

Final Report

# Independent Art Sharing System

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# Independent Art Sharing System

## 1.1 Problem Statement

Now we are living in the era of globalization. At this moment we can instantly connect to anyone from anywhere in the world with the help of technology. We can share anything to anyone, but it is a matter of great sorrow that still now there is no centralized platform where we can show our talents to the world. There are people who has talent of making something creative such as digital art, craftsmanship, 3D model design, animation etc. in other words have huge potential of being creative and make world a better place for everyone but because of the lack of perfect platform to showcase these talents these people get demotivated. To solve this problem, I have developed a centralized system where people of great talents and potentials can share their work with anybody in the world.

The subject of this report is "Independent Art Sharing System" in short it is called "Indie Arts". Many talented artists cannot show their full potential because of lack of advertising or lack of quality advertising. Indie Arts is a website where these artists can share what they are working on or doing. Every type of arts can be shared here and every type of people regardless of their gender or age can have an account of their own and can share their work to the world. Every user other than sharing can also view what other people are sharing and that's the goal of this website.

## 2 Glossary of Terms

User: Who have registered to the system to view showcase of the artists or have their own art showcase.

Filter: Remove all kinds of parts that are unwanted and show what type of things the user wants to see.

Database: An organized arrangement of information in the organization where information is open to a specific client account.

MySQL: An open-source social data set administration framework.

ASP .NET Core MVC: It is a lightweight, open-source, profoundly testable show structure streamlined for use with ASP.NET Core. It gives an examples based approach to assemble dynamic sites that empowers a spotless division of concerns.

Objective Oriented: Permits frameworks to be demonstrated as a bunch of items that can be controlled in a secluded way.

Operating System: Framework programming on which the application will run.

User Interface: The visual part of the product that permits UI.

Server: A server is a PC or framework that gives assets, information, administrations, or projects to different PCs, known as customers, over an organization.

### 3 System Requirements

#### 3.1 Enumerated Functional Requirements

| Identifier | Priority | Requirement                                                                                                                       |
|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------|
| Request-1  | 5        | The site will allow the customer to create an account by signing up to the system to be eligible to use the system.               |
| Request -2 | 5        | The site will allow users to login to the system with required credentials.                                                       |
| Request -3 | 3        | The site will allow the users to change their personal information such as name, email contact or password from the profile menu. |
| Request -4 | 4        | The site will allow the users to rate what others are sharing.                                                                    |
| Request -5 | 1        | The site will notify the users via email of their successful account registration.                                                |
| Request -6 | 5        | The site will allow the users to post photos or videos to show their talents.                                                     |
| Request -7 | 3        | The site will allow all the users to view posts by categories.                                                                    |
| Request -8 | 3        | The site will allow the users to search by post title or user.                                                                    |
| Request -9 | 2        | The site will show all the users' daily advertisements on the right side of the screen.                                           |

### 3.2 Enumerated Nonfunctional Requirements

| Identifier  | Priority | Requirement                                                                                                                                |
|-------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Request -10 | 5        | The site should be compatible with any web browser.                                                                                        |
| Request -11 | 3        | The site ought to be simple for the regular individual to utilize, in other word the site should have a nice user-friendly user-interface. |
| Request -12 | 4        | The site should load on the browser quickly, the site performance should be very good.                                                     |
| Request -13 | 2        | The site ought to have smooth advances starting with one page then onto the next page.                                                     |
| Request -14 | 4        | The site should uphold a working framework.                                                                                                |

### 3.3 On-Screen Appearance Requirements

# Register

Username

Contact

Email

Password

Register

Sign In

Figure 1: Registration

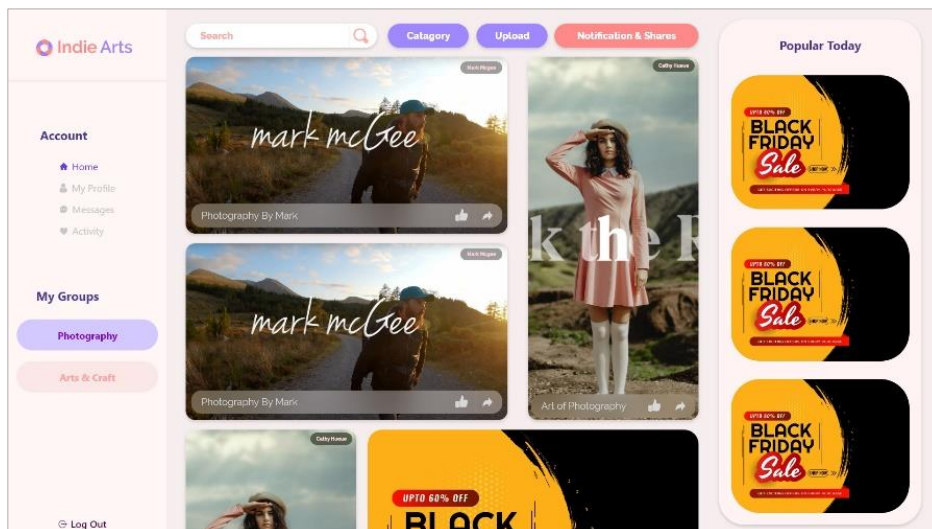
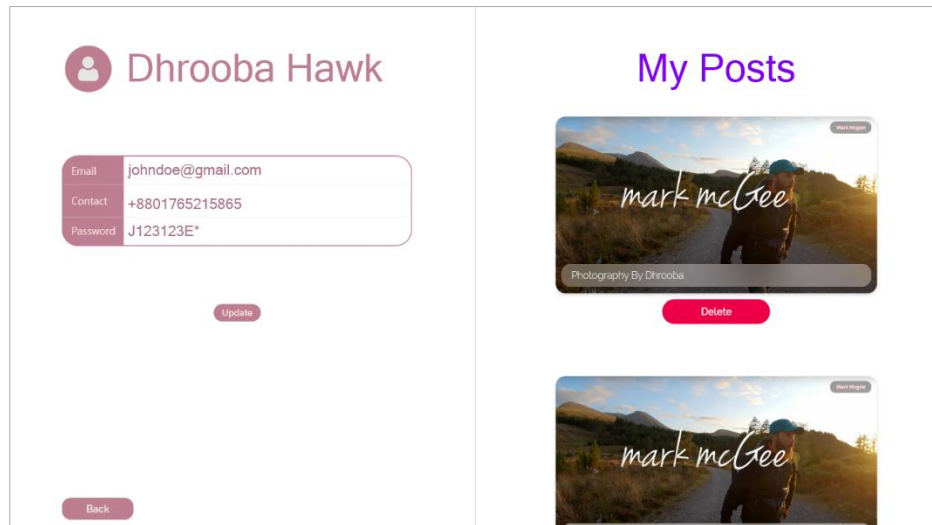
# Sign In

Email

Password

Login

Register



## User Interface Requirements

| Identifier | Priority | Requirement                                                                                                                                                                                                                                                                    |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USREQ-1    | 4        | Users gets to choose among register and login.                                                                                                                                                                                                                                 |
| USREQ-2    | 5        | Tapping on the Register button takes the client to the enrollment page where the client will put the necessary data for an effective enlistment. In the wake of tapping on the submit button client should put OTP that is shipped off their email. On the off chance that the |

|          |   |                                                                                                                                   |
|----------|---|-----------------------------------------------------------------------------------------------------------------------------------|
|          |   | client input, the right OTP the enrollment will be finished.                                                                      |
| USREQ-3  | 5 | Tapping on the "Login" button takes the client to the Login Page where the client inputs the necessary certifications to sign in. |
| USREQ-4  | 5 | Home Screen will show every post submitted by other users.                                                                        |
| USREQ-5  | 3 | Users can search post by title or search post by username simply by typing on the search bar at the top of the homepage.          |
| USREQ-6  | 2 | Users can like or rate post from the home screen.                                                                                 |
| USREQ-7  | 4 | Users can post by clicking on the upload button which will take the user in upload menu page from where user will post.           |
| USREQ-8  | 3 | By clicking on my profile button user will get to see his/her personal information and he/she can alter that information as well. |
| USREQ-9  | 1 | By clicking on the notification and share button users will get to see notifications of their posts.                              |
| USREQ-10 | 3 | Advertisement will be shown on the right side of the home screen.                                                                 |

## 4 Functional Requirement Specification

### 4.1 Stakeholders

There are three partners who have an interest in this framework, and at last in its prosperity:

- i. Developers: Have an interest in attempting to execute to create and work on the framework.
- ii. Users: Have an immediate interest in utilizing the framework as it will help them to grandstand their gifts.
- iii. Advertisers: Additionally, has an immediate interest in utilizing the framework which will assist them with publicizing.

## 4.2 Actors and Goals

### Initiating Actors

| Actors     | Role                                                                            | Goal                                                                                                                              |
|------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| User       | The user is a person who is registered and logged in to the system.             | The objective of the client is to have a magnificent encounter of utilizing the framework by perusing, review, and sharing posts. |
| Advertiser | The advertiser is an entity who is registered into the system as an advertiser. | The goal of the advertiser is to submit advertisement to boost their business.                                                    |

### Participating Actors

| Actors   | Role                                                                                                           |
|----------|----------------------------------------------------------------------------------------------------------------|
| Database | The database is a system that records a user's information such as login credentials and post that are shared. |

## 4.3 Use Cases

### 4.3.1 Casual Description

**UC-1: Create Account-** Permits clients to make a record so they might get the advantages of being a record holder, during account creation users will get OTP via email and after successful account creation users will get email notification.

Derivations: USREQ-1, USREQ-2, Request -1, Request -5

**UC-2: Login-** Allows users to login to use the system as the user wants.

Derivations: USREQ-3, Request -2

**UC-3: Profile Menu-** Allows the users to alter changes of their personal information and view them, moreover it gives the ability to the users to view what they have posted and delete if they want.

Derivations: USREQ-8, Request -3

**UC-4: Ratings and Likes-** The site will allow the users to rate and likes what others are sharing.

Derivations: Request -4, USREQ-6

**UC-5: Post Contents-** The site will allow the users to post photos or videos to show their talents.

Derivations: USREQ-7, Request -6

**UC-6: View Contents-** The site will allow all the users to view post or filter posts by categories.

Derivations: USREQ-4, USREQ-5, Request -7, Request -8

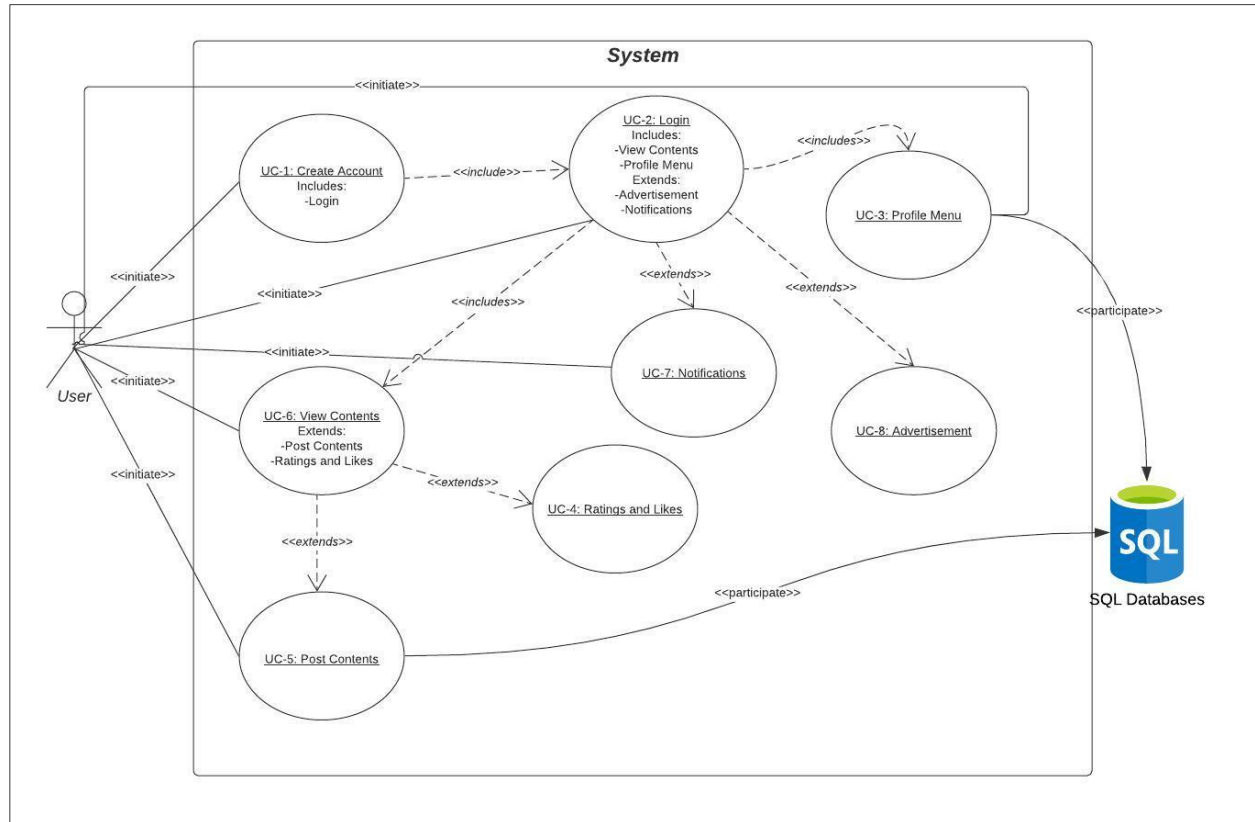
**UC-7: Notifications-** The site will allow all the users to view notifications regarding their posts.

Derivations: USREQ-9

**UC-8: Advertisement-** The site will show all the users' daily advertisements.

Derivations: USREQ-10, Request -9

#### 4.3.2 Use case diagram



#### 4.3.2 Traceability Matrix

| Request    | PW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------|----|---|---|---|---|---|---|---|---|
| Request -1 | 5  | X |   |   |   |   |   |   |   |
| Request -2 | 5  |   | X |   |   |   |   |   |   |
| Request -3 | 3  |   |   | X |   |   |   |   |   |
| Request -4 | 4  |   |   |   | X |   |   |   |   |
| Request -5 | 1  | X |   |   |   |   |   |   |   |
| Request -6 | 5  |   |   |   |   | X |   |   |   |
| Request -7 | 3  |   |   |   |   |   | X |   |   |
| Request -8 | 3  |   |   |   |   |   | X |   |   |
| Request -9 | 2  |   |   |   |   |   |   |   | X |
| USREQ-1    | 4  | X |   |   |   |   |   |   |   |
| USREQ-2    | 5  | X |   |   |   |   |   |   |   |
| USREQ-3    | 5  |   | X |   |   |   |   |   |   |
| USREQ-4    | 5  |   |   |   |   |   | X |   |   |
| USREQ-5    | 3  |   |   |   |   |   | X |   |   |
| USREQ-6    | 2  |   |   |   | X |   |   |   |   |
| USREQ-7    | 4  |   |   |   |   | X |   |   |   |
| USREQ-8    | 3  |   |   | X |   |   |   |   |   |
| USREQ-9    | 1  |   |   |   |   |   |   | X |   |
| USREQ-10   | 3  |   |   |   |   |   |   |   | X |

#### 4.3.4 Fully Dressed Description

| UC-1: Create Account                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Requirements:</b><br>USREQ-1, USREQ-2, Request -1, Request -5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Initiating Actor:</b><br>User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Actor's Goal:</b><br>To enrolled in the framework to be qualified to utilize the framework                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Participating Actor:</b><br>Database                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Preconditions:</b><br>The user has loaded the site in a browser                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Postconditions:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Flow of Events for Main Success Scenario:</b> <ol style="list-style-type: none"><li>→ The client taps on the 'Register' button which present to him/her to the enlistment page</li><li>← The system displays a form to user in the registration page</li><li>→ The user inserted necessary valid details for registration purpose</li><li>→ The user clicks on the register button</li><li>← The system sends an OTP to the user's email address and brought him/her to the OTP page</li><li>→ The user inputs the correct OTP and press submit button in the OTP page</li><li>← The system displays a message saying registration successful and sends an email regarding success.</li><li>← The system then brings the user to the Login screen</li></ol> |

| UC-3: Profile Menu                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Requirements:</b><br>USREQ-8, Request -3                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Initiating Actor:</b><br>User                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Actor's Goal:</b><br>To view or change profile data                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Participating Actor:</b><br>Database                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Preconditions:</b><br>The client has stacked the site in a program, signed in to the framework, and clicked My Profile                                                                                                                                                                                                                                                                                                                                           |
| <b>Postconditions:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Flow of Events for Main Success Scenario:</b> <ol style="list-style-type: none"><li>→ The client taps on the update button</li><li>← The system brings a form</li><li>→ The user change data which he/she want's necessary and</li><li>→ The user clicks update button again</li><li>← The system updates the information from the database and displays my profile menu</li><li>→ The client taps the erase button for the post he/she needs to erase</li></ol> |

7.   ← The system deletes the post from the database and update the interface from my profile menu

#### UC-5: Post Contents

**Related Requirements:**

USREQ-7, REQ-6

**Initiating Actor:**

User

**Actor's Goal:**

To post on the site

**Participating Actor:**

Database

**Preconditions:**

The client has stacked the site in a program, logged in to the system, and clicked upload button from home screen

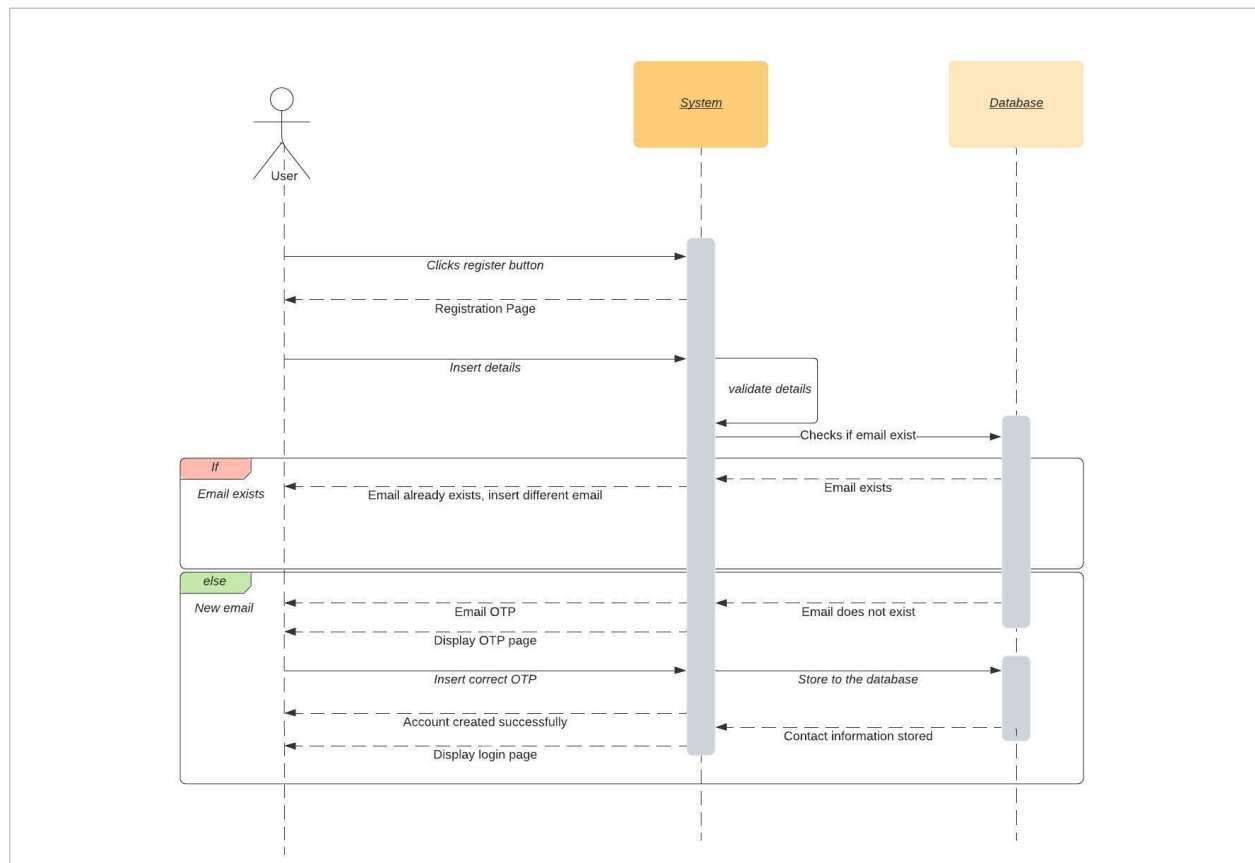
**Postconditions:**

N/A

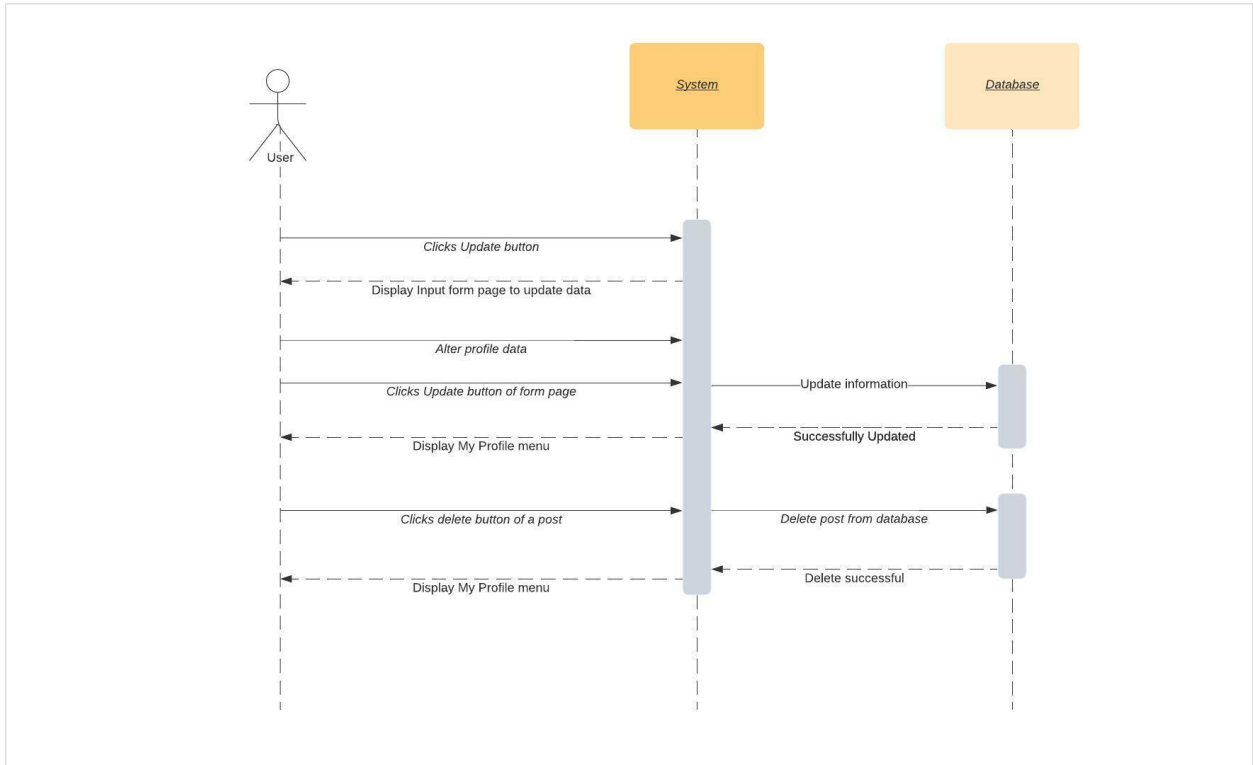
**Flow of Events for Main Success Scenario:**

1.   → The client taps on the transfer button from home screen
2.   ← The framework brings a form
3.   → The user inserts photo, title of the post from the form
4.   ← The system inserts that information into the database
5.   ← The system shows that post on the home screen

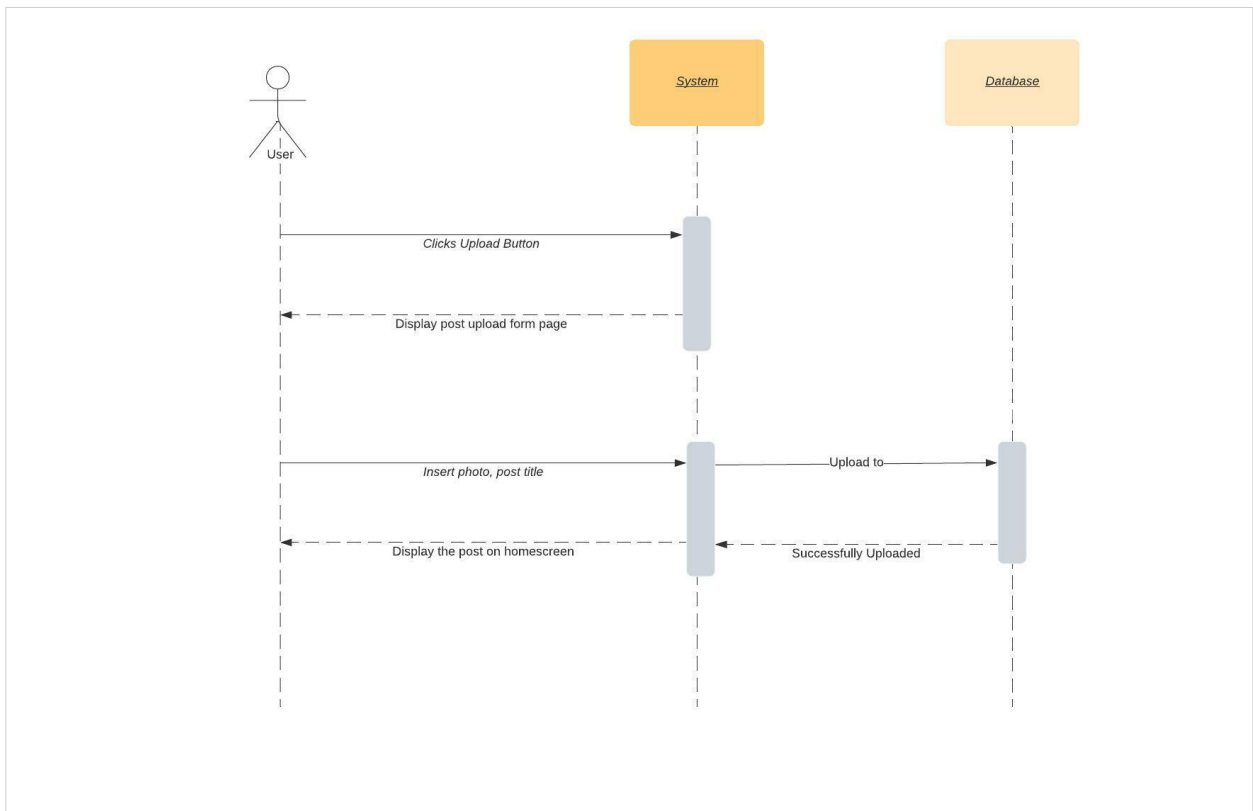
#### 4.4 System Sequence Diagrams



Sequence diagram 1: Create Account



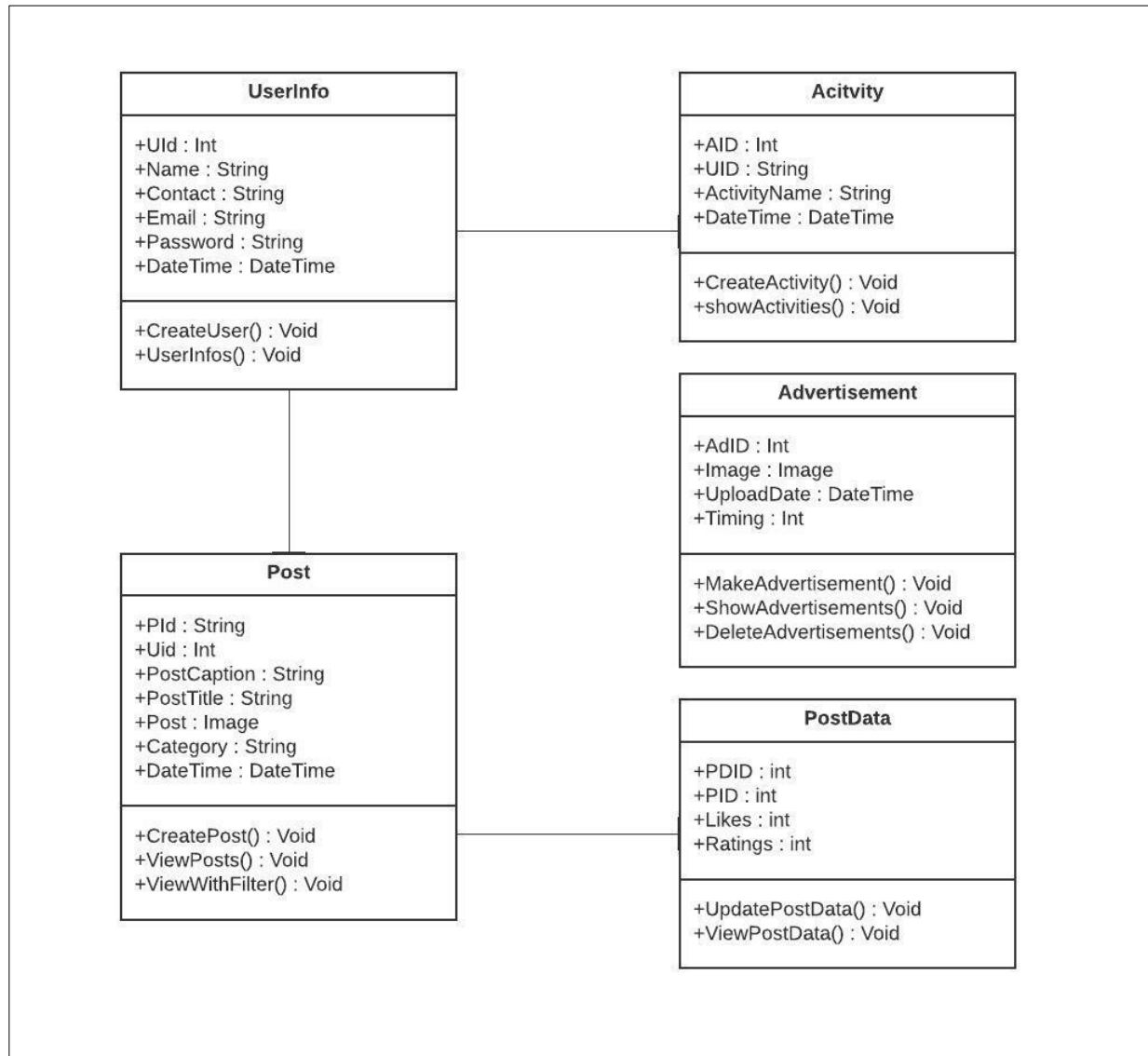
Sequence Diagram 2: Profile Menu



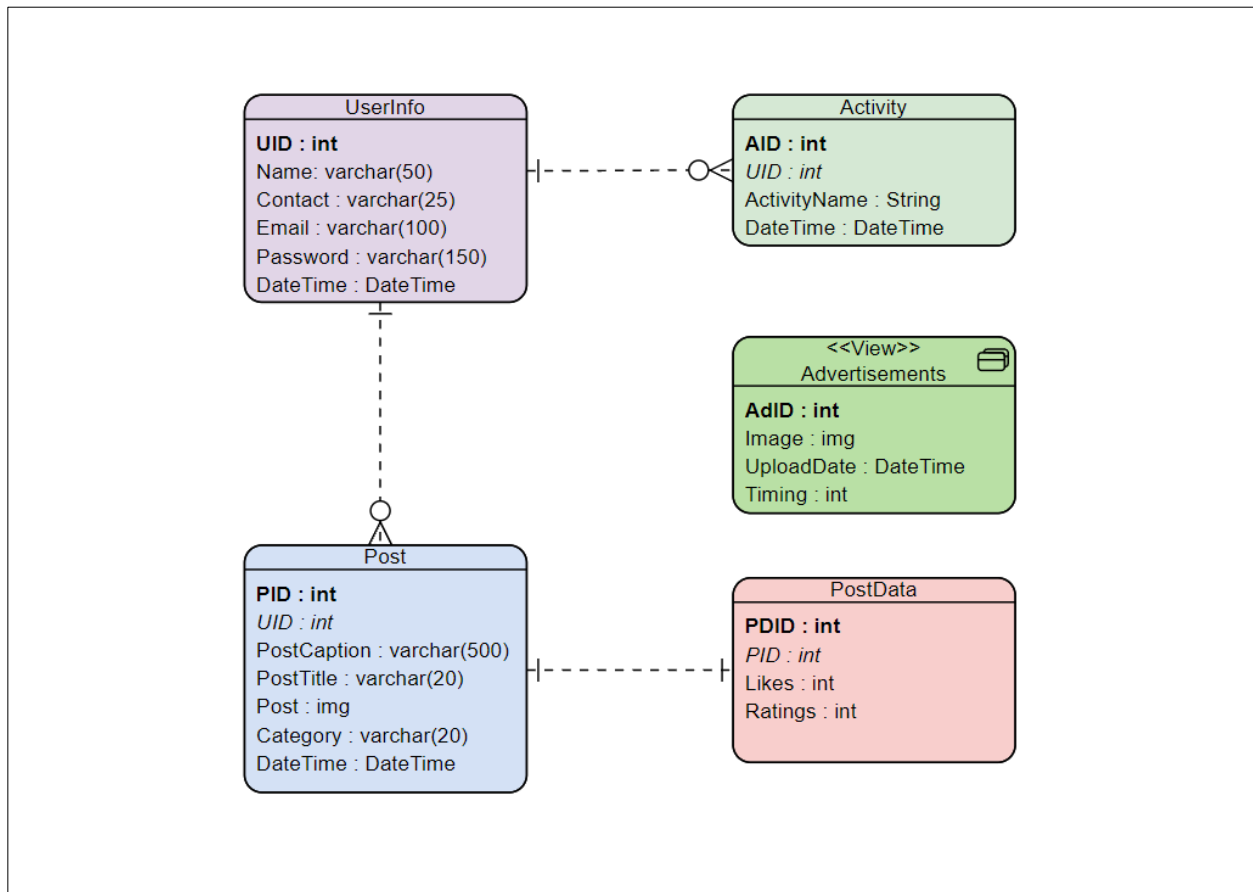
Sequence Diagram 3: Upload Content

## 5 Diagrams

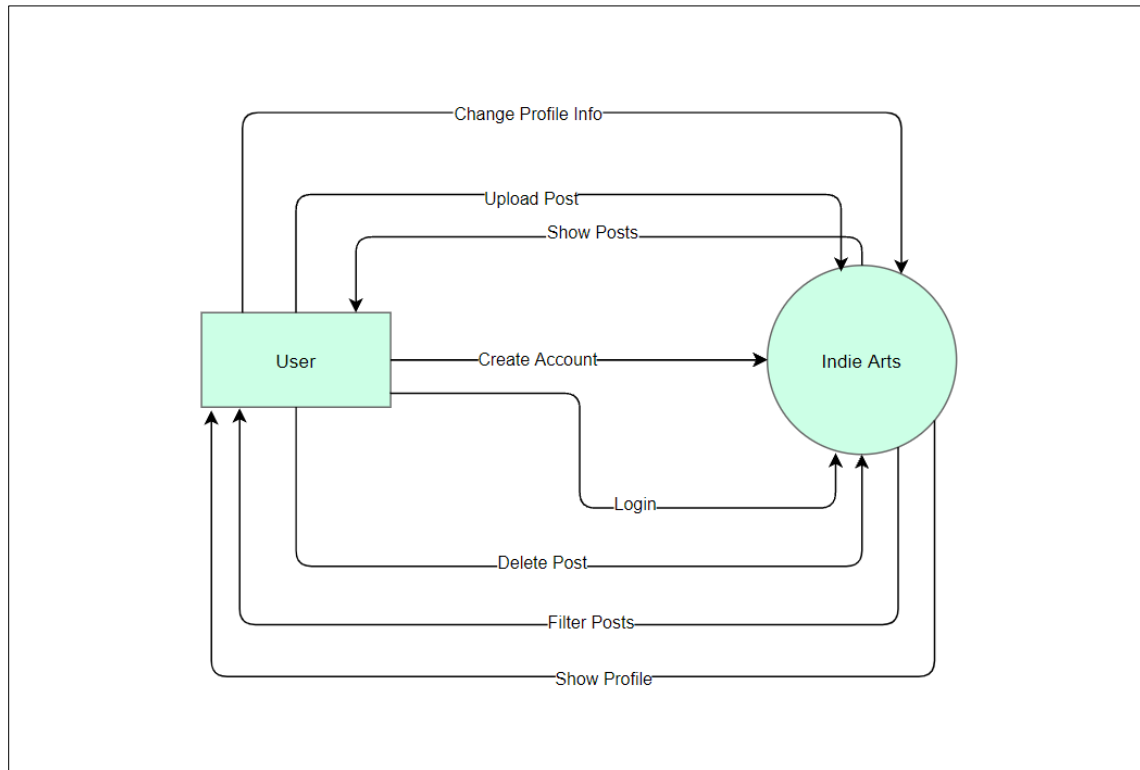
### 5.1 Class Diagram



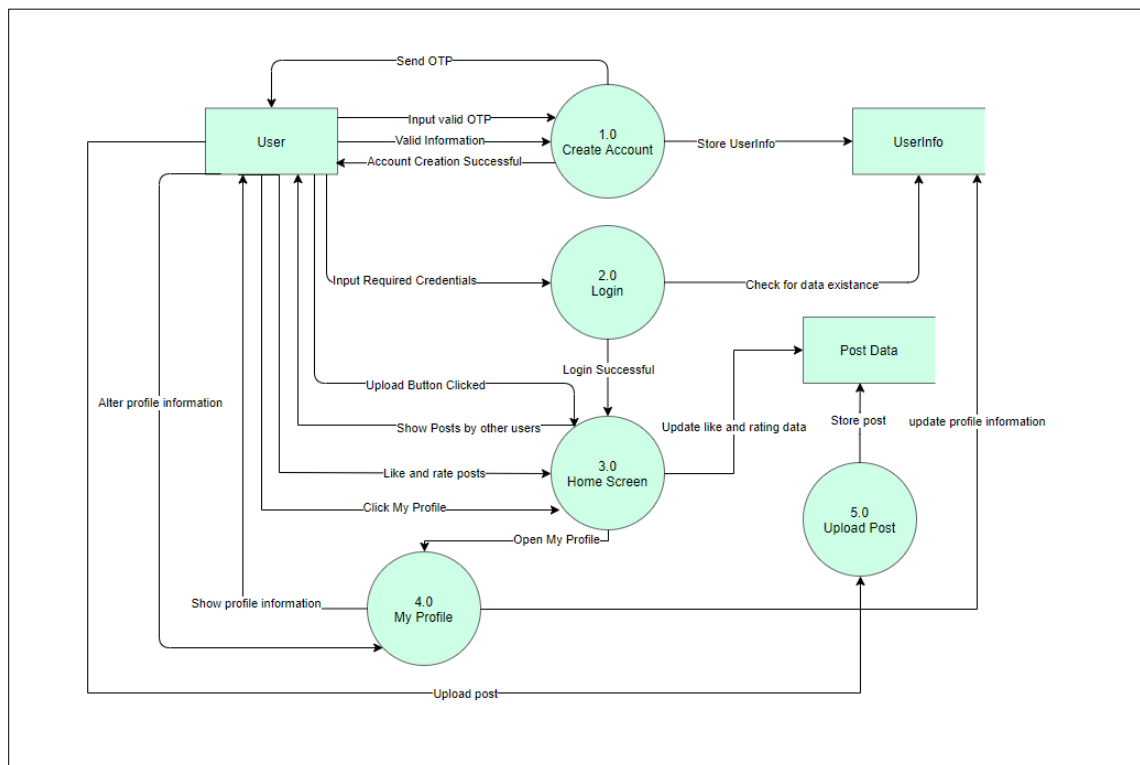
## 5.2 ER Diagram



### 5.3 Level 0: Dataflow Diagram



### 5.3 Level 1: Dataflow Diagram



## **6 Conclusion**

Indie Arts is a website where artists may share what they're working on or creating. Every sort of art can be shared here, and each user can create their own account. This website's purpose is to make it simple for all types of artists to display their work.