

# Enjoy "Art Liberty": Communication Platform for "Artists"

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## 1. Project Background

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The advent of Information Era has undoubtedly brought great impact and challenges to the traditional Chinese painting. Under the current situation of information fragmentation, people have gradually lost their enthusiasm on them along with patience to settle down to appreciate art works. However, Every coin has two sides. Now we are able to use some modern approaches to offer the lovers and appreciators of traditional Chinese painting a more convenient way to communicate and a broader space for collision of ideas. Not only will this platform preserve people's love of traditional Chinese painting, but also can play a positive role in cultural inheritance. Although it's not realistic to lit everyone's passion on them, to build such a platform is still of necessity.

## 2. Major Goals

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- To deepen comprehension of the content learned in this course (**system analysis and design**), and try to apply some of the principles into practice.
- To have a better understanding of how to design a complete system and enrich the experience of drawing up a plan on how to develop a rather complex software.

- To have a rough idea on how these methods of developing work, such as agile approach, etc.
- To better team work skills and gradually learn to use some convenient tools for team work.

## 3. Major functions & Features

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### 3.1 How to implement?

- The system has to be able to integrate different types of data, such as the info about all the paintings available on the application, every user's personal data, etc. Appropriate methods to store these data must be applied.
- Considering different users may use different devices to use this application, a variety of terminals must be supported so that all users can enjoy their communication through this platform.
- To prevent irrelevant discussion on some sensitive topics, a filtering standard needs to be widely acknowledged by users. Apart from that, a mechanism to automatically delete some commentaries and posts must be operated.
- To ensure that users can have better experiences on using this application, GUI must be designed in a proper style along with beauty of simplicity for the reason that we don't want the key points to be neglected. Apart from that, all functions available to users should be designed from the perspective of users, especially elder people, they love traditional Chinese paintings, but most of them are not that good at using smart devices. The application must be presented in a user friendly way.

### 3.2 What will be offered?

- On the front page of this application, every user will receive a picture of painting everyday depending on his/her tendency of likeness on certain kind of art work. If he/she is interested, after a gentle touch on the screen, all available info and details will be presented just in front of him/her. We aim to make it possible for everyone to have a glimpse on these works in a convenient way, such as when you are waiting for your morning coffee or during the tedious trip on the subway home, etc.
- No matter you are new to this or already knew about them, no barriers will be set on your way of exploration. Different criteria of classification will be offered to meet every user's demands. If you knew nothing about them, don't worry. "Classics" and "Best Recommended" may be of help, after seeing these works and grabbing some knowledge both from info offered and comments written by others, maybe you will be capable of developing your own taste for them. For the enthusiasts, through this platform they can write their own comments for some certain works or have some debates with others, besides, communications on exchange inspirations of composing will also be easy.

## 4. Expected Users and Key Usability Goals

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- Artists:
  - Our application provide a professional platform for artists from all fields. Whether you are a novice or a master, you can find your taste we prepared for you. You also have the opportunity to learn more and improve your skills. By communicating with others who is devoted to other fields,new ideas and creativity may hit you.
- Art lovers:

- Art lovers can share everything about art Including but not limited to original works, art theory, exhibition experience. You can also have access to the latest news and information of art works, artists, the creation background and exhibitions, just organize your schedule appropriately. Talk to people who share your interests and light the spark of the harmonious souls.
- Ordinary people:
  - Ordinary people can improve their artistic aesthetic quality by taking advantage of fragmented time. Surfing in the part you are most interested in, you will have a leisure time. Empty your mind and drown in the sea of art!

## 5. Analysis of Existing Similar Products

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- There is no existing system that directly faces the community communication based on traditional Chinese painting, but only separate art presentation from the function of community communication.
- Most art related systems are aimed at Real-time information and static content push. The main function is to update some exhibition information and provide users with introduction of existing works. However, the system's large functions are not suitable for people with different backgrounds. It lacks personalization according to the interest of each person and a community where people can share their self-expression.
- Most art related systems focus on information, and there is no corresponding communication platform to meet the needs of users to make friends according to their hobbies or share what they want to share from different perspective.

## 6. Novelty and Enhancements

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- The application combine the function of introducing traditional Chinese painting with the function of community communication. we try to secularize the elegant art form as well as making Traditional Chinese painting become more popular among the common people.
- The highly dynamic information our application provide can meet the needs of users accurately. There are two main sources of information: The first one is our database. A Large data volume will be needed. Internal information can be updated in real time and pushed to the user's taste. The second one is our community. The comments and sharing from users can keep the community active and stable, and make the community a self-consistent system.
- The application blurs the line between static and dynamic data. The real death of a work is not the disappearance of material, but its disappearance in people's cognition. In our system, a traditional Chinese painting artwork is no longer limited to the existing entry and introduction. On the contrary, It will gain new vitality in people's continuous recognition by using our communication platform.

## 7. Potential for further development

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- The most basic hope is to let people who are currently interested in traditional Chinese painting know that they can use this product. We provide communities, and will release some topic activities from time to time, so that people with interests can interact and communicate together, so as to create a relatively small entertainment platform.

- The further goal is to expand its influence, attract more people to know and understand with high-quality platforms and users, and then love traditional Chinese painting.
- Then create relevant peripheral products with the theme of traditional Chinese painting , so that Chinese painting can form a trend and come into the vision of more people.

## 8. Challenges

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- In the process of commercialization, we have to face the copyright issue of paintings.
- How to build a complete database of Chinese paintings and classify them for easy indexing by users. There are many kinds of Chinese paintings, we hope to cover as many Chinese paintings as possible, and the labeling and classification of Chinese paintings is also a lot of work. Use of front-end development tools. How to skillfully use the front-end development tools to make a beautiful GUI that conforms to the theme of Chinese painting is a great challenge.
- How to expand our popularity through advertising in the early stage.
- How to expand the user group on the basis of a certain user group. After all, now people like some fast-paced things, such as short videos. Works of art such as Chinese painting may be difficult to attract people's attention.
- How to achieve profitability if commercialized in the future.

## 9. Tools to use

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- Database Construction: build a database to save the information of paintings and users
- UML(Unified Modeling Language) modeling: analyzing and designing system with UML modeling
- Front end development technology: build the front-end platform with JavaScript, Html, and other languages

## 10. Experiences to be Learned

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- Proficient in modeling with UML.
- Ability to analyze market demand and create innovation points to attract users
- Experience in software development
- Teamwork and communication skills
- Ability to combine front-end and back-end knowledge