

**CAPSTONE PROJECT REPORT**

**Report 3 – Software Requirement Specification**

**Team Coders**

– Ho Chi Minh, January 2024 –

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**I. Record of Changes**

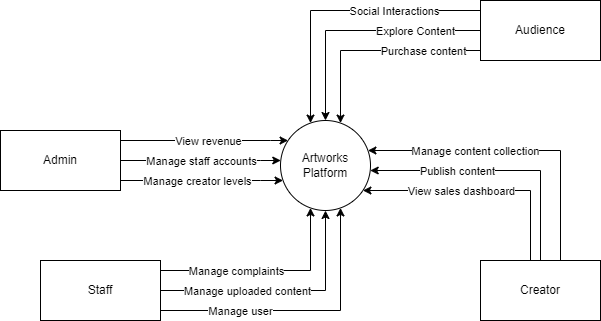
| **Date** | **A\* M, D** | **In charge** | **Change Description** |
| --- | --- | --- | --- |
| January 11, 2024 | M | Võ Thanh Tuyền, Võ Anh Hiếu, Lý Hiếu Duy | Modified section 1, 2.1, 2.2.2, 3, 4 |
| January 14, 2024 | M | Nguyễn Anh Đức, Lý Hiếu Duy, Phan Hiếu Nghĩa | Modified section 3.2, 3.10-3.15, 4.2 |
| January 18, 2024 | M | Phan Hiếu Nghĩa, Lê Tiến Đạt | Modified section 2.2.3 |
| January 22,  2024 | M | Lý Hiếu Duy, Nguyễn Anh Đức | Modified section 2.2.3 |
| January 29, 2024 | M | Võ Anh Hiếu | Modified section 2.2 |
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\*A - Added M - Modified D - Deleted

# II. Software Requirement Specification

## 1. Product Overview

The Artworks Sharing Platform is a robust and dynamic online platform designed to connect artists, art enthusiasts, and collectors in a vibrant community. This platform serves as a centralized hub for sharing, discovering, and appreciating a wide range of artworks, fostering collaboration, and supporting the growth of the artistic community. The context diagram below illustrates the external entities and system interfaces for release 1.0. The system is expected to evolve over several releases, ultimately connecting to the Internet ordering services for several local restaurants and to credit and debit card authorization services.



### Definitions, Acronyms, and Abbreviations

| **Term** | **Definition** |
| --- | --- |
| Content | Images and videos uploaded by creators. |
| Premium Contents | Images and videos that are typically not freely accessible to all users on a platform. |
| Collection | A curated set or grouping of content created by a user, which can be either public or private, and may include images and videos. |
| Report Ticket | A formalized record submitted by users to bring attention to and request action on inappropriate or violating content, issues, or concerns on the platform. |
| Suggested Category | Recommendations for content categories provided to users during the registration process. |
| Watermark | A visible overlay on images and videos added by the system to indicate ownership, prevent unauthorized use, or promote the platform. |

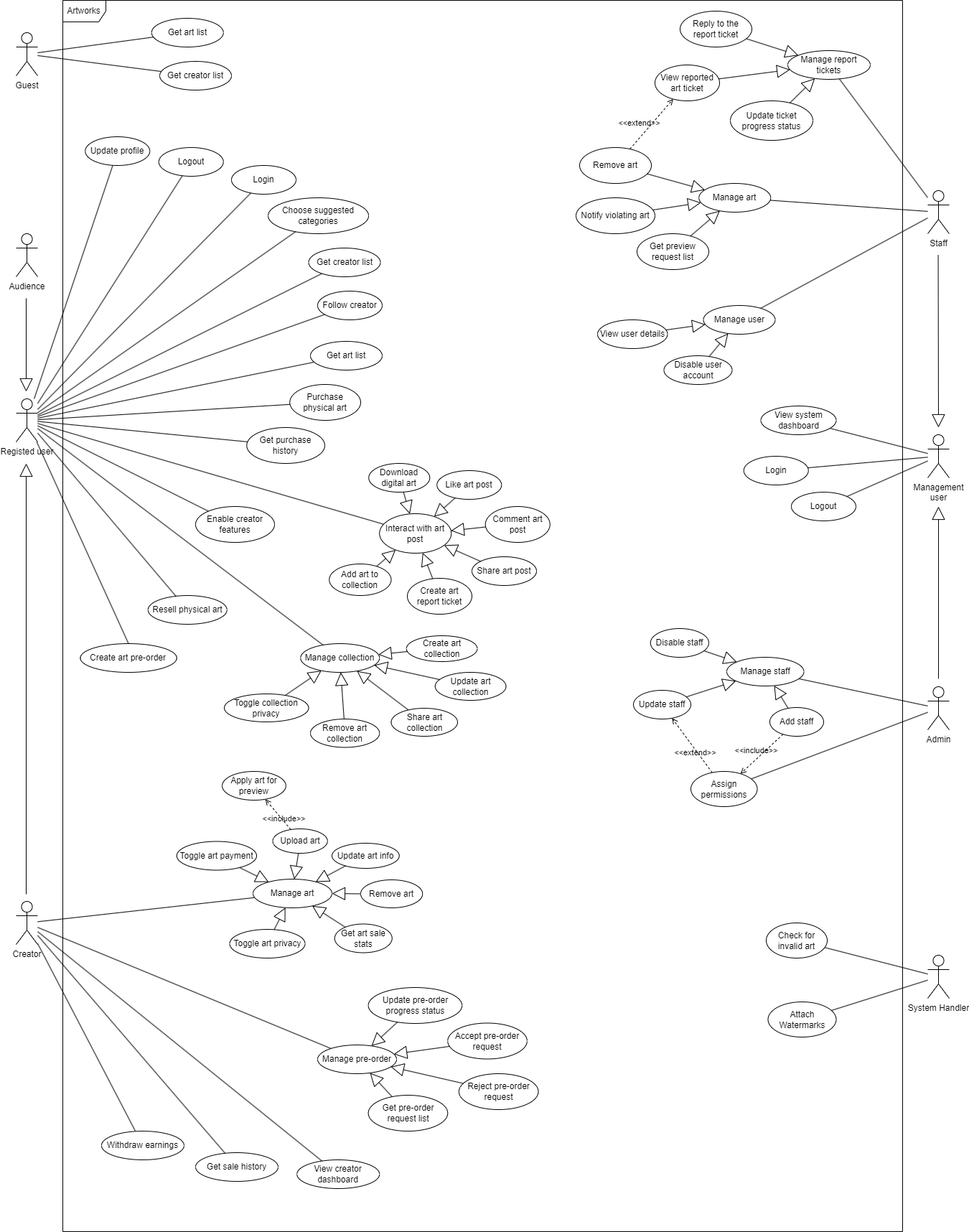
## 2. User Requirements

### 2.1 Actors

| **#** | **Actor** | **Description** |
| --- | --- | --- |
| 1 | Admin | Responsible for managing and configuring the platform settings and user permissions |
| 2 | System Handler | Responsible for detecting invalid content or violating platform rules, preventing content copying, adding watermarks after Creator posts new content |
| 3 | Guest | A person who can only view images and videos (cannot like, comment, share or buy products) |
| 4 | Audience | A person who can view images and videos, buy and pay, interact with Creators about that collection (Follow, Like, Comment, Share), can enable Creator feature for the account |
| 5 | Creator | A person who can post images and videos and sell them, withdraw sales, view sales performance statistics, send reports, follow other Creators |
| 6 | Staff | Responsible for managing complaints, posts and user accounts including Creator and Audience |

### 2.2 Use Cases

#### 2.2.1 Diagram(s)



#### 2.2.2 Descriptions

| **ID** | **Use Case** | **Actors** | **Use Case Description** |
| --- | --- | --- | --- |
| 01 | Login | All (except Guest) | Users authenticate themselves to access the system. |
| 02 | Logout | Users log out of the system. |
| 03 | Update Profile | Audience, Creator | Users update their profile information. |
| 04 | Choose suggested categories | Users choose categories suggested during the registration. |
| 05 | Resell physical art | Users resell the physical arts that they have purchased |
| 06 | Get creator list | Users view information about creators on the platform. |
| 07 | Follow creator | Users follow their favorite creators to receive updates. |
| 08 | Get art list | Users view images and videos posted by creators. |
| 09 | Purchase physical art | Users buy physical art from creators. |
| 10 | Get purchase history | Users check their history of purchased art. |
| 11 | Enable creator features | Users activate creator features to monetize their content. |
| 12 | Download content | Users download images or videos they have purchased. |
| 13 | Like content | Users express their appreciation by liking content. |
| 14 | Comment | Users provide feedback and comments on content. |
| 15 | Share content | Users share content on external platforms or with other users. |
| 16 | Create report ticket | Users create a ticket to report inappropriate content or issues. |
| 17 | Mark as favorite | Users mark content as their favorite. |
| 18 | View favorite contents | Users view a list of their favorite content. |
| 19 | Create collection | Users create a collection to organize their favorite content. |
| 20 | Edit collection | Users modify the details of an existing collection. |
| 21 | Share collection | Users share a collection with others or on social media. |
| 22 | Delete collection | Users delete a collection they created. |
| 23 | Add content to collection | Users add content to an existing collection. |
| 24 | Toggle collection privacy | Users switch between public and private modes for a collection. |
| 25 | View dashboard | Staff, Admin | Staff, and admin view a dashboard displaying system statistics. |
| 26 | Reply to the report ticket | Staff | Staff respond to users' reported content tickets. |
| 27 | Toggle resolved status | Staff mark a reported ticket as resolved. |
| 28 | View reported content | Staff view the content reported by users. |
| 29 | Remove content | Staff remove content that violates platform policies. |
| 30 | Notify violating content | Staff notify users about content violations and provide guidance. |
| 31 | View preview requests | Staff view requests for previewing content. |
| 32 | View details | Staff view detailed information about a user. |
| 33 | Disable account | Staff, Admin | Staff and admin disable a user's account. |
| 34 | Upload content | Creator | Creators upload images and videos to their profile. |
| 35 | Edit content info | Creators update details and modify the metadata of their uploaded images and videos. |
| 36 | Delete content | Creators remove unwanted content from their profile. |
| 37 | Toggle content payment | Creators enable or disable payment options for their content as needed. Contents with payment enabled are called “premium contents”. |
| 38 | Toggle content privacy | Creators control whether their images and videos are public or private. |
| 39 | Notify followers | Creators inform their followers of changes in content accessibility. |
| 40 | View content sale stats | Creators access detailed statistics on the sale performance of their content. |
| 41 | Create promotion code | Creators generate promotional code to offer discount or incentive for their contents. |
| 42 | Edit promotion code | Creators adjust the discount value or update the due dates of the promotion code. |
| 43 | Delete promotion code | Creators remove or deactivate promotional code. |
| 44 | Attach promotion code for content | Creators attach promotional code to their contents. |
| 45 | Toggle promotion code availability status | Creators enable or disable promotion codes |
| 46 | View list of content with promotion code | Creators view a list of content associated with specific promotion codes |
| 47 | View sale history | Creators access a detailed record of their sales history. |
| 48 | View dashboard | Creators access a dashboard that presents a comprehensive overview of key metrics, sales data, and audience engagement |
| 49 | Withdraw Earnings | Creators initiate the withdrawal of their accumulated earnings.  There are 2 types of earnings:   * Pending: Earnings acquired during the current month, set to become available on the first day of the next month. * Available: Earnings ready for withdrawal by the creator. |
| 50 | View creator levels benefit | Creator, Admin | Creators explore the benefits associated with their creator levels. |
| 51 | Edit creator levels benefit | Admin | Admin adjust and modify the benefits associated with creator levels. |
| 52 | Create staff | Admin add new staff members, assigning roles and permissions as needed. |
| 53 | Edit staff | Admin modify staff profiles, update roles, permissions, and other relevant details. |
| 54 | Disable staff | Admin deactivate staff profiles when necessary. |
| 55 | Check for invalid content | System Handler | System Handler performs an automatic check for invalid content and any materials that violate guidelines or policies. Then inform the staff user for further actions. |
| 56 | Attach watermarks | System Handler automatically attaches watermarks to premium contents on the platform. |

### *2.2.3 Use Case Descriptions:*

| **Use Case ID and Name:** | **UC-1: Login** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | All (Except Guest) | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to access the system. | | |
| **Description:** | User enters their username and password to authenticate themselves and access the system. | | |
| **Preconditions:** | User has registered an account on the system. | | |
| **Post–conditions:** | User is logged in and can use the system features. | | |
| **Normal Flow:** | 1. User navigates to the login page. 2. User enters their username and password. 3. System Handler validates the user credentials. 4. System Handler grants access to the user and redirects them to the home page. | | |
| **Alternative Flows:** | * User enters an invalid username or password:   + System Handler displays an error message and prompts the user to try again. * User forgets their password:   + User clicks on the “Forgot password” link.   + System Handler sends a password reset link to the user’s email address.   + User follows the link and creates a new password.   + User logs in with the new password. | | |
| **Exceptions:** | 1. Invalid Credentials:   When a user enters incorrect login credentials (username or password), you should raise an exception to handle this situation. This helps in providing meaningful error messages to users.   1. Account Lockout:   Implement a mechanism to temporarily lock user accounts after a certain number of unsuccessful login attempts. If an account is locked, raise an exception indicating that the account is temporarily disabled.   1. Account Inactivity:   If your platform has a policy for automatically logging out users after a certain period of inactivity, you may want to handle exceptions related to session timeouts. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | High | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | User has a valid email address. | | |

| **Use Case ID and Name:** | **UC-2: Logout** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | All (Except Guest) | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to log out of the system. | | |
| **Description:** | User clicks on the logout button to end their session and exit the system. | | |
| **Preconditions:** | User is logged in to the system. | | |
| **Post–conditions:** | User is logged out and cannot use the system features. | | |
| **Normal Flow:** | 1. User clicks on the logout button. 2. System Handler terminates the user session and redirects them to the login page. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | High | | |
| **Frequency of Use:** | High | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | None | | |

| **Use Case ID and Name:** | **UC-3: Update Profile** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to update their profile information. | | |
| **Description:** | User navigates to their profile page and updates their personal information. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User’s profile information is updated. | | |
| **Normal Flow:** | 1. User navigates to their profile page. 2. User clicks on the “Update Profile” button. 3. User enters new information in the relevant fields. 4. User clicks on the “Save Changes” button. 5. System Handler validates the new information. 6. System Handler updates the user’s profile with the new information | | |
| **Alternative Flows:** | User enters invalid information:  System Handler displays an error message and prompts the user to correct the information. | | |
| **Exceptions:** | 1. Invalid Input:   Check for invalid or unexpected input data, such as special characters in the name, an invalid email format, or other data validation issues. Raise an exception if the input doesn't meet the required criteria.   1. Unique Constraints:   Ensure that changes to fields like email addresses or usernames don't violate unique constraints. If an attempt is made to update a profile with a value that already exists for another user, raise an exception.   1. File Upload Issues:   If users can update their profile pictures or upload artwork files, handle exceptions related to file upload issues, such as size limits, unsupported file types, or server-side storage problems. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Medium | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | User has a valid email address. | | |

| **Use Case ID and Name:** | **UC-4: Choose Suggested Categories** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to choose categories suggested during the registration | | |
| **Description:** | During registration, the system suggests categories to the user. The user selects the categories of their interest. | | |
| **Preconditions:** | User is registering an account on the system. | | |
| **Post–conditions:** | User’s preferred categories are saved in the system | | |
| **Normal Flow:** | 1. During registration, System Handler presents a list of suggested categories to the user. 2. User selects the categories of their interest. User completes the registration process. 3. System Handler saves the user’s preferred categories. | | |
| **Alternative Flows:** | 1. User Preferences:   Allow users to set their preferences for suggested categories based on their interests during the onboarding process or within their profile settings. This way, the system can tailor suggestions according to individual tastes.   1. Recent Interactions:   Consider suggesting categories based on the user's recent interactions, such as artworks they've liked, shared, or commented on. This provides a more dynamic and personalized experience.   1. Collaborative Filtering:   Implement collaborative filtering techniques to suggest categories based on the preferences of users with similar tastes. This can create a sense of community and introduce users to categories they might not have discovered on their own. | | |
| **Exceptions:** | 1. No Suggested Categories Available:   If, for some reason, the system is unable to generate suggested categories based on user preferences or interactions, handle this gracefully. Provide a user-friendly message indicating that no suggestions are available at the moment and encourage the user to explore categories manually.   1. Technical Issues:   In case of technical issues such as server downtimes, network problems, or unexpected errors during the process of fetching or generating suggested categories, provide a meaningful error message to inform the user. Ensure that the error message is not too technical for the end-user and guides them on what to do next.   1. Insufficient Data:   If a user is new to the platform or hasn't provided enough information for the system to generate accurate suggestions, handle this scenario by gently prompting the user to enhance their profile or engage more with the platform to receive better suggestions. | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Low (only during registration) | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | User is interested in at least one category. | | |

| **Use Case ID and Name:** | **UC-5: Discover Top Creators** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to discover top creators on the platform | | |
| **Description:** | User navigates to the “Top Creators” page to view the most popular creators on the platform. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User views the list of top creators. | | |
| **Normal Flow:** | 1. User navigates to the “Top Creators” page. 2. System Handler displays a list of the most popular creators based on followers, likes, and comments | | |
| **Alternative Flows:** | 1. Genre-Based Top Creators:   Allow users to discover top creators within specific art genres or categories. This provides a more tailored experience for users with specific artistic preferences.   1. Time-Based Rankings:   Implement a time-based ranking system, such as "Top Creators of the Month" or "Top Creators of the Year." This can highlight both new and consistently excellent creators, encouraging users to explore different artists over time.   1. User-Defined Filters:   Provide users with the ability to set filters based on criteria such as artistic style, medium, or subject matter. This allows users to discover top creators that align with their individual preferences. | | |
| **Exceptions:** | 1. Insufficient Data:   If there isn't enough data available to determine top creators, handle this gracefully by providing a friendly message indicating that the feature requires more user interaction or engagement to generate meaningful rankings.   1. No Top Creators in a Specific Category:   If a user selects a niche category or genre with few creators, handle this by informing the user that there might not be enough data to generate a meaningful ranking in that specific category.   1. User Privacy Settings:   Respect user privacy settings. If a top creator has chosen to keep their profile or artworks private, handle the exception by excluding them from public rankings and providing a privacy notification. | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Medium | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | None | | |

| **Use Case ID and Name:** | **UC-6: View Creators** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to view information about a creator | | |
| **Description:** | User navigates to a creator’s profile page to view their information and content. . | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User views the creator’s profile and content. | | |
| **Normal Flow:** | 1. User searches for a creator by name or clicks on a creator’s name from a list. 2. System Handler displays the creator’s profile page, including their information and content. | | |
| **Alternative Flows:** | 1. Filter by Artistic Style:   Allow users to filter creators based on their artistic style. This could include options such as abstract, realism, digital art, traditional art, and more, giving users the ability to explore creators with similar artistic preferences.   1. Collaborative Works Showcase:   Create a dedicated section for creators who frequently collaborate with others. This provides users with the opportunity to discover teams or artists who often produce collaborative works.   1. Time-Based Showcases:   Implement time-based showcases such as "Creators of the Month" or "Weekly Highlights." This promotes a rotating selection of creators and encourages users to regularly check for new and noteworthy artists. | | |
| **Exceptions:** | 1. No Creators Found:   Handle the case where the platform is unable to find any creators based on the user's selected criteria. Provide a user-friendly message indicating that there are no creators matching the specified filters and suggest alternative filters.   1. Insufficient Data:   If a user tries to view creators, but there is insufficient data available to generate meaningful results, handle this by informing the user that more interactions or engagement with the platform are needed for better recommendations.   1. Network Connection Issues:   Handle exceptions related to network problems by providing a message to the user that there is a problem with the network connection. Encourage users to check their internet connection and try again. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | High | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | None | | |

| **Use Case ID and Name:** | **UC-7: Follow Creator** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to follow a creator | | |
| **Description:** | User clicks on the “Follow” button on a creator’s profile page to follow them and receive updates. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User follows the creator and receives updates about their new content. | | |
| **Normal Flow:** | 1. User navigates to a creator’s profile page. 2. User clicks on the “Follow” button. 3. System Handler adds the creator to the user’s following list and sends updates about the creator’s new content. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | High | | |
| **Frequency of Use:** | High | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | None | | |

| **Use Case ID and Name:** | **UC-8: View Contents** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to view a creator’s content | | |
| **Description:** | User navigates to a creator’s profile page to view their images and videos. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User views the creator’s images and videos. | | |
| **Normal Flow:** | 1. User navigates to a creator’s profile page. 2. User clicks on an image or video to view it. 3. System Handler displays the selected image or video. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | High | | |
| **Frequency of Use:** | High | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | None | | |

| **Use Case ID and Name:** | **UC-9: Purchase Contents** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to purchase a creator’s content. | | |
| **Description:** | User clicks on the “Purchase” button on a content page to buy the content. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User purchases the content and can view or download it at any time. | | |
| **Normal Flow:** | 1. User navigates to a content page. 2. User clicks on the “Purchase” button. 3. System Handler processes the payment and adds the content to the user’s purchased list. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Medium | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | User has a valid payment method. | | |

| **Use Case ID and Name:** | **UC-10: View Purchase History** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to view their purchase history | | |
| **Description:** | User navigates to their purchase history page to view their past purchases. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User views their purchase history | | |
| **Normal Flow:** | 1. User navigates to their purchase history page. 2. System Handler displays a list of the user’s past purchases. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Medium | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | User has made at least one purchase. | | |

| **Use Case ID and Name:** | **UC-11: Enable Creator Features** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to enable creator features to monetize their content | | |
| **Description:** | User navigates to their profile settings and enables creator features | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User can post and monetize their content. | | |
| **Normal Flow:** | 1. User navigates to their profile settings. 2. User clicks on the “Enable Creator Features” button. 3. System Handler enables creator features for the user. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Low | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | User has purchased a creator package. | | |

| **Use Case ID and Name:** | **UC-12: Download Content** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to download content they have purchased | | |
| **Description:** | User navigates to a content page and clicks on the “Download” button to download the content. | | |
| **Preconditions:** | User is logged in to the system. User has purchased the content. | | |
| **Post–conditions:** | User downloads the content. | | |
| **Normal Flow:** | 1. User navigates to a content page. 2. User clicks on the “Download” button. 3. System Handler initiates the download of the content. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Medium | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | User has a stable internet connection. | | |

| **Use Case ID and Name:** | **UC-13: Like Content** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to express their appreciation for a content | | |
| **Description:** | User clicks on the “Like” button on a content page to like the content. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User likes the content | | |
| **Normal Flow:** | 1. User navigates to a content page. 2. User clicks on the “Like” button. 3. System Handler records the user’s like. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | High | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | None | | |

| **Use Case ID and Name:** | **UC-14: Comment** | | |
| --- | --- | --- | --- |
| **Created By:** | Nguyễn Anh Đức | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience, Creator | **Secondary Actors:** | System Handler |
| **Trigger:** | User wants to provide feedback or comment on a content | | |
| **Description:** | User enters their comment in the comment box on a content page and posts it. | | |
| **Preconditions:** | User is logged in to the system | | |
| **Post–conditions:** | User’s comment is posted on the content page. | | |
| **Normal Flow:** | 1. User navigates to a content page. 2. User enters their comment in the comment box. 3. User clicks on the “Post Comment” button. 4. System Handler posts the user’s comment on the content page. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | None | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | High | | |
| **Business Rules:** | None | | |
| **Other Information:** | None | | |
| **Assumptions:** | None | | |

| **Use Case ID and Name:** | **UC-15: *Share Content*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | User indicates that they want to share good content | | |
| **Description:** | Users share content on external platforms or with other users. | | |
| **Preconditions:** | PRE-1. User Authentication:  The user must be logged in to their account on the artworks sharing platform.  PRE-2. Content Quality Check:  The platform may have certain quality standards, and the content should meet those standards before being shared. | | |
| **Post–conditions:** | POST-1. Shared Content Visible:  The shared content is now visible to other users on the platform.  POST-2. Notification Sent:  If applicable, notifications are sent to followers or relevant users, informing them about the newly shared content.  POST-3. Engagement Metrics Updated:  Metrics related to the shared content, such as views, likes, or comments, are updated.  POST-4. User Profile Updated:  The user's profile reflects the recently shared content. | | |
| **Normal Flow:** | 1. Login:  The user logs in to their account on the artworks sharing platform.  2. Navigate to Content:  The user navigates to the content they want to share. This could be within their profile, a gallery, or a dedicated section for managing their artworks.  3. Select Content:  The user chooses the specific artwork or content they wish to share.  4. Share Button:  The user clicks on a "Share" button or a similar feature associated with the selected content.  5. Choose Sharing Options:  If applicable, the user selects the sharing options, such as choosing whether to share the content publicly or with specific groups of users.  6. Confirm Sharing:  The platform may display a confirmation screen, summarizing the sharing details. The user confirms their intention to share.  7. Sharing Process:  The platform processes the sharing request, making the content visible to other users according to the selected sharing options.  8. Post-Sharing Interaction:  The user may engage with feedback, comments, or interactions from other users who view the shared content. | | |
| **Alternative Flows:** | 1. Technical Glitch:  In the case of unexpected technical glitches or system errors, the platform should display a user-friendly error message and prompt the user to try sharing again later.  2. Connection Issues:  The user may face connectivity issues during the sharing process. The platform should provide a friendly error message and prompt the user to check their internet connection. | | |
| **Exceptions:** | 1. Authentication Failure:  If the user fails to log in or encounters authentication issues, the platform should prompt them to re-enter their credentials or reset their password.  2. Privacy Settings Error:  If there's an issue with the user's selected privacy settings, the platform should provide clear guidance on resolving the error and updating the settings accordingly.  3. Duplicate Content:  If the platform identifies that the user is attempting to share content identical to what is already on the platform, the system may prevent the duplicate share and notify the user. | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-16: *Create report ticket*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | User indicates that they want to report a bad content | | |
| **Description:** | Users create a ticket to report inappropriate content or issues. | | |
| **Preconditions:** | PRE-1. User Authentication:  The person creating the report ticket should be authenticated and authorized to report issues or make requests. This often involves logging into a system or support portal.  PRE-2. Access to Report Ticket System:  The user should have access to the system or platform where report tickets are created. This may involve being a registered user or having specific permissions.. | | |
| **Post–conditions:** | POST-1. Ticket Creation Confirmation:  The user receives confirmation that the report ticket has been successfully created and is now part of the system for review and resolution.  POST-2. Ticket ID Assignment:  A unique ticket ID is assigned to the newly created report ticket. This ID is used for tracking and referencing the specific ticket throughout its life cycle.  POST-3. Ticket Assignment:  The report ticket is assigned to the appropriate team, department, or individual responsible for addressing the reported issue or request.  POST-4. Ticket Status:  The status of the report ticket is updated to reflect its current state in the workflow. Common statuses include "Open," "In Progress," "On Hold," and "Closed."  POST-5. Notification to Relevant Stakeholders:  If necessary, relevant stakeholders or individuals are notified about the creation of the report ticket. This may include managers, support teams, or other personnel involved in the resolution process. | | |
| **Normal Flow:** | 1. User Login:  The user logs into the system or support portal using their credentials to access the report ticket creation functionality.  2. Navigate to Report Ticket Section:  Within the system or support portal, the user navigates to the section dedicated to creating report tickets. This may involve selecting a specific category or option from the menu.  3. Select Ticket Type or Category:  The user chooses the appropriate ticket type or category based on the nature of the issue or request they are reporting. This helps in routing the ticket to the relevant department or team.  4. Fill Out Report Ticket Form:  The user completes the report ticket form, providing detailed information about the issue or request. This may include a clear description, any error messages encountered, steps to reproduce the issue, and relevant attachments. | | |
| **Alternative Flows:** | 1. Authentication Issues:  If the user encounters authentication problems while trying to log in, the system redirects them to a login page or prompts them to reset their password before proceeding with the report ticket creation.  2. Incomplete Form Submission:  If the user attempts to submit a report ticket with incomplete or missing information, the system displays an error message, indicating the specific fields that need to be filled out.  3. Duplicate Ticket Detection:  The system detects a potential duplicate report ticket based on the information provided by the user. In this case, the user may be prompted with a suggestion to review existing tickets before proceeding.  4. Invalid Ticket Type or Category:  If the user selects an invalid or inappropriate ticket type or category, the system may provide guidance on selecting the correct category or reevaluate the chosen option. | | |
| **Exceptions:** | 1. Authentication Failure:  Exception: The user encounters issues with authentication during login.  Handling: Prompt the user to check their credentials, offer a password reset option, and provide clear instructions on resolving authentication issues.  2. Network Connection Error:  Exception: The user faces network connectivity issues during the report ticket creation process.  Handling: Display a friendly error message informing the user about the connection problem and advising them to check their internet connection.  3. Invalid Form Submission:  Exception: The user submits a report ticket with incomplete or invalid information.  Handling: Highlight the specific fields with errors, provide descriptive error messages, and guide the user to correct the form submission before resubmitting | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-17: *Mark as favorite*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | The user actively selects or clicks on an option (such as a star icon or "Add to Favorites" button) associated with the item they want to mark as a favorite. | | |
| **Description:** | Users mark content as their favorite. | | |
| **Preconditions:** | PRE-1. User Authentication:  The user should be logged into their account on the platform or application where the favorite marking feature is available. This ensures that the system can associate the marked items with the user's account.  PRE-2. Item Selection:  The user must have selected or identified the specific item they want to mark as a favorite. This could be an article, image, video, document, or any other type of content depending on the platform.  PRE-3. Access to Favorite Feature:  The platform or application should provide a feature for marking items as favorites. The user needs to have access to this feature, either through a visible button, icon, menu option, or another designated interface element. | | |
| **Post–conditions:** | POST-1. Visual Confirmation:  The user receives a visual confirmation on the user interface that the selected item has been successfully marked as a favorite. This confirmation may include a change in the appearance of the item or a notification.  POST-2. Favorite Icon/Indicator:  A favorite icon or indicator is displayed next to or on the marked item, visually signifying that it has been marked as a favorite. This provides a clear visual cue to the user.  POST-3. Item Moved to Favorites Section:  If the platform organizes favorite items into a dedicated section or list, the marked item is moved or added to this section for easy access. Alternatively, the item may be visually differentiated in its original location.  POST-4. User Profile Update:  The user's profile or account information may be updated to include the newly marked item in their list of favorites. This ensures that the information is associated with the correct user account. | | |
| **Normal Flow:** | 1. User Login:  The user logs into the platform or application where the favorite marking feature is available. Authentication is necessary to associate the favorite status with the user's account.  2. Navigate to Content:  The user navigates to the content or item they want to mark as a favorite. This could be a web page, image, video, document, or any other type of content depending on the platform.  3. Identify Favorite Marking Option:  The platform provides a visible option for marking items as favorites. This could be a star icon, a heart icon, or a designated button associated with each item.  4. Select Favorite Marking Option:  The user interacts with the favorite marking option, such as clicking the star icon or pressing a "Mark as Favorite" button. This action indicates the user's intent to mark the item as a favorite.  5. Visual Confirmation:  The system provides a visual confirmation on the user interface, such as a change in the appearance of the item or a notification, to inform the user that the item has been successfully marked as a favorite. | | |
| **Alternative Flows:** | 1. Authentication Failure:  Exception: The user is not successfully authenticated during login.  Handling: Redirect the user to the login page and prompt them to enter valid credentials before proceeding with the favorite marking action.  2. Item Unavailability:  Exception: The item the user wants to mark as a favorite is no longer available or has been removed.  Handling: Display a message informing the user about the unavailability of the item and suggest alternative actions or similar items.  3. Favorite Marking Limit Reached:  Exception: The user has reached the maximum limit for marking items as favorites.  Handling: Notify the user about the limit and provide options to unmark existing favorites or upgrade their account to increase the limit. | | |
| **Exceptions:** | 1. Unsupported Content Type:  Exception: The user attempts to mark an item as a favorite, but the content type is not supported for this action.  Handling: Display a message indicating that the selected content type cannot be marked as a favorite and suggest alternative actions. Provide guidance on the supported content types for favoriting.  2. Insufficient Permissions:  Exception: The user lacks the necessary permissions to mark items as favorites.  Handling: Display a message informing the user about their permissions level and advise them to contact an administrator or upgrade their account if needed. Clearly communicate the steps required to gain the necessary permissions.  3. Undo Favorite Marking:  Exception: The user accidentally marks an item as a favorite and wants to undo the action immediately.  Handling: Provide a visible "Undo" option or confirmation dialog allowing the user to reverse the favorite marking action. Ensure that the undo option is easily accessible and clearly communicated to the user.  Handling these exceptions gracefully ensures that users are g | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-18: *View favorite content*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | The user actively selects a "View Favorites" option, button, or icon within the platform or application. | | |
| **Description:** | Users view a list of their favorite content. | | |
| **Preconditions:** | PRE-1: Account and Login:  Ensure that you have an account on the artworks sharing platform.  Log in to your account using your username and password.  PRE-2: Favorite/Bookmark Feature:  Confirm that the platform has a feature for marking artworks as favorites or bookmarking them. | | |
| **Post–conditions:** | POST-1. Content Viewing:  You have successfully viewed your favorite artworks on the platform.  POST-2. Interactions:  You may have interacted with the content, such as liking, commenting, or sharing your favorite artworks.  POST-3. Updated Preferences:  Your preferences and favorites list may be updated based on the artworks you've recently viewed or interacted with.  POST-4. Notification Status:  Any notifications related to your favorite content, such as new comments, likes, or updates, may be addressed.  POST-5. Satisfaction:  You may feel satisfied or pleased after rediscovering or enjoying your favorite artworks on the platform. | | |
| **Normal Flow:** | 1. Login:  Open the artworks sharing platform.  Log in to your account using your username and password.  2. Navigate to Profile:  Look for a profile icon or your username on the platform's interface.  Click on your profile to access your personal space.  3. Access Favorites/Bookmarks:  Within your profile, find a section labeled "Favorites," "Bookmarks," or something similar.  Click on this section to view the list of artworks you've marked as favorites.  4. Browse Favorite Artworks:  You should see a grid or list of your favorite artworks.  Browse through the artworks to find the ones you want to view.  5. View Artwork Details:  Click on a specific artwork to view its details, including the artist's name, description, and any comments.. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | 1. No Favorites Exist:  Handling: If the user does not have any artworks marked as favorites, the platform may display a message or an empty state indicating that there are no favorites. Encourage the user to explore and mark artworks as favorites.  2. Technical Issues:  Handling: If there are technical issues preventing the display of favorite content, the platform should provide an error message, and the user might be prompted to refresh the page or check their internet connection. | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-19: *Create collection*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | The user wishes to organize and categorize these diverse artworks into curated collections based on specific criteria, such as artist, genre, color scheme, or personal preferences. | | |
| **Description:** | Users create a collection to organize their favorite content. | | |
| **Preconditions:** | PRE-1. User Account:  The user must have a registered account on the artwork sharing platform.  They need to be logged in to their account to access features related to creating and managing collections.  PRE-2. Access to Artworks:  The platform should provide a variety of artworks for users to discover and select for their collections.  The user may have already marked some artworks as favorites or discovered them during their exploration of the platform. | | |
| **Post–conditions:** | POST-1. Visible Collection:  The newly created collection is now visible and accessible on the user's profile or collections section of the platform.  POST-2. Artworks Added:  The artworks selected by the user have been successfully added to the collection.  POST-3. Metadata and Descriptions:  Any metadata, descriptions, or additional information provided by the user for the collection or individual artworks are now associated with the collection.  POST-4. Organization and Structure:  The artworks within the collection are organized based on the user's preferences, such as a specific order or grouping. | | |
| **Normal Flow:** | 1. Login:  The user opens the artwork sharing platform and logs in to their account using their credentials.  2. Navigate to Profile:  The user navigates to their profile section on the platform, where they can manage and organize their content.  3. Access Collections or Create New:  The platform may have a dedicated section for collections. The user either accesses this section or initiates the creation of a new collection.  4. Name and Description:  The user provides a name for the collection and, optionally, adds a description to provide context or information about the collection's theme.  5. Add Artworks:  The user browses through their favorite artworks or explores new ones on the platform. They select individual artworks to add to the collection.  6. View Collection:  The user can now view the newly created collection in their profile or in the dedicated collections section of the platform. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | 1. Artwork Unavailability:  Handling: If an artwork the user wants to add to the collection is temporarily or permanently unavailable (removed by the artist, copyright issues, etc.), the platform should notify the user and suggest alternatives.  2. Technical Glitch during Collection Creation:  Handling: In the event of a technical glitch or error during the collection creation process, the platform should display an error message and guide the user on potential solutions, such as refreshing the page or checking their internet connection. | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-20: *Edit collection*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | a user's desire to make changes, updates, or improvements to an existing collection | | |
| **Description:** | Users modify the details of an existing collection. | | |
| **Preconditions:** | PRE-1. User Account:  The user must have a registered account on the artwork sharing platform.  They need to be logged in to their account to access features related to editing collections.  PRE-2. Existing Collection:  The user must have previously created at least one collection on the platform that they intend to edit.  PRE-3. Access to Edit Features:  The platform should provide specific features and tools that allow users to edit collections.  These features may include options for adding or removing artworks, reorganizing the order, updating metadata, or changing accessibility settings.  PRE-4. Artworks in the Collection:  The collection that the user intends to edit must already contain at least one artwork.  If the collection is empty, the user may need to add artworks before proceeding with edits. | | |
| **Post–conditions:** | POST-1. Updated Collection:  The collection has been successfully updated with the changes made by the user during the editing process.  POST-2. Artwork Changes:  Any modifications to individual artworks within the collection, such as new additions, removals, or replacements, have been applied.  POST-3. Reorganized Order:  If the user chose to reorganize the order of artworks within the collection, the new order is now reflected. | | |
| **Normal Flow:** | 1. Login:  The user opens the artwork sharing platform and logs in to their account using their credentials.  2. Navigate to Collections:  The user navigates to the collections section of the platform. This could be in their profile or a dedicated collections area.  3. Select Collection to Edit:  The user chooses the specific collection they want to edit from the list of their existing collections.  4. Access Edit Features:  The platform provides options to edit the collection. This may include buttons or menus for adding or removing artworks, reorganizing, updating metadata, or changing accessibility settings.  5. Review Collection:  The user reviews the current content, arrangement, and information associated with the selected collection.  6. Make Edits:  The user makes the desired edits to the collection, which may include adding new artworks, removing existing ones, reordering them, updating metadata, or adjusting accessibility settings. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | 1. Artwork Unavailability:  Handling: If an artwork that the user wants to add to the collection is temporarily or permanently unavailable (removed by the artist, copyright issues, etc.), the platform should notify the user and suggest alternatives.  2. Technical Glitch during Editing:  Handling: In the event of a technical glitch or error during the editing process, the platform should display an error message and guide the user on potential solutions, such as refreshing the page or checking their internet connection.  3. Incomplete Metadata:  Handling: If the user forgets to provide essential information or metadata for an artwork within the collection, the platform can prompt them to fill in the missing details before saving changes. | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-21: *Share collection*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | a user's desire to showcase their curated content with others | | |
| **Description:** | Users share a collection with others or on social media. | | |
| **Preconditions:** | PRE-1. User Account:  The user must have a registered account on the artwork sharing platform.  They need to be logged in to their account to access features related to sharing collections.  PRE-2. Existing Collection:  The user must have previously created at least one collection on the platform that they intend to share.  PRE-3. Access to Sharing Features:  The platform should provide specific features and tools that allow users to share collections.  These features may include options for setting the visibility (public, private, shared with specific users), sharing links, or using social media integrations.  PRE-4. Navigate to Collections Section:  The user needs to navigate to the section of the platform where their collections are listed.  This could be in their profile or a dedicated collections area.  PRE-5. Review of Collection:  The user reviews the content, arrangement, and information associated with the collection to ensure it aligns with their intentions for sharing. | | |
| **Post–conditions:** | POST-1. Visible Shared Collection:  The shared collection is now visible and accessible on the platform, either in the user's profile, a dedicated collections area, or through a shareable link.  POST-2. Set Visibility Applied:  If the user chose specific visibility settings (public, private, shared with specific users), these settings have been successfully applied to the shared collection.  POST-3. Feedback and Engagement Metrics:  Users may start providing feedback in the form of likes, comments, or shares on the shared collection. Engagement metrics are recorded and displayed. | | |
| **Normal Flow:** | 1. Login:  Open the artwork sharing platform and log in to your account using your credentials.  2. Navigate to Collections:  Go to the collections section, either in your profile or a dedicated collections area.  3. Select Collection to Share:  Choose the specific collection you want to share from the list of your existing collections.  4. Access Sharing Features:  Look for sharing options or features provided by the platform. This may include buttons or menus for setting visibility, sharing links, or utilizing social media integrations. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | 1. Technical Glitch during Sharing:  Handling: In the event of a technical glitch or error during the sharing process, the platform should display an error message and guide the user on potential solutions, such as refreshing the page or checking their internet connection.  2. Privacy Settings Conflict:  Handling: If there is a conflict between the collection's privacy settings and the user's sharing intent (e.g., trying to share a private collection publicly), the platform should prompt the user to review and adjust the settings accordingly.  3. Social Media Integration Error:  Handling: If there is an error during the integration with social media platforms (e.g., failed authorization or connection issues), the platform should provide guidance on resolving the integration problem.. | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-22: *Delete collection*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | a user's decision to remove a curated collection from their profile or the platform | | |
| **Description:** | Users delete a collection they created. | | |
| **Preconditions:** | PRE-1. User Account:  The user must have a registered account on the artwork sharing platform.  They need to be logged in to their account to access features related to deleting collections.  PRE-2. Existing Collection:  The user must have previously created at least one collection on the platform that they intend to delete.  PRE-3. Access to Delete Features:  The platform should provide specific features and tools that allow users to delete collections.  These features may include buttons or menus for removing the entire collection from the user's profile. | | |
| **Post–conditions:** | POST-1. Deleted Collection:  The targeted collection has been successfully deleted from the user's profile or the artwork sharing platform.  POST-2. Removal of Artworks:  All artworks within the deleted collection are removed from the user's profile or the platform. These artworks are no longer associated with the deleted collection.  POST-3. Update in Engagement Metrics:  If the collection had received engagement metrics such as likes, comments, or shares, these metrics are updated to reflect the removal of the deleted collection.  POST-4. Confirmation Message:  The platform provides a confirmation message or notification to the user, acknowledging the successful deletion of the collection. | | |
| **Normal Flow:** | 1. Login:  Open the artwork sharing platform and log in to your account using your credentials.  2. Navigate to Collections:  Go to the collections section, either in your profile or a dedicated collections area.  3. Select Collection to Delete:  Choose the specific collection you want to delete from the list of your existing collections.  4. Access Delete Features:  Look for delete options or features provided by the platform. This may include buttons or menus for removing the entire collection from your profile.  5. Confirmation Prompt:  The platform provides a confirmation prompt or dialog to ensure that you intentionally want to delete the collection, as this action is irreversible. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | 1. Technical Glitch during Deletion:  Handling: In the event of a technical glitch or error during the deletion process, the platform should display an error message and guide the user on potential solutions, such as refreshing the page or checking their internet connection.  2. Collection Deletion Confirmation Cancelled:  Handling: If the user initiates the deletion process but decides to cancel the confirmation, the platform should provide an option to abort the deletion and keep the collection intact.  3. Collection Shared with Others:  Handling: If the collection was shared with other users and has received engagement (likes, comments, shares), the platform should warn the user about the potential impact of deletion on these interactions. The user can then decide whether to proceed with the deletion or review their decision. | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-23: *Add content to collection*** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Audience | **Secondary Actors:** | Creator |
| **Trigger:** | a user's decision to curate and organize specific artworks within a unified theme or concept. | | |
| **Description:** | Users add content to an existing collection. | | |
| **Preconditions:** | PRE-1. User Account:  The user must have a registered account on the artwork sharing platform.  They need to be logged in to their account to access features related to creating or editing collections.  PRE-2. Existing Collection:  The user must have already created at least one collection on the platform, whether it's a new collection or an existing one to which they want to add more content.  PRE-3. Access to Collection Editing Features:  The platform should provide specific features and tools that allow users to edit or add content to their collections.  These features may include buttons or menus for adding artworks, editing descriptions, or adjusting the arrangement of artworks within a collection. | | |
| **Post–conditions:** | POST-1. Updated Collection:  The targeted collection has been successfully updated with the newly added content, including one or more artworks.  POST-2. Arrangement of Artworks:  The artworks within the collection are arranged based on the user's preferences, whether it's chronological, thematic, or in a specific order.  POST-3. Engagement Metrics:  If the collection receives engagement metrics such as likes, comments, or shares, these metrics are updated to reflect the addition of new content. | | |
| **Normal Flow:** | 1. Login:  Open the artwork sharing platform and log in to your account using your credentials.  2. Navigate to Collections:  Go to the collections section, either in your profile or a dedicated collections area.  3. Select Collection to Edit:  Choose the specific collection to which you want to add content from the list of your existing collections.  4. Access Collection Editing Features:  Look for collection editing options or features provided by the platform. This may include buttons or menus for adding new artworks to the collection. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | 1. Upload Failure:  Handling: If there is a failure during the upload process (e.g., due to file format issues, size limitations, or connectivity problems), the platform should display an error message and guide the user on how to address the issue.  2. Duplicate Artwork:  Handling: If the user accidentally attempts to add an artwork that already exists within the same collection, the platform should provide a warning or prompt suggesting that the artwork may be a duplicate. | | |
| **Priority:** | High | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-29: Remove content** | | |
| --- | --- | --- | --- |
| **Created By:** | Lý Hiếu Duy | **Date Created:** | 22/01/2024 |
| **Primary Actor:** | Staff | **Secondary Actors:** |  |
| **Trigger:** | Staff wants inappropriate content removed. | | |
| **Description:** | Staffcan remove inappropriate content from the system. | | |
| **Preconditions:** | The staff has logged into the system. | | |
| **Post–conditions:** | Content is deleted from the system. | | |
| **Normal Flow:** | 1. The employee selects the content to delete.  2. The system confirms the deletion request.  3. The employee confirms the deletion request.  4. The system deletes the content.  5. The system notifies employees of successful deletion. | | |
| **Alternative Flows:** | none | | |
| **Exceptions:** | If the content does not exist, the system will report an error. | | |
| **Priority:** | **High (Medium, Low)** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-30: Notify violating content** | | |
| --- | --- | --- | --- |
| **Created By:** | Dat | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Staff | **Secondary Actors:** | System, User |
| **Trigger:** | Staff detects violating content | | |
| **Description:** | Staff can report violating content to let the system or other users know. | | |
| **Preconditions:** | The staff has logged into the system and detected violating content. | | |
| **Post–conditions:** | Violation content is flagged and notified to relevant people | | |
| **Normal Flow:** | 1. Staff selects violating content.  2. The staff selects the violation notification function.  3. Staff confirms violation notification request.  4. The system marks the violating content and sends a notification to the relevant person. | | |
| **Alternative Flows:** | none | | |
| **Exceptions:** | If the content does not exist, the system will report an error. | | |
| **Priority:** | **High (Medium, Low)** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-31: View preview requests** | | |
| --- | --- | --- | --- |
| **Created By:** | Dat | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Staff | **Secondary Actors:** | System, User |
| **Trigger:** | Staff wants to see preview requests. | | |
| **Description:** | Staff can view preview requests from users. | | |
| **Preconditions:** | The staff has logged into the system. | | |
| **Post–conditions:** | The agent has seen the preview requests. | | |
| **Normal Flow:** | 1. The staff selects the preview request viewing function.  2. The system displays a list of preview requests.  3. Staff view detailed information of each request. | | |
| **Alternative Flows:** | none | | |
| **Exceptions:** | If there are no preview requests, the system will notify you that there are no requests | | |
| **Priority:** | **High (Medium, Low)** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-32: View details** | | |
| --- | --- | --- | --- |
| **Created By:** | Dat | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Staff | **Secondary Actors:** | System |
| **Trigger:** | The staff wants to see detailed information about the user. | | |
| **Description:** | Staff can view detailed information about users from the system. | | |
| **Preconditions:** | The staff has logged into the system. | | |
| **Post–conditions:** | The employee has seen detailed information about the user. | | |
| **Normal Flow:** | 1. The staff selects the function to view user information.  2. The system displays a list of users.  3. The employee selects a user from the list.  4. The system displays detailed information about the selected user. | | |
| **Alternative Flows:** | none | | |
| **Exceptions:** | If the user does not exist, the system will report an error. | | |
| **Priority:** | **High (Medium, Low)** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-33: Disable account** | | |
| --- | --- | --- | --- |
| **Created By:** | Dat | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Staff, Admin | **Secondary Actors:** | System |
| **Trigger:** | An staff or admin wants to disable a user's account. | | |
| **Description:** | Staff or admin can disable user accounts in the system. | | |
| **Preconditions:** | The staff or admin has logged into the system. | | |
| **Post–conditions:** | User account has been disabled. | | |
| **Normal Flow:** | 1. The staff or admin selects the user account to disable.  2. The system confirms the request to disable the account.  3. The staff or admin confirms the request to disable the account.  4. The system disables the user account.  5. The system notifies staff or admin of successful account deactivation. | | |
| **Alternative Flows:** | none | | |
| **Exceptions:** | If the user account does not exist, the system will report an error. | | |
| **Priority:** | **High (Medium, Low)** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-34: Upload content** | | |
| --- | --- | --- | --- |
| **Created By:** | Dat | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** | System |
| **Trigger:** | Creator wants to upload content. | | |
| **Description:** | A creator can upload content by providing necessary information such as content title, description, and the content file itself. | | |
| **Preconditions:** | The creator has logged into the system. | | |
| **Post–conditions:** | Content is uploaded and stored in the system.  Creator receives a confirmation of successful upload. | | |
| **Normal Flow:** | 1. User navigates to the content upload section.  2. User enters the content title and description.  3. User selects the content file to upload.  4. User submits the form.  5. System validates the information and uploads the content.  6. System sends a confirmation message to the user. | | |
| **Alternative Flows:** | If the system fails to upload the content, an error message is displayed to the user. | | |
| **Exceptions:** | If the content file is too large, the system displays an error message. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | Depends on the user's content creation frequency. | | |
| **Business Rules:** | Content must comply with the platform's content policy. | | |
| **Other Information:** | Uploaded content can be any type of file (e.g., .txt, .pdf, .jpg, etc.), but must not exceed the maximum file size limit | | |
| **Assumptions:** | The system has enough storage to accommodate the uploaded content. | | |

| **Use Case ID and Name:** | **UC-35: Edit content info** | | |
| --- | --- | --- | --- |
| **Created By:** | Dat | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** | System |
| **Trigger:** | Creator wants to edit the information of an existing content. | | |
| **Description:** | A creator can edit the information of their uploaded content such as title, description, etc. | | |
| **Preconditions:** | User is logged in as a creator.  The content to be edited exists and is owned by the user | | |
| **Post–conditions:** | The content information is updated in the system. | | |
| **Normal Flow:** | 1. User navigates to the content they want to edit.  2. User selects the option to edit content information.  3. User updates the necessary information.  4. User submits the changes.  5. System validates and saves the changes. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | If the system fails to save the changes, an error message is displayed to the user. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | Depends on the user's content creation frequency. | | |
| **Business Rules:** | Changes must comply with the platform's content policy | | |
| **Other Information:** |  | | |
| **Assumptions:** | The system can handle the update requests. | | |

| **Use Case ID and Name:** | **UC-36: Delete content** | | |
| --- | --- | --- | --- |
| **Created By:** | Dat | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** | System |
| **Trigger:** | Creator wants to delete an existing content. | | |
| **Description:** | A creator can delete their uploaded content. | | |
| **Preconditions:** | User is logged in as a creator.  The content to be deleted exists and is owned by the user. | | |
| **Post–conditions:** | The content is removed from the system. | | |
| **Normal Flow:** | 1. User navigates to the content they want to delete.  2. User selects the option to delete content.  3. System asks for confirmation.  4. User confirms the deletion.  5. System deletes the content. | | |
| **Alternative Flows:** | None | | |
| **Exceptions:** | If the system fails to delete the content, an error message is displayed to the user. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | Depends on the user's need to remove their content. | | |
| **Business Rules:** | Deleted content cannot be recovered. | | |
| **Other Information:** |  | | |
| **Assumptions:** | The system can handle the deletion requests. | | |

| **Use Case ID and Name:** | **UC-40: *Notify Followers*** | | |
| --- | --- | --- | --- |
| **Created By:** | Hieu Nghia | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** |  |
| **Trigger:** | Creator updates content accessibility settings (e.g., enabling or disabling payment, changing privacy). | | |
| **Description:** | Creators can inform their followers of changes in content accessibility. This notification helps keep followers updated on any modifications made to the creator's content. | | |
| **Preconditions:** | Allows creators to inform their followers about changes in content accessibility settings, provided that the necessary preconditions are met. | | |
| **Post–conditions:** |  | | |
| **Normal Flow:** | 1. Creator accesses their account. 2. Creator makes changes to content accessibility settings. 3. Creator clicks the "Notify Followers" button. 4. System sends notifications to opted-in followers. 5. Followers receive notifications and are informed of the changes. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | If there is a technical issue preventing the system from sending notifications, the process will not be successful. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

### 

| **Use Case ID and Name:** | **UC-41: *Create Promotion Code*** | | |
| --- | --- | --- | --- |
| **Created By:** | Hieu Nghia | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** |  |
| **Trigger:** | Creator accesses their profile and selects the option to create a promotion code. | | |
| **Description:** | Creators can generate promotional codes to offer discounts or incentives for their contents. This allows creators to run promotional campaigns on their premium content. | | |
| **Preconditions:** | The creator must have an active account, access rights, and fill in the required details, and the system should validate the inputs and generate a unique code for the creator's content. | | |
| **Post–conditions:** |  | | |
| **Normal Flow:** | 1. The creator accesses their profile and selects the option to create a promotion code. 2. They enter the code details. 3. The system validates the input. 4. If validation is successful, a unique promotion code is generated. 5. The code is made available for customers to use. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | If the system fails to create promotion code, an error message is displayed to the user. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-42: *Edit Promotion Code*** | | |
| --- | --- | --- | --- |
| **Created By:** | Hieu Nghia | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** |  |
| **Trigger:** | Creator accesses their profile and selects a specific promotion code to edit. | | |
| **Description:** | Creators can adjust the discount value or update the due dates of existing promotion codes. This allows them to manage and optimize their promotional offers. | | |
| **Preconditions:** | The user must be a logged-in creator with an existing code and access to the editing functionality. | | |
| **Post–conditions:** | The promotion code details are updated in the database and the user is provided with a confirmation message. | | |
| **Normal Flow:** | 1. User log into their profile as a creator. 2. User selects a promotion code to edit. 3. User modifies the discount value and/or due dates. 4. User saves the changes. 5. System validates the modifications. 6. If valid, the system updates the promotion code details in the database. 7. System displays a confirmation message of successful editing. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | If the system fails to edit promotion code, an error message is displayed to the user. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** |  | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-43: *Delete Promotion Code*** | | |
| --- | --- | --- | --- |
| **Created By:** | Hieu Nghia | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** |  |
| **Trigger:** | Creator accesses their profile and selects a specific promotion code to delete. | | |
| **Description:** | Creators can remove or deactivate existing promotion codes. This action prevents users from using the promotion code for discounts. | | |
| **Preconditions:** | The creator must be logged in to their profile and must have the necessary permissions to delete promotion codes. | | |
| **Post–conditions:** | The selected promotion code is successfully removed, rendering it inactive and preventing users from using it for discounts. | | |
| **Normal Flow:** | 1. The creator logs in to their profile. 2. The creator selects the desired promotion code to delete. 3. The creator confirms the deletion action. 4. The system removes the selected promotion code from the database. 5. The system provides confirmation to the creator that the deletion was successful. 6. The deleted promotion code is rendered inactive and cannot be used for discounts. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | If the system fails to delete promotion code, an error message is displayed to the user. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | Depending on the specific needs and activities of the creators | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

### 

| **Use Case ID and Name:** | **UC-44: *Attach Promotion Code for Content*** | | |
| --- | --- | --- | --- |
| **Created By:** | Hieu Nghia | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** |  |
| **Trigger:** | Creator selects a piece of content and attaches a promotion code to it. | | |
| **Description:** | Creators can associate specific promotion codes with their content, allowing users to apply the code for discounts when purchasing the content. | | |
| **Preconditions:** | The creator being logged in, the content and promotion code being available in the system, and the system's database and necessary resources being accessible and operational. | | |
| **Post–conditions:** | The promotion code is successfully attached to the selected content, enabling users to apply the code for discounts when purchasing. | | |
| **Normal Flow:** | 1. Creator logs into the system. 2. Creator navigates to the content management section. 3. Creator selects the desired content. 4. Creator chooses or enters a promotion code and then clicks the "Attach Code" button. 5. System validates the attachment. 6. If validation is successful, the system associates the promotion code with the content in the database. 7. System confirms successful attachment to the creator. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | If the promotion code is invalid or not applicable to the selected content, the system encounters database or validation errors | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | Based on content creation and promotional activities. | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

| **Use Case ID and Name:** | **UC-45: *Toggle Promotion Code Availability Status*** | | |
| --- | --- | --- | --- |
| **Created By:** | Hieu Nghia | **Date Created:** | 18/01/2024 |
| **Primary Actor:** | Creator | **Secondary Actors:** |  |
| **Trigger:** | Creator accesses their profile and selects a specific promotion code to toggle its availability status. | | |
| **Description:** | Creators can enable or disable promotion codes as needed. This action controls whether the promotion code is active and can be used by users for discounts. | | |
| **Preconditions:** | Must be logged into their profile, select the desired promotion code, have the necessary permissions, and confirm the changes before saving them. | | |
| **Post–conditions:** | The database and user interface reflect the updated status, impacting the accessibility of the promotion code for users. | | |
| **Normal Flow:** | 1. The creator accesses their profile or an administrative section of the system. 2. They select the specific promotion code they want to modify. 3. The creator toggles the availability status using a switch or checkbox. 4. They save the changes. 5. The system updates the database and user interface to reflect the modified availability status. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | If the system fails to toggle promotion code, an error message is displayed to the user. | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | Depends on promotional activities, ranging from occasional updates | | |
| **Business Rules:** |  | | |
| **Other Information:** |  | | |
| **Assumptions:** |  | | |

## 3. Functional Requirements

### 3.1 System Functional Overview

The artwork sharing platform is a software system that allows users to share and discover various forms of artwork. It provides functionality for users to upload, browse, search, and interact with artworks. The system supports different user roles such as artists, collectors, and general users. Users can authenticate themselves and have access to specific features based on their roles. The system also includes non-screen functions such as data processing and database management. The system's data is stored in an Entity-Relationship Diagram (ERD) format

### 3.2 User Registration and Authentication

#### 3.2.1 User Registration

* **Function Trigger:**
  + User visits the platform for the first time or wants to create an account.
* **Function Description:**
  + Any user can register for an account by providing their personal information such as username, email address, and password.
* **Screen Layout:**
  + The screen layout should include fields for entering the required user information (e.g., username, email, password) and a button for submitting the registration form.
* **Function Details**:
  + Upon registration, the system validates the provided information for uniqueness and correctness. The username and email address should be unique, and the password should meet certain complexity requirements. Once the registration is successful, the user is added to the system's user database.

#### 3.2.2 User Login

* **Function Trigger**:
  + Registered users want to access their accounts.
* **Function Description:**
  + Users can log in to the platform by providing their credentials (username and password).
* **Screen Layout:**
  + The screen layout should include fields for entering the username and password and a button for submitting the login form.
* **Function Details:**
  + The system verifies the provided credentials against the stored user database. If the credentials are valid, the user is granted access to their account and can proceed to use the platform's features. In case of invalid credentials, appropriate error messages are displayed.

### 3.3 Artwork Upload

#### 3.3.1 Upload Artwork

* **Function Trigger:** 
  + Authenticated users want to upload their artwork to the platform.
* **Function Description:** 
  + Users can upload their artwork files along with relevant information such as title, description, category, and tags.
* **Screen Layout:** 
  + The screen layout should include fields for selecting artwork files, entering artwork details, and a button for submitting the upload form.
* **Function Details:** 
  + Upon upload, the system validates the artwork files to ensure they meet the supported file format requirements. The system also validates the entered information for completeness. Once the upload is successful, the artwork is stored in the system's database, associated with the user who uploaded it.

#### 3.3.2 Edit Artwork Details

* **Function Trigger:** 
  + Authenticated users want to modify the details of their uploaded artwork.
* **Function Description:** 
  + Users can edit the title, description, category, and tags associated with their artwork.
* **Screen Layout:** 
  + The screen layout should display the existing artwork details and provide fields for modifying the information. It should also include a button for submitting the changes.
* **Function Details:** 
  + The system retrieves the existing artwork details and displays them on the screen. Users can make desired modifications and submit the changes. The system validates the modified information and updates the artwork's details in the database.

### 3.4 Withdraw Earning

* **Function Trigger:** 
  + Creators navigate to their account dashboard where withdrawal options are available.
* **Function Description:** 
  + Creators initiate withdrawal request and provide multiple methods such as bank transfer, PayPal and transaction confirmation
* **Screen Layout:** 
  + The screen layout should include balance display, withdrawal form, payment method options. Then, transaction summary and status tracker
* **Function Details:** 
  + The system shows the creator’s current earnings prominently on the screen. Withdrawal form include fields for creator to enter the withdrawal amount and select their preferred payment method. After initiating the withdrawal, the present a summary of the transaction, including withdrawal amount, chosen payment method and any applicable fees

### 3.5 Create Staff

* **Function Trigger:** 
  + The function is triggered by users with administrative privileges, access within an admin dashboard or control panel.
* **Function Description:** 
  + Provide a form to input details for creating a new staff member. Allow administrators to assign specific roles or permissions to the new staff member
* **Screen Layout:** 
  + The screen layout should include admin dashboard, staff management section, user creation form, role assignment options and confirm message
* **Function Details:** 
  + The system include user creation form include Full Name, Email, Contact Information, Password. Allow administrators to select or define the role permissions for the new staff member.

### 3.6 Edit Creator Level Benefits

* **Function Trigger:** 
  + The function is triggered by users with administrative privileges, Dedicated admin panel, creator level management section.
* **Function Description:** 
  + Provide a form to edit the benefits associated with a specific creator level, ensure that only authorized administrators can access and modify creator level benefits.
* **Screen Layout:** 
  + The screen layout should include admin dashboard, creator level management section, dropdown menu or selector, benefit editing form.
* **Function Details:** 
  + The system includes benefit editing form such as Access to premium features, revenue share percentages, role verification, historical tracking. User Management Section within a comprehensive user or creator management section.

### 3.7 Edit Staff

* **Function Trigger:** 
  + Administrative Access: The function is triggered by users with administrative privileges.
  + Dedicated Admin Panel: Accessible within an admin dashboard or control panel.
  + Staff Management Section: Located within an administrative interface specifically designed for managing staff members
* **Function Description:** 
  + Staff Editing Form: Provide a form to edit details for an existing staff member.
  + Role Adjustment: Allow administrators to adjust the roles, permissions, or access levels of a staff member.
  + Security Measures: Implement authentication and authorization checks to ensure only authorized users can edit staff information.
  + Notification: Notify relevant parties about changes made to staff details
* **Screen Layout:** 
  + Admin Dashboard: Navigate to a dedicated admin dashboard or control panel.
  + Staff Management Section: Locate the "Edit Staff" function within a section dedicated to managing staff members.
  + Dropdown Menu or Selector: Include a menu or selector to choose the specific staff member whose details need to be edited.
  + Staff Editing Form: Display a form with fields for editing staff details, such as name, email, role, and contact information.
  + Confirmation Message: Present a confirmation message or summary of the successfully edited staff details.
* **Function Details:** 
  + The system includes staff editing form, such as: fullname, email, contact, role, allow administrators to adjust the roles or permissions of the staff member. Security Measure implement authentication checks to ensure that only users with administrative privileges can access and modify staff information

### 3.8 Disable Staff:

* **Function Trigger:** 
  + Administrative Access: The function is triggered by users with administrative privileges.
  + Dedicated Admin Panel: Accessible within an admin dashboard or control panel.
  + Staff Management Section: Located within an administrative interface specifically designed for managing staff members.
* **Function Description:** 
  + Disable Confirmation: Provide a confirmation step to ensure that administrators intend to disable a staff member.
  + Access Revocation: Disable access for the staff member to the system or specific features.
  + Notification: Notify relevant parties about the disablement of a staff member..
* **Screen Layout:** 
  + Admin Dashboard: Navigate to a dedicated admin dashboard or control panel.
  + Staff Management Section: Locate the "Disable Staff" function within a section dedicated to managing staff members.
  + Dropdown Menu or Selector: Include a menu or selector to choose the specific staff member to be disabled.
  + Confirmation Dialog: Display a confirmation dialog with details about the disablement before finalizing the action.
  + Confirmation Message: Present a confirmation message or summary of the successfully disabled staff member..
* **Function Details:** 
  + Dropdown Menu or Selector:
* Include a dropdown menu or selector to easily choose the staff member to be disabled.
* This enhances user experience and streamlines the disabling process.
  + Confirmation Dialog:
* Implement a confirmation dialog that outlines the consequences of disabling the staff member, including the revocation of access and any associated permissions.
* Ensure the confirmation dialog asks for confirmation before proceeding.
  + Disable Confirmation:
* Require the input of the administrator's password or a secondary authentication step to confirm the disablement.
* This adds an extra layer of security to prevent accidental or unauthorized disablement.
  + Access Revocation:
* Disable access for the staff member to the system or specific features.
* Revoke any roles, permissions, or privileges associated with the staff member.
  + Notification:
* Send email notifications to the staff member about their disabled status and the reason for the action.
* Optionally, notify other administrators about the disablement.

### 3.9 Check for Invalid Content

* **Function Trigger:** 
  + Content Moderation Queue: The function is triggered when content is submitted and queued for moderation.
  + Automated Scans: Implement scheduled or real-time automated scans to detect invalid content.
  + User Reports: Triggered when users report content as potentially invalid or inappropriate.
* **Function Description:** 
  + Content Validation Algorithms: Employ algorithms to analyze text, images, and multimedia content for potential invalidity or inappropriateness.
  + User Reporting System: Allow users to report content they find suspicious or inappropriate.
  + Moderation Queue: Queue flagged content for manual review by moderators.
  + Notification System: Notify administrators or moderators of flagged content for immediate attention.
* **Screen Layout:** 
  + Moderation Dashboard: Admin or moderator dashboard with a dedicated section for content moderation.
  + Content Queue: Display a list of flagged content items awaiting manual review.
  + Filter Options: Include filters for different types of content (text, images, videos) and severity levels.
  + Detail Preview: Provide a preview or summary of flagged content, including user details and submission time.
  + Decision Interface: A user-friendly interface for moderators to make decisions (approve, reject, or escalate) for each flagged content.
* **Function Details:** 
  + Automated Scans:
* Implement automated content validation algorithms to assess content for potential invalidity, spam, or inappropriate material.
* Utilize machine learning models for continuous improvement in detecting evolving content types.
  + User Reporting System:
* Provide users with a straightforward mechanism to report content, including an option to attach comments or explanations for their reports.
  + Moderation Queue:
* Queue flagged content items in a moderation queue for manual review.
* Prioritize the queue based on severity or user-reported content.
  + Notification System:
* Notify administrators or moderators through the admin interface or email about newly flagged content requiring manual review.
  + Content Queue:
* Display a list of flagged content items with relevant details such as content type, user details, and submission time.
* Enable sorting and filtering options to manage the queue efficiently.

### 3.10 Attach watermarks

* **Function Trigger:** 
  + User Uploads: Triggered when a user uploads an image or multimedia content.
  + Content Processing Queue: The function is initiated as part of a content processing queue after user uploads.
  + Admin or Moderator Action: Triggered manually by administrators or moderators for specific content.
* **Function Description:** 
  + Watermark Application: Apply watermarks to images or multimedia content to protect intellectual property or brand identity.
  + Customizable Watermarks: Allow users or administrators to customize watermark settings, such as opacity, position, and size.
  + Batch Processing: Implement batch processing for efficiency when applying watermarks to multiple pieces of content simultaneously.
  + Preview Option: Provide a preview option for users or administrators to see how the watermark will appear on the content.
* **Screen Layout:** 
  + Content Processing Dashboard: An admin or moderator dashboard with a dedicated section for content processing, including watermarking.
  + Content Queue: Display a queue of content items awaiting watermark application.
  + Watermark Settings: Include customizable settings for watermarks, such as opacity, position, and size.
  + Preview Section: Show a preview of how the watermark will appear on the content.
  + Status Indicators: Provide indicators for the status of watermarking (pending, processing, completed).
* **Function Details:** 
  + Watermark Application:
* Develop a mechanism to automatically apply watermarks to images or multimedia content during the processing stage.
  + Customizable Watermarks:
* Allow users or administrators to customize watermark settings, including:
  + Batch Processing:
* Implement batch processing capabilities to apply watermarks to multiple pieces of content simultaneously.
* Optimize the process for efficiency, especially when dealing with large volumes of content.
  + Preview Option:
* Provide a preview option for users or administrators to see how the watermark will appear on the content before finalizing the process.
* This helps ensure that the watermark does not obstruct crucial parts of the content.
  + Content Queue:
* Display a queue of content items awaiting watermark application, showing relevant details such as content type, user details, and submission time.
* Enable sorting and filtering options to manage the queue efficiently.
  + Watermark Settings:
* Include a section in the admin interface for configuring watermark settings, allowing administrators to define default settings or customize them for specific content.

### 3.11 Upload Content

* **Function Trigger:**
  + Creator selects the option to upload images or videos to their profile.
* **Function Description:**
  + This function allows creators to upload images and videos to their profile. It provides a user-friendly interface for selecting the content files and handles the processing and storage of the uploaded files in the creator's profile.
* **Screen Layout:**
  + The screen includes a file upload button or drag-and-drop area for creators to select their content files. It also displays a progress indicator or status message during the upload process and may show a confirmation message or preview of the uploaded content.
* **Function Details:**
  + Creators select and upload image or video files from their device's local storage. The system validates and processes the files, associating them with the creator's account. After the upload, a confirmation message or preview of the uploaded content is displayed. Creators may also add captions, descriptions, or tags to the uploaded content.

### 3.12 Edit Content Info

* **Function Trigger:**
  + Creator selects the option to edit the details and metadata of their uploaded images or videos.
* **Function Description:**
  + This function allows creators to update the details and modify the metadata of their uploaded images and videos. It provides an interface where creators can view and edit the information associated with their content, such as title, description, tags, and other relevant details. The system processes and stores the updated content information.
* **Screen Layout:**
  + The screen displays the current content information and provides editable fields for creators to modify the details. It includes options to save the changes or cancel the editing process.
* **Function Details:**
  + Creators can edit the existing details and metadata of their content, such as title, description, and tags. The system may validate the changes and provide suggestions. After editing, creators can save the changes, and the system processes and stores the updated content information. Creators may also have the option to cancel the editing process.

### 3.13 Remove Content and Notify Violating Content

* **Function Trigger:**
  + Staff identifies content that violates platform policies.
* **Function Description:**
  + This function allows staff members to remove content that violates platform policies and notify users about the violation. Staff members initiate the removal process, and the system removes the offending content from public visibility. Simultaneously, the system generates a notification to inform the content owner about the violation, providing details and guidance regarding the violation.
* **Screen Layout:**
  + The screen layout includes a content overview section, a removal confirmation, a notification form, and a section for guidance and instructions.
* **Function Details:**
  + Staff members identify and initiate the removal process for violating content. The system removes the content and generates a notification to inform the content owner about the violation. The notification includes details, references to policy violations, and guidance for rectifying the issue. The system tracks and logs the removal action and associated notifications. In severe cases, additional actions such as account suspension or termination may be considered.

### 3.14 Create Report Ticket

* **Function Trigger:**
  + Users identify inappropriate content or encounter issues and choose to report them.
* **Function Description:**
  + This function allows users to create a report ticket to notify platform administrators about inappropriate content or encountered issues. Users provide relevant details through a form or interface and submit the report ticket, initiating actions by the platform administrators to address the reported concerns.
* **Screen Layout:**
  + The screen layout includes a report form for users to enter details, category selection options, and a review and submit section.
* **Function Details:**
  + Users identify and report inappropriate content or encountered issues. They provide relevant information and submit the report ticket. The system assigns a unique identifier to the ticket. Platform administrators receive and investigate the reported concern, communicate with the user if needed, and take appropriate actions based on platform policies. The system may send notifications to the user about the progress and outcome of the investigation or resolution.

### 3.15 Reply to the Report Ticket

* **Function Trigger:**
  + Staff member selects a reported content ticket to respond to.
* **Function Description:**
  + Staff members can review the details of a reported content ticket and compose a response to address the reported issue or provide clarification.
* **Screen Layout:**
  + The screen displays ticket details, including the reported content, user information, and the reason for the report. It provides a text input field for composing the response, as well as buttons to submit or cancel the response.
* **Function Details:**
  + Staff members compose their response in the text input field, review and edit it if necessary, and submit the response. The system stores the response and associates it with the ticket and the staff member. Notifications may be triggered to inform relevant users about the response. The staff member can choose to cancel the response and return to the ticket list.

### 3.2.36 Edit Content Information

* **Function Trigger:**
  + Creator accesses their profile and selects a specific piece of content to edit.
* **Function Description:**
  + Creators have the ability to edit details and modify metadata of their uploaded images and videos. This includes updating the title, description, and any other relevant information associated with the content.
* **Screen Layout:**
  + The screen layout should present an editable form with fields for modifying content information, including title, description, and other metadata. A "Save Changes" button should be available to submit the modifications.
* **Function Details:**
  + Upon clicking the "Save Changes" button, the system validates the modifications to ensure they comply with any relevant guidelines or restrictions.
  + If the validation is successful, the system updates the content information in the database, making the changes reflected in the creator's profile.

### 3.2.37 Delete Content

* **Function Trigger:**
  + Creator selects a specific piece of content from their profile and initiates the deletion process.
* **Function Description:**
  + Creators can remove unwanted content from their profile. Deleting content ensures it is no longer accessible to users on the platform.
* **Screen Layout:**
  + The screen layout should confirm the deletion action, providing a warning message to prevent accidental deletions. It should include a "Delete" button to confirm the removal.
* **Function Details:**
  + Upon clicking the "Delete" button, the system prompts the creator for confirmation.
  + If confirmed, the system removes the content from the database, and it becomes inaccessible on the platform.

### 3.2.38 Toggle Content Payment

* **Function Trigger:**
  + Creator accesses their profile and selects a specific piece of content to manage payment options.
* **Function Description:**
  + Creators have the ability to enable or disable payment options for their content. Contents with payment enabled are categorized as "premium contents," indicating users need to pay to access them.
* **Screen Layout:**
  + The screen layout should include a toggle switch or checkbox to enable or disable payment for the selected content. A "Save Changes" button should be available to apply the modification.
* **Function Details:**
  + Upon clicking the "Save Changes" button, the system validates the modification.
  + If successful, the system updates the payment status of the content in the database, affecting its accessibility on the platform.

### 3.2.39 Toggle Content Privacy

* **Function Trigger:**
  + Creator accesses their profile and selects a specific piece of content to manage privacy settings.
* **Function Description:**
  + Creators can control whether their images and videos are public or private. Private content may only be visible to specific users or followers.
* **Screen Layout:**
  + The screen layout should include a toggle switch or checkbox to set the content as public or private. A "Save Changes" button should be available to apply the modification.
* **Function Details:**
  + Upon clicking the "Save Changes" button, the system validates the modification.
  + If successful, the system updates the privacy status of the content in the database, affecting its visibility on the platform.

## 4. Non-Functional Requirements

### 4.1 External Interfaces

*[This section provides information to ensure that the system will communicate properly with users and with external hardware or software/system elements.]*

### 4.2 Quality Attributes

*[List all the required system characteristics (quality attributes) specification. Some of the possible attributes are provided with the guide/descriptions are mentioned here]*

#### 4.2.1 Usability

● Ease of use: The application is intuitive and easy for users to navigate and interact with, minimizing the need for extensive user training.

● Learnability: Users can quickly learn how to use the app even without previous experience due to its simple design and clear navigation.

● Efficiency: The application must allow users to create tickets, minimize the number of steps needed to complete actions such as hiring IT Support, and track ticket status and ticket information.

● Consistency: Your app's design elements, terminology, and user flows should be consistent across different parts and platforms, reducing confusion and improving user familiarity.

● Error prevention and recovery: Applications must guide users to prevent errors through clear instructions and design choices. In case of errors, users will receive helpful error messages and can recover easily.

#### 4.2.2 Portability

#### ● The web applications should run well in modern browsers:

#### o Chrome version 58.0 and higher

#### o Firefox version 54.0 and higher

#### o Edge version 16.0 and higher

#### 4.2.3 Security

#### ● All input data are validated before saving to the database.

#### ● The application must implement secure user authentication mechanisms, such as JWT, to ensure that only authorized users can access their accounts.

#### ● Each role of the user has specific permission to interact with the system.