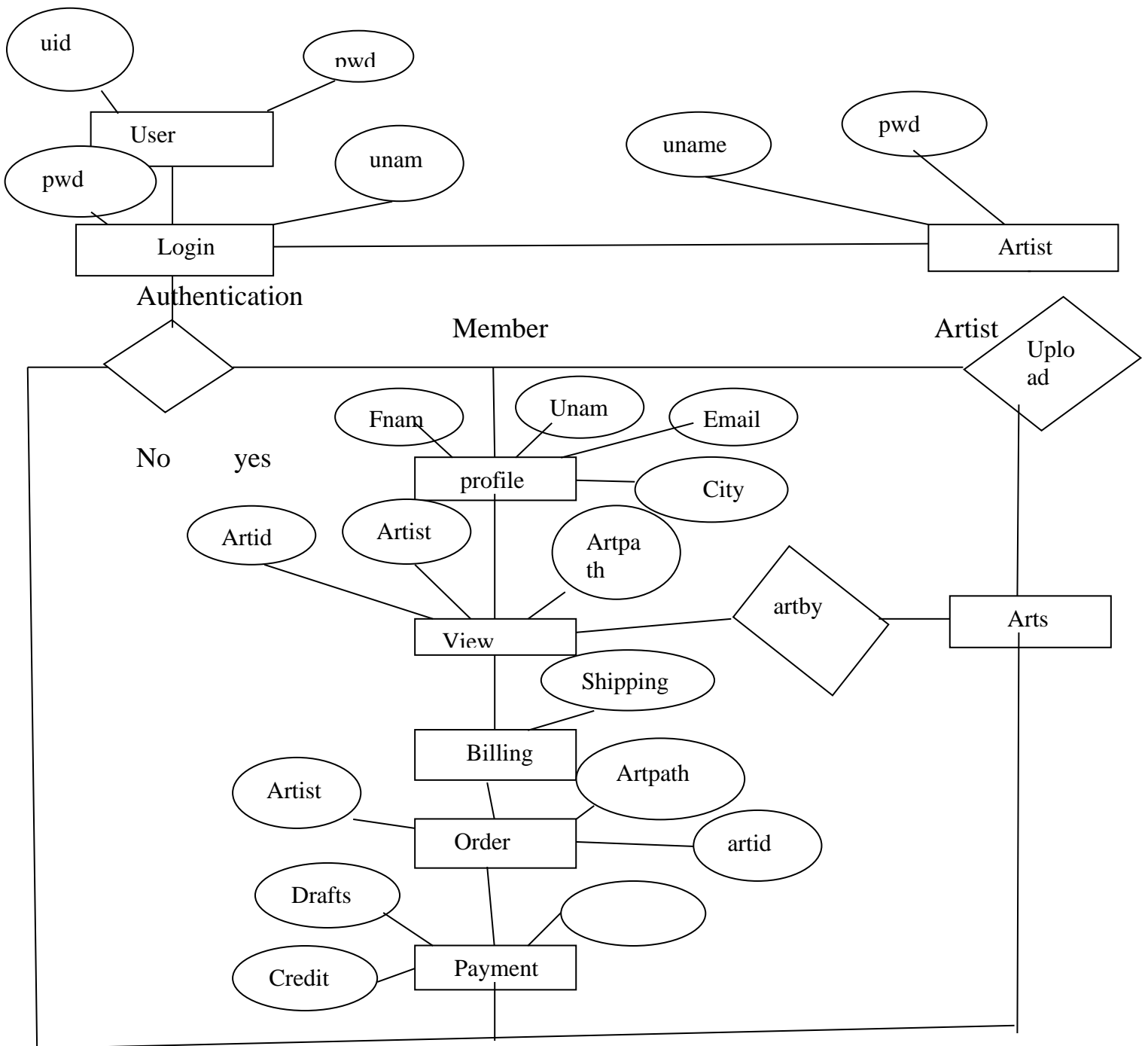
Object diagram:
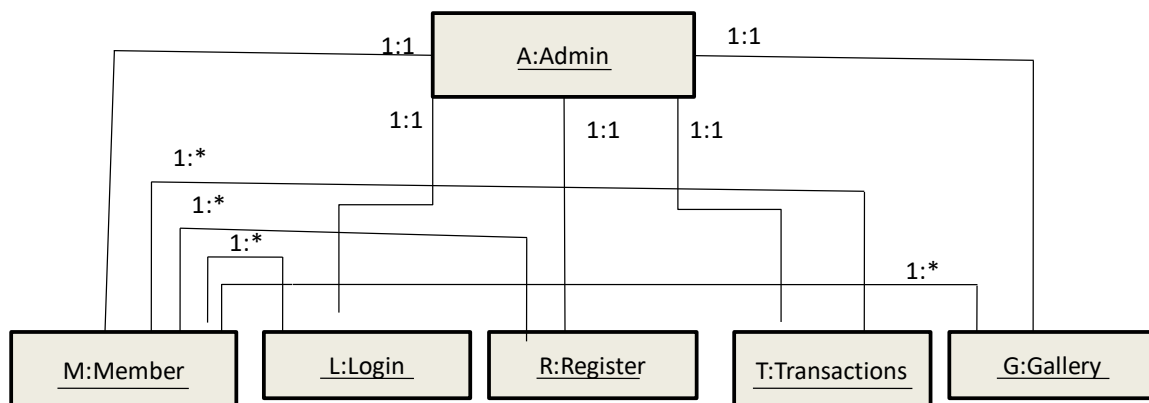
Activity diagram for Member:

```
                          Registration

                          Input details

                          Store details

                          Display details

                          Login

    No                        Valid                    Yes        Get profile

                                                                  View gallery

                                                                  Add to cart

                                                                  password

                                                                  Payment
```
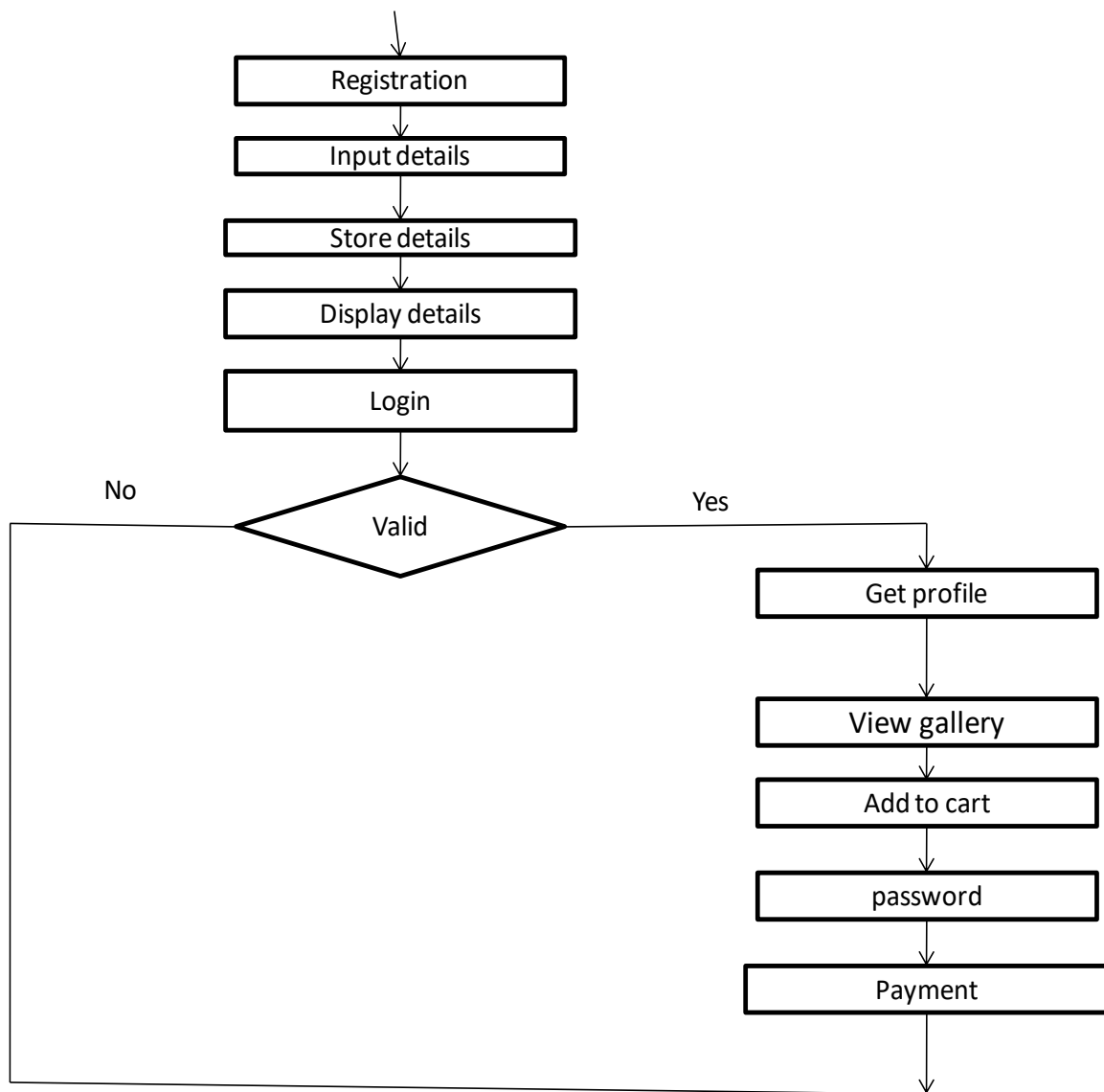
Activity diagram for Artist:

```
        ┌─────────────────────┐
        │    Registration     │
        └─────────────────────┘
                   │
                   ▼
        ┌─────────────────────┐
        │    Input details    │
        └─────────────────────┘
                   │
                   ▼
        ┌─────────────────────┐
        │    Store details    │
        └─────────────────────┘
                   │
                   ▼
        ┌─────────────────────┐
        │   Display details   │
        └─────────────────────┘
                   │
                   ▼
        ┌─────────────────────┐
        │       Login         │
        └─────────────────────┘
                   │
                   ▼
  No              ◇
◄─────────       Valid       ────────► Yes
                  ◇
                                    ┌─────────────────────┐
                                    │    Get profile      │
                                    └─────────────────────┘
                                               │
                                               ▼
                                    ┌─────────────────────┐
                                    │    View gallery     │
                                    └─────────────────────┘
                                               │
                                               ▼
                                    ┌─────────────────────┐
                                    │   Update Gallery    │
                                    └─────────────────────┘
                                               │
                                               ▼
```
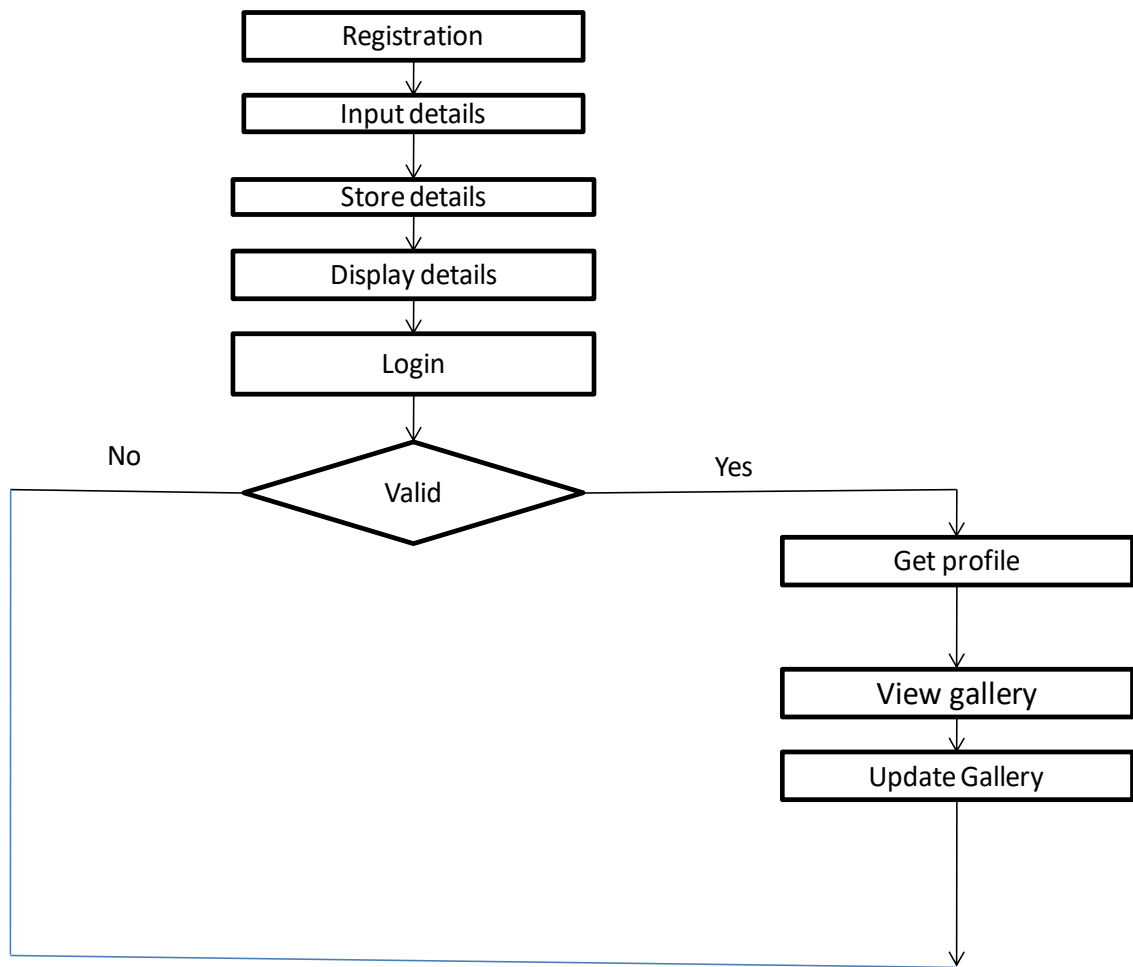
State Chat diagrams:
State chart Diagram for Online registration:

MEMBER   REGISTRATION   ADMIN   DATA BASE

REGISTRATION   VALIDATION   STORE

CONFORMATION
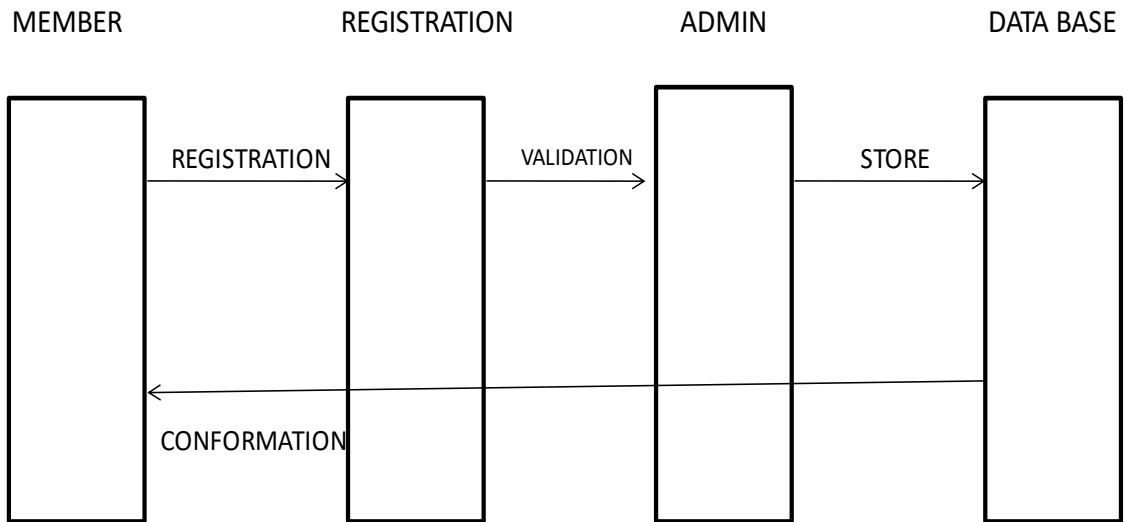
State chart Diagram for Online Transactions:

MEMBER   LOGIN   ADMIN   TRANSACTIONS   DATABASE

login   valid

purchase   store

conformation

Registration

getprofile

ViewGallery

SearchbyArtist

Addtocart

Shippingdetails

payment

Login

member

Artist

Admin
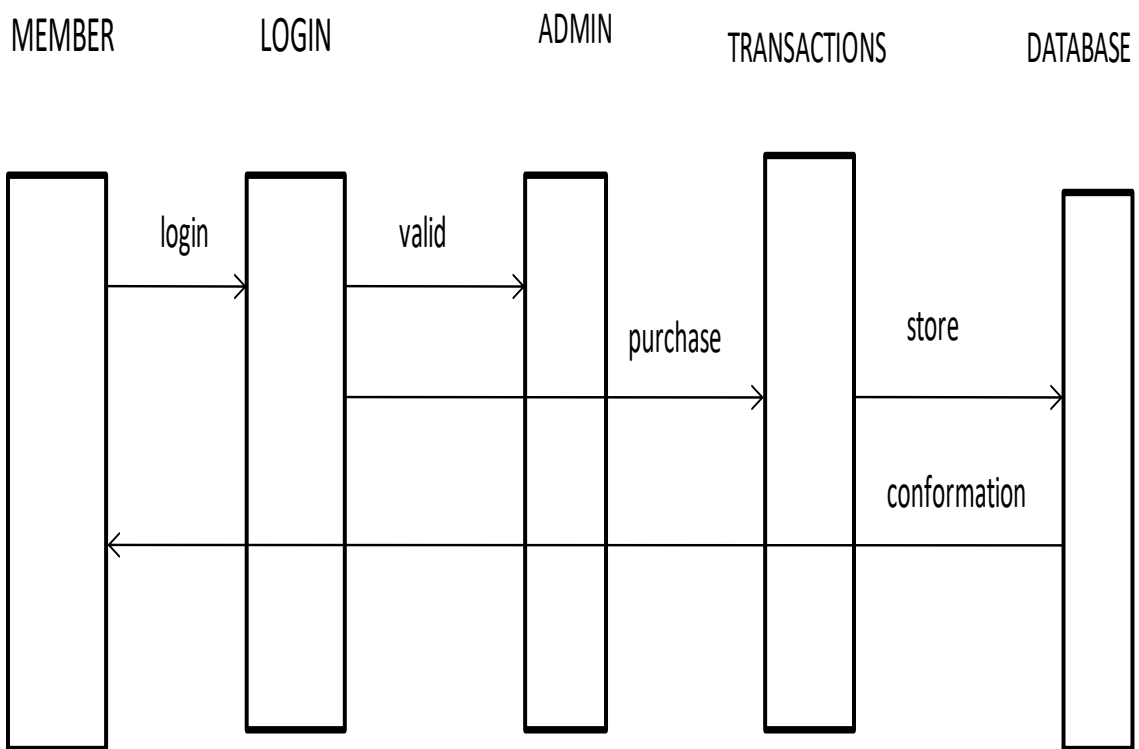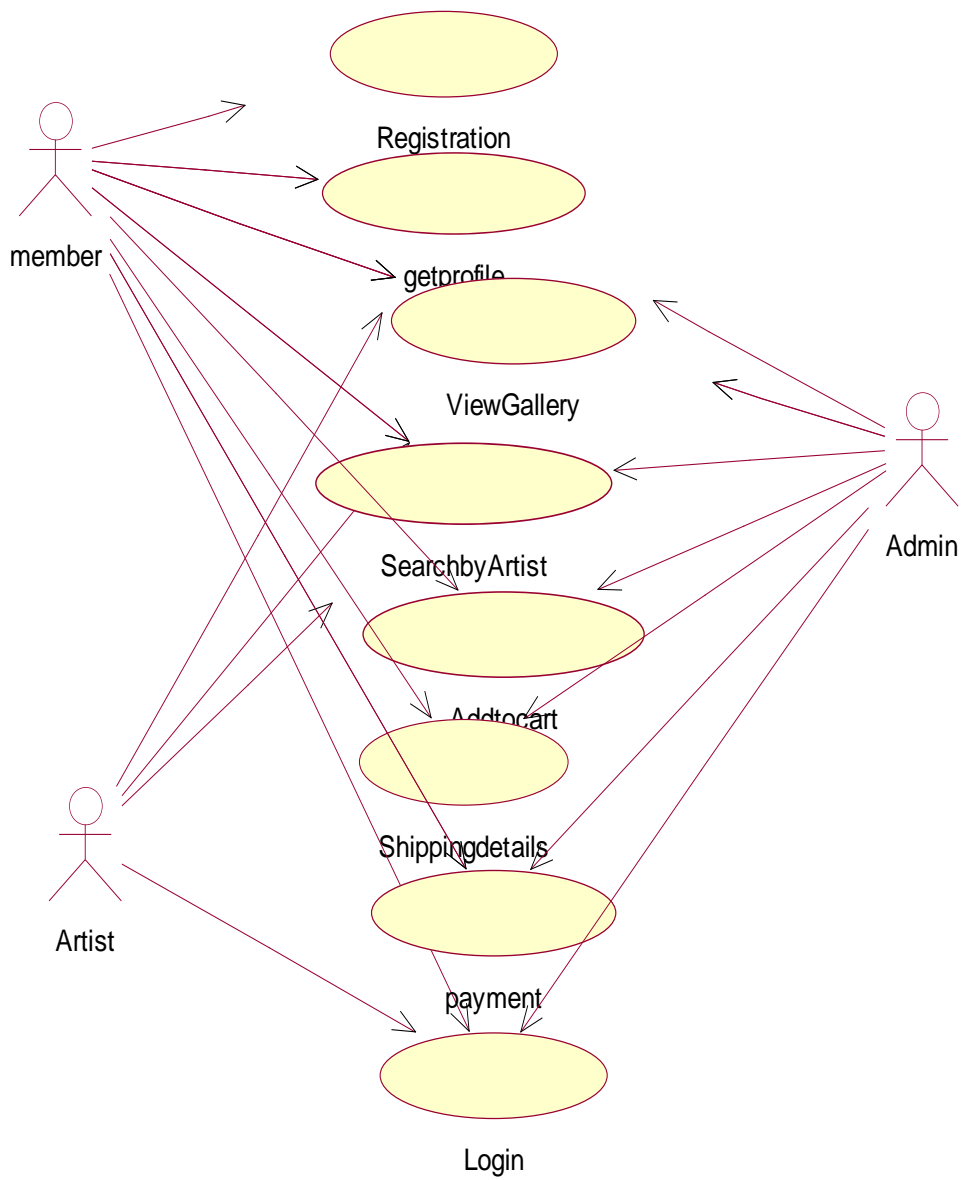
5.Table Structures

```
+-------------------+
| Tables_in_project |
+-------------------+
| artist            |
| contact           |
| customers         |
| files             |
| orders            |
| products          |
| users             |
+-------------------+
```

Artist table

```
+---------+-------------+------+-----+---------+----------------+
| Field   | Type        | Null | Key | Default | Extra          |
+---------+-------------+------+-----+---------+----------------+
| id      | int         | NO   | PRI | NULL    | auto_increment |
| address | varchar(50) | YES  |     | NULL    |                |
+---------+-------------+------+-----+---------+----------------+
```

Contact table

```
+---------+--------------+------+-----+---------+----------------+
| Field   | Type         | Null | Key | Default | Extra          |
+---------+--------------+------+-----+---------+----------------+
| id      | int          | NO   | PRI | NULL    | auto_increment |
| comment | varchar(100) | YES  |     | NULL    |                |
| course  | varchar(255) | YES  |     | NULL    |                |
| email   | varchar(255) | YES  |     | NULL    |                |
| name    | varchar(255) | YES  |     | NULL    |                |
| number  | varchar(255) | YES  |     | NULL    |                |
+---------+--------------+------+-----+---------+----------------+
```

Customer table

```
+----------+------+------+-----+---------+----------------+
| Field    | Type | Null | Key | Default | Extra          |
+----------+------+------+-----+---------+----------------+
| id       | int  | NO   | PRI | NULL    | auto_increment |
| reg_date | date | YES  |     | NULL    |                |
+----------+------+------+-----+---------+----------------+
```

Files table

```
+-------+--------------+------+-----+---------+----------------+
| Field | Type         | Null | Key | Default | Extra          |
+-------+--------------+------+-----+---------+----------------+
| id    | int          | NO   | PRI | NULL    | auto_increment |
| data  | longblob     | YES  |     | NULL    |                |
| name  | varchar(100) | YES  | UNI | NULL    |                |
| type  | varchar(50)  | YES  |     | NULL    |                |
+-------+--------------+------+-----+---------+----------------+
```

Orders Table

```
+-------+--------------+------+-----+---------+----------------+
| Field | Type         | Null | Key | Default | Extra          |
+-------+--------------+------+-----+---------+----------------+
| id    | int          | NO   | PRI | NULL    | auto_increment |
| data  | longblob     | YES  |     | NULL    |                |
| name  | varchar(100) | YES  | UNI | NULL    |                |
| type  | varchar(50)  | YES  |     | NULL    |                |
+-------+--------------+------+-----+---------+----------------+
```

Products Table

```
+-------+--------------+------+-----+---------+----------------+
| Field | Type         | Null | Key | Default | Extra          |
+-------+--------------+------+-----+---------+----------------+
| id    | int          | NO   | PRI | NULL    | auto_increment |
| data  | longblob     | YES  |     | NULL    |                |
| name  | varchar(100) | YES  | UNI | NULL    |                |
| type  | varchar(50)  | YES  |     | NULL    |                |
+-------+--------------+------+-----+---------+----------------+
```

Users Table

```
+----------------+-------------+------+-----+---------+----------------+
| Field          | Type        | Null | Key | Default | Extra          |
+----------------+-------------+------+-----+---------+----------------+
| id             | int         | NO   | PRI | NULL    | auto_increment |
| email          | varchar(30) | YES  | UNI | NULL    |                |
| fname          | varchar(20) | YES  |     | NULL    |                |
| account_status | bit(1)      | YES  |     | NULL    |                |
| lname          | varchar(30) | YES  |     | NULL    |                |
| number         | varchar(10) | YES  | UNI | NULL    |                |
| password       | varchar(20) | NO   |     | NULL    |                |
| role           | varchar(20) | YES  |     | NULL    |                |
+----------------+-------------+------+-----+---------+----------------+
```

6.CONCLUSION:

ONLINE ART GALLERY is a application software and it is very helpful for the art lovers and others who wants to know the addresses where this kind of arts will we sold.

This application helps the end-users to search their arts and paintings and they can place order for the selected pieces. The end-user can also get the information about the art exhibition and the respective address, so, that they can visit to those exhibitions.

Art Gallery brings you an opportunity to view online art exhibitions at our Online Art Gallery we bring you details of all art exhibitions held in the past and the forthcoming show. The Online Art Gallery is updated daily, so the user can view and buy the latest collection of contemporary art online from any where in the world. You can view and buy the latest Indian contemporary art collection available at their exhibitions and also at their online gallery.

8.FUTURE SCOPE :

- This project "Online Art Gallery " gives scopes for the further enhancement.
- The product can enter any user requirement.
- The application is currently stand alone and can be extended for the web.
- The product creation part is to done in a more elaborate manner.

9.References:-

- W3School.com

- Javapoint.com

- Reactjs

- JavaEE docs