



Project Proposal Report

Project page: <https://github.com/Unassikandar/CS353-Art-Sharing-Platform>

Group Number

32

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1. Introduction

As technology advances majority of the people surfing on the internet and using many applications. Although these websites and applications are used for many different purposes, most of them make use of database management systems which are essential to deal with complexity.

For this course, we are planning to develop a database for Art Sharing Platform. Our platform will be focused meeting point for all creators around the world to share their creations with other creators and even get their thoughts about creation they made. Creations will be classified to different categories for users if they want to enjoy specific kind of art creation. Selling is also an option for the creators if they want to sell their creation. Also users will be able to create collections for their creations to collect them in one place.

This report describes aspects of our database management system to support all the requirements of the Art Sharing Platform. To better clarify E/R diagram of our system will be included along with the requirements. To conclude our report, limitations of our system will be listed, do define limits of our system.

2. Project Description

The aim of the project is to create a collaborative art creation and sharing platform. Our proposed system will be a web based application which will allow creators to share their art with others. Users will not only have the ability to share their own creations but to also interact with other users by commenting or liking their content. A ranking system will be incorporated so that creators with more likes increase their rank and their content becomes more visible. Users will be able to subscribe to other users whom they wish to follow and whose content they wish to see.

Creators will be able to make collections of their submission or content that they see on the website. They will be able to set the privacy level of their collections. The creators will be able to share these collections with other creators, so that they too can add content to the collection. Users, will also be to create their portfolios, which unlike their profiles will have a curated list of their original content. There will be option for users to create portfolios, Portfolios will be there to show the best content that the creators have made themselves. Other, users will have the option to buy creations from the portfolios if they are up for sale.

Other than creators, there will be two more types of users - Admins and Moderators. Admins will have overreaching powers that allow them to ban and delete, users or content. Admins will also be able to create categories for the submissions so that creators can add a type to their creations. This will make it easier for users to find content of their liking. There will be some default categories such as Trending, Popular etc. that will show content based on their popularity. Moderators will have the same permissions that creators do but in addition they will monitor the content and make sure that new submissions are tagged properly by their categories. Moderators will remove anything that does not adhere to the site policy including submissions and comments.

3. Requirements

3.1 Functional Requirements:

1. Users can signup and create their accounts using an email and a password
2. Users will be categorized into 2 subgroups i.e. Admin and Creator (these different categories will have different privileges)
3. Some creators can be further specialized as moderators (moderators will be given additional privileges)
4. Admin type users will be able to manage users in the system i.e. delete/ban users.
5. Admin users will be able to add/rename art categories.
6. Moderators will be given the capability to flag creations.
7. Moderators will be able to move a creation from one category to the other.
8. Creators will be able to add their creations
9. Creators will be able to create collections of creations
10. Creators will be able to add other creators as collaborators to their collections
11. Creators will be able to view other creators' creations
12. Creators will be able to comment on different creations
13. Creators will be able to favorite creations
14. Creators will be able to subscribe to other creators
15. Creations will be ranked according to the number of favorites that the creations have
16. A trending category will be available which shows new trending creations based on their addition date and number of favorites
17. Creators will be suggested categories based on their favorites
18. Creators will be able to put up their creations for sale
19. Creators will be able to buy others' creations
20. Creators will be able to create/edit a portfolio
21. Creators will be able to perform searches based on users, categories or titles

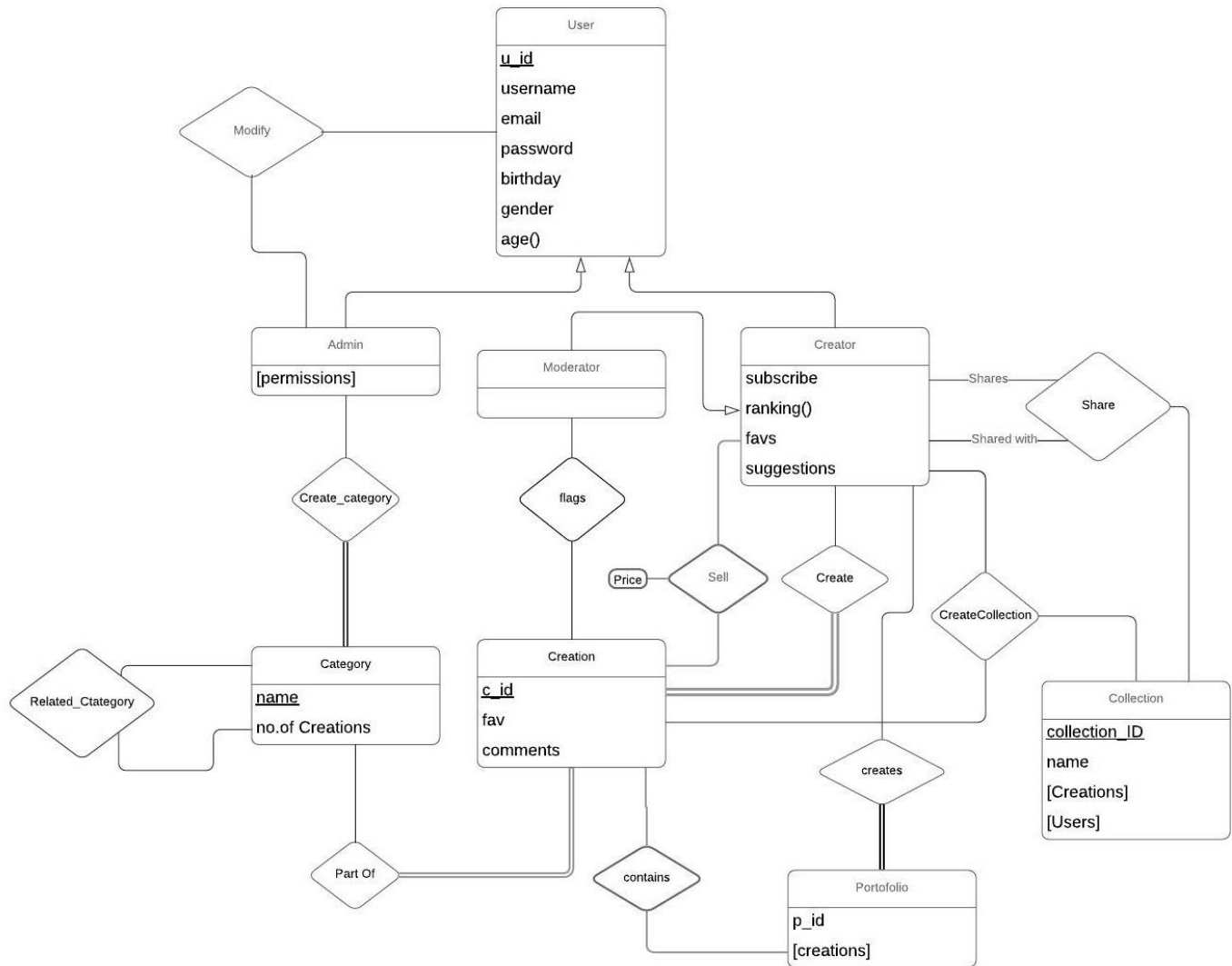
3.2 Non-Functional Requirements

1. The user interface of the system should be user friendly in a way that any user with minimal experience with web browsing should be able to use the system.
2. The system should be able to work on multiple platforms (windows, linux, android, ios)
3. Users' private data must be protected such as emails, password, birthday, gender, etc. if the users wish for it.
4. The system should be scalable as to allow growing number of users to use the system without any problems
5. The system will be developed in such a way that it is maintainable
6. Responses from the system should be fast for user friendliness ($\leq 3s$)

3.3 Pseudo Requirements

1. Database system will be created using MySQL
2. Frontend design will be done using javascript and HTML5
3. Node.js will be used to create a server which will handle user-database communications.

4. Entity-Relation Diagram



5. Limitations

1. Moderators cannot delete a user from the site.
2. Users can only make a single profile with one email address
3. Creators cannot delete content of another creator.
4. Only Admins can access the personal information of other users unless the user has made these public.