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Description automatically generated

**Artworks Sharing Platform**

**Final Project Report**

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3.Non-Functional Requirement

# **I.** Introduction

## **1. Purpose**

ArkWorks is a sharing platform designed to facilitate collaboration and knowledge exchange among individuals or groups with common interests. The purpose of ArkWorks is to provide a centralized space where users can share resources, ideas, and experiences related to their specific fields or projects. ArkWorks aims to foster a sense of community and promote cooperation by enabling users to easily connect with others who share their passions or goals. Whether it's sharing research findings, discussing best practices, or seeking advice and feedback

## **2. Scope**

Based on your description, we can create a similar sharing platform with three main user roles: Guests, Members, and Administrators, each with distinct privileges and functionalities. Here's a detailed description of each role and their functions on the platform:

* Guests:
  + Guests are individuals who visit the platform without registering an account.
  + They can browse public content on the platform but cannot create new content or participate in community activities without logging in.
  + Guests can view information about shared resources and services on the platform.
* Members:
  + Members are users who have registered an account on the platform and have full access to its features and content.
  + They can share resources, create posts, join groups or forums, and interact with other members within the community.
  + Members can also create and manage events, projects, or research groups on the platform.
* Administrators:
  + Administrators have the highest level of authority on the platform and are responsible for managing and operating the entire system.
  + They can manage user accounts, control access rights, and monitor community activities.
  + Administrators can also perform administrative tasks such as system settings, handling technical issues, and providing user support as needed.

## **3. Key Features**

1. **Resource Exchange and Collaboration:**
   1. Members can list resources for exchange or collaboration.
   2. Users explore options and submit requests for resource engagement.
2. **Transaction Management:**
   1. Facilitates negotiation, agreement finalization, and transaction tracking.
3. **Fee Management:**
   1. Handles fees for premium features, ensuring transparent and secure payments.
4. **User Account Management:**
   1. Robust account creation, customization, and access control.
5. **Dashboard and Reports:**
   1. Comprehensive dashboard for insights on platform usage, engagement, and resource utilization.

## **4. Conclusion**

ArkWorks serves as a platform for users to engage in meaningful interactions and support each other's endeavors. Additionally, ArkWorks may offer features such as forums, group messaging, and file sharing to enhance communication and collaboration among its users.

# II.Functional Requirements

# 1. Use Case Diagram

## A diagram of a diagram Description automatically generated **2. Use Case Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE 1 - LOG IN | | | |
| **Use-case No.** | UC-01 | **Use-case Version** | 1.0 |
| **Use-case Name** | Log in | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | High |
| **Actor:**  Guest  **Summary:**  Actor want to log in to the Only Art application.  **Goal:**  The feature allows users to log in to the Only Art application.  **Triggers**  The actor wants to log in to the Only Art application.  **Preconditions:**  Actor has authenticated into Only Art. application.  **Post Conditions:**  System displays **“Login successfully!”**, and redirects to the Homepage screen.  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | In home page, the actor clicks on “Sign in” button | System redirects to Login screen | | 2 | Actor input username account and input password | System informs “Log in successfully!”, redirects to Account screen. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actor taps on “LOG IN” / and taps on “Login by Google” | System redirects to Login screen of Google | | 2 | Actors choose a Google account | System informs “Login successfully!”, redirects to Account screen. |     **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 1 | Google account hasn’t been authenticated Only Art application | System redirects to Sign Up screen | | 2 | Password or Username account is incorrect when login Only Art | System redirects to Login screen again |   **Relationships:**  *N/A*  **Business Rules:**  N/A | | | |

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| USE CASE 2 - LOG OUT | | | |
| **Use-case No.** | UC-02 | **Use-case Version** | 1.0 |
| **Use-case Name** | Log out | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | Medium |
| **Actor:**  Admin,Audience,Creator  **Summary:**  Log out of my account to ensure the security of my personal information and maintain privacy.  **Goal:**  This feature allows users to log out Only Art application. .  **Triggers**  Actor wants to log out of the Only Art application.  **Preconditions:**  The user is currently logged into the application.  **Post Conditions:**  The user is logged out successfully and is redirected to the login page or a logout confirmation screen.  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actor taps on “Account” tab |  | | 2 | Actor taps on “Logout” tab. | System presents a confirmation dialog asking the user to confirm the logout | | 3a | Actor taps on “YES” button | System redirects to home screen, inform “Logout successfully!” |   **Alternative Scenario:**  *N/A*  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | *2a* | *Internet connection lost* | *System shows pop up error “Oops! You’ve lost your internet connection! Let’s go back and connect to your network again!”* | | *2a1* | *Actor taps on “Retry” button on the pop up - use case stop* | *Systems redirects to the home screen.* | | ***3b*** | *Actor taps on “NO” button* | *System returns to the previous state, and no action is taken.* |   **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |
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| USE CASE 3 – SIGN UP | | | |
| **Use-case No.** | UC-03 | **Use-case Version** | 1.0 |
| **Use-case Name** | Sign up | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | High |
| **Actor:**  Guests  **Summary:**  Admit guest register an account.  **Goal:**  The actor can register to have an account in the Only Art web application.  **Triggers**  The actor wants to register an account in the Only Art web application.  **Preconditions:**  The actor does not have an account.  **Post Conditions:**  **Success:** The system redirects to the home page.  **Failed:** The system shows an error message corresponding to error code.  **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | In home page, the actor clicks on “Sign up” button | System shows the “Register” form with these field:   * Email: text input, required, check validation email * First name: text input, required. * Last Name: text input, required. * Password: password input, required, length 6 - 8 characters. * Confirm password: password input, required, check the similarity of the password entered above. * Role: checkbox, required | | 2 | The actor inputs email, first name, last name, password, confirm password fields. |  | | 3 | The actor clicks “Create account” button. | The system will check all fields. If correct, create a new account and redirect to the home page. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The actor clicks on “Sign up with Google” | System redirects to the sign up screen of Google. | | 2 | Guest chooses a Google account to sign up. | The system creates a new account and redirects to the home page. |     **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 1 | Guests click the “Create” button without entering information. | Display an error message “Please enter your information”. | | 2 | Guests input informs with email, phone, password invalid format or username exist. | Display an error message “Please enter valid email”, “Please enter valid phone”, “Please enter valid password” or “Username already exists”. | | 3 | Google account has been invalid | Display an error message “Sign up with Google account failed”. |   **Relationships:**  *N/A*  **Business Rules:**  N/A | | | |

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| USE CASE 4 - VIEW PROFILE DETAIL | | | |
| **Use-case No.** | UC-04 | **Use-case Version** | 1.0 |
| **Use-case Name** | View profile detail | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | Medium - High |
| **Actor:**  Audience  **Summary:**  User view my profile in detail.  **Goal:**  The feature allows users to view their profile details.  **Triggers**  *The a*ctor wants to view their profile details.  **Preconditions:**   * The user must be logged into the application with valid credentials. * The user interface of the application must be accessible and operational. * The user should have an existing profile within the system.   **Post Conditions:**   * The user is presented with a detailed view of their profile information. * The profile information displayed is accurate and reflects the latest updates made by the user. * The user has the option to edit or update their profile information if desired. * Any changes made to the profile information are saved and reflected in the system. * The user can easily navigate back to other sections or features within the application after viewing their profile.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actors click on the login icon |  | | 2 | Actors navigates to the “Profile” | System redirects to user's profile details, including but not limited to:   * Personal information (name, contact details). * Account information (username, email). * Profile picture.   Additional relevant details (e.g., bio, preferences, etc.). |   **Alternative Scenario:**  *N/A*  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 1 | Network Connection Issues | The application displays an error message “Please retry your connection”, notifying the user about the connection problem. |   **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |

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| USE CASE 5 – UPDATE PROFILE | | | |
| **Use-case No.** | UC-05 | **Use-case Version** | 1.0 |
| **Use-case Name** | Update profile | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | Medium-High |
| **Actor:**  Audience  **Summary:**  User update my profile information to ensure that my account details remain accurate and reflect any changes in my personal or contact information.  **Goal:**  The feature allows users to easily modify and update their profile details..  **Triggers**  Actor decides to edit and update their profile information.  **Preconditions:**   * The user must be logged into the application with valid credentials. * The user interface of the application must be accessible and operational. * The user should have an existing profile within the system.   **Post Conditions:**   * The user's profile information is successfully updated. * The changes made by the user are saved and reflected in the system. * The updated profile details are accurately displayed when the user views their profile.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actors click on the login icon | System displays an message “Update more information in your profile” indicating the specific issue with the user's input. | | 2 | Actors click the "X" button to turn off the message |  | | 2 | Actors navigates to the “Profile” | System displays the current profile information with the option to edit. | | 3 | Actors makes desired changes, such as updating contact details or modifying their bio. |  | | 4 | Actors click on “Save” | System saves the changes and updates the user’s profile information in the system. |   **Alternative Scenario**  *N/A*  **Exceptions:**  *N/A*  **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |

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| USE CASE 6 – SEARCH ARTWORKS | | | |
| **Use-case No.** | UC-01 | **Use-case Version** | 1.0 |
| **Use-case Name** | Search artworks | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | Medium |
| **Actor:**  Audience  **Summary:**  Search for artworks based on specific keywords and genres to discover relevant pieces that match my interests.  **Goal:**  The feature enables users to find artworks efficiently by entering keywords and selecting genres.  **Triggers**  *Actor* initiates a search for artworks.  **Preconditions:**   * The user must be logged into the application. * The application must have a database of artworks with associated keywords and genres.   **Post Conditions:**   * The search results are displayed, showing artworks that match the specified keywords and genres. * The user has the option to view detailed information about the artworks found. * The user can navigate back to the main interface or perform additional searches.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actor taps on “SEARCH” tabs |  | | 2 | Actor types keywords into Search  textbox and search | System displays a list of artworks that match the entered keywords and selected genres. |   **Alternative Scenario:**  *N/A*  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 1 | There are no artworks match with genre or keyword which actor require | System informs “Do not have suitable works. please try change your filters” |   **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |

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| USE CASE 7 – UPLOAD ARTWORKS | | | |
| **Use-case No.** | UC-07 | **Use-case Version** | 1.0 |
| **Use-case Name** | Upload artworks | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | High |
| **Actor:**  Creator  **Summary:**  Upload my artworks to the application to share my creations with the community.  **Goal:**  The feature enables actors to contribute their artworks to the application, fostering a collaborative and diverse artistic community.  **Triggers**  Actor decides to upload a new artwork.  **Preconditions:**   * The user must be logged into the application. * The application must have a functional artwork upload feature. * The artwork file format and size must adhere to the application's upload specifications.   **Post Conditions:**   * The user's artwork is successfully uploaded and stored in the application's database. * The artwork is visible to other users in the community. * The user receives confirmation of the successful upload.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actor navigates to the "Upload" section of the application. | System presents an interface for the user to upload their artwork. | | 2 | Actor selects the artwork file from their device | System validates the file format and size, ensuring it adheres to the specified requirements. | | 3 | Actor provides additional information about the artwork, such as title, description, and associated genres. |  | | 4 | Actor clicks on “Save” |  | | 5 | Actor clicks on “Upload” | System uploaded artwork is now visible to other users in the community | | 6 |  | Actor receives a confirmation message “Upload successfully!” indicating the successful upload |   **Alternative Scenario:**  *N/A*  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 1 | Network Connection Issues | The application displays an error message “Please retry your connection. Can not upload artwork now!” |   **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |

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| USE CASE 8 – UPDATE ARTWORKS | | | |
| **Use-case No.** | UC-08 | **Use-case Version** | 1.0 |
| **Use-case Name** | Update artworks | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | Medium - High |
| **Actor:**  Creator  **Summary:**  Update information related to my artworks to ensure accuracy and relevance within the application.  **Goal:**  The feature allows actors to modify details, such as title, description, and associated genres, for their uploaded artworks.  **Triggers**  The actor decides to update information about one of their artworks.  **Preconditions:**   * The user must be logged into the application. * The user must have previously uploaded artwork to the application. * The application must provide functionality for updating artwork details.   **Post Conditions:**   * The updated information about the artwork is successfully saved in the application's database. * Changes made by the user are reflected and visible to the community.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actor navigates to the "Manage Artworks" | System presents a list of artworks uploaded by the creator. | | 2 | Actor selects the artwork for which they want to update information. | System displays the current details of the selected artwork. | | 3 | Actor modifies the desired information, such as title, description, or associated genres. |  | | 4 | Actor clicks on “Save” | System will display the message "Are you sure you want to edit the work's information?" | | 5 | Actor clicks on “Yes” | System will save the updated information in the database and update artwork information in system. |   **Alternative Scenario:**  *N/A*  **Exceptions:**  *N/A*  **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |

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| USE CASE 9 – SHARE ARTWORKS | | | |
| **Use-case No.** | UC-09 | **Use-case Version** | 1.0 |
| **Use-case Name** | Share artworks | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | High |
| **Actor:**  Audience, Creator  **Summary:**  As an Audience,want share my artworks with others within and outside the application, promoting visibility and engagement.  As a Creator, want to share my artworks within the application, providing a platform for others to discover and appreciate my creative expressions.  **Goal:**  The feature allows creators to easily share their uploaded artworks, fostering visibility and engagement within the application community.  The feature allows the audience to easily share links or information about their artworks through various communication channels.  **Triggers**  The creator decides to share a specific artwork they have uploaded.  The audience decides to share one of their artworks.  **Preconditions:**   * The user must be logged into the application. * The user must have previously uploaded artworks to the application.   **Post Conditions:**   * The user successfully shares a link or information about their artwork. * The shared link directs users to view the specific artwork on the application.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The user selects the work available on the homepage that the user wants to share | System will display detailed information of the work with accompanying utility bars such as: Like, Save, Share button | | 2 | Actor clicks on “Share” | System displays options for sharing, such as generating a shareable link or sharing on social media platforms. | | 3a | Actor clicks on “Copy” generating a shareable link | System saves a shareable link in temporary memory |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 3b | Actor chooses the desired sharing option: Facebook | System generates a shareable link or opens the selected social media platform with a pre-populated message about the artwork. |   **Exceptions:**  *N/A*  **Relationships:**  *N/A*  **Business Rules:**  N/A | | | |

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| USE CASE 10 – DELETE ARTWORKS | | | |
| **Use-case No.** | UC-10 | **Use-case Version** | 1.0 |
| **Use-case Name** | Delete artworks | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | Medium - High |
| **Actor:**  Creator  **Summary:**  As a Creator, I want to remove artworks from my artwork collection I used to upload.  **Goal:**  The feature allows creators to easily delete artworks from their collection.  **Triggers**  The actor wants to remove a specific artwork from their collection.  **Preconditions:**   * The creator must be logged into the application. * The collection must not be empty.   **Post Conditions:**   * The selected artwork is successfully removed from the creator's collection.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actor navigates to the "Manage Artworks" | System presents a list of artworks uploaded by the creator. | | 2 | Actor selects the artwork for which they want to delete artworks. | System displays the current details of the selected artwork. | | 3 | Actor clicks on “Delete” | System will display the message "Are you sure you want to delete the artworks?" | | 5 | Actor clicks on “Yes” | System will save the delete artworks creator’s collection. |   **Alternative Scenario:**  *N/A*  **Exceptions:**  *N/A*  **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |

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| USE CASE 12 – PURCHASE ARTWORKS | | | |
| **Use-case No.** | UC-12 | **Use-case Version** | 1.0 |
| **Use-case Name** | Save favorite artworks | | |
| **Author** |  | | |
| **Date** | 3/05/2024 | **Priority** | Medium - High |
| **Actor:**  Audience  **Summary:**  As an Audience, purchase artworks from the platform.  **Goal:**  The feature enables audience to easily purchase artworks they admire.  **Triggers**  *The actor decides to purchase an artwork.*  **Preconditions:**   * The actor must be logged into the application. * The selected artwork must be available for purchase. * The actor's payment information must be up-to-date.   **Post Conditions:**   * The selected artwork is successfully purchased by the actor.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Actor navigates to the "Artwork Marketplace" | System presents a list of available artworks for purchase. | | 2 | Actor selects the artwork they want to purchase. | System displays the details and pricing of the selected artwork. | | 3 | Actor clicks on “Buy Now”. | System prompts the actor to confirm the purchase. | | 5 | Actor confirms the purchase. | System processes the payment securely. |   **Alternative Scenario:**  *N/A*  **Exceptions:**  *N/A*  **Relationships:**  *N/A*  **Business Rules:**  *N/A* | | | |

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| USE CASE 13 – INTERACT ARTWORKS | | | |
| **Use-case No.** | UC-03 | **Use-case Version** | 1.0 |
| **Use-case Name** | Interact with artworks | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | High |
| **Actor:**  Audience  **Summary:**  As an Audience, I want to interact with artworks by leaving comments or reactions to express my thoughts and feelings.  **Goal:**  The feature enables audience to engage with artworks and contribute to the platform's community.  **Triggers**  *The actor decides to interact with an artwork.*  **Preconditions:**   * The actor must be logged into the application. * The selected artwork must be available for viewing.   **Post Conditions:**   * The actor's interaction (comment, reaction) is successfully added to the artwork.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Audience navigates to the artwork they want to interact with. | System displays the details and image of the selected artwork. | | 2 | Audience scrolls down to the comments section or interaction options. | System presents options for leaving comments or reactions. | | 3 | Audience enters their comment or selects a reaction (e.g., like, love, wow). | System validates the input. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 2a | Audience decides not to leave a comment but instead reacts with a reaction emoji. | System displays reaction options without the comment box. |     **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 3 | Audience encounters an error while submitting the comment or reaction. | System displays an error message and prompts the audience to retry the action. |   **Relationships:**  *N/A*  **Business Rules:**  N/A | | | |

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| USE CASE 14 – ADMIN USER PROFILE | | | |
| **Use-case No.** | UC-14 | **Use-case Version** | 1.0 |
| **Use-case Name** | Ban user account | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | High |
| **Actor:**  Admin  **Summary:**  View, create, update, and delete user profiles to manage user information effectively.  **Goal:**  The feature enables the admin to perform CRUD (Create, Read, Update, Delete) operations on user profiles.  **Triggers**  *The admin needs to manage user information, including viewing, creating, updating, or deleting user profiles.*  **Preconditions:**   * The admin must be logged into the admin dashboard of the platform. * The admin must have the necessary permissions to access user profile management functionalities.   **Post Conditions:**   * User profiles are successfully viewed, created, updated, or deleted as per the admin's actions.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Admin accesses the "User Management" section in the admin dashboard. | System presents a list of user profiles registered on the platform.. | | 2 | Admin selects a specific user profile to view or manage. | System displays detailed user information, including username, email, role, and activity history. | | 3 | Admin performs CRUD operations on the user profile as needed: | * View: Admin reads the user's information. * Create: Admin adds a new user profile to the system. * Update: Admin modifies existing user profile information.   Delete: Admin removes a user profile from the system.   * System responds accordingly based on the admin's action.   . |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 3a | Admin creates a new user profile. | System prompts the admin to enter the required user details for the new profile. |     **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 3 | Admin encounters an error while performing CRUD operations on user profiles. | System displays an error message and prompts the admin to retry the action or contact technical support. |   **Relationships:**  *N/A*  **Business Rules:**  N/A | | | |

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| USE CASE 15 – BAN USER ACCOUNT | | | |
| **Use-case No.** | UC-15 | **Use-case Version** | 1.0 |
| **Use-case Name** | Ban user account | | |
| **Author** |  | | |
| **Date** | 16/01/2024 | **Priority** | High |
| **Actor:**  Admin  **Summary:**  Ban a user account to enforce platform policies and maintain a safe environment.  **Goal:**  The feature enables the admin to efficiently handle user violations and restrict access to the platform for problematic users.  **Triggers**  The admin identifies a user account engaging in prohibited activities or violating community guidelines.  **Preconditions:**   * The admin must be logged into the admin dashboard of the platform. * The user account to be banned must have engaged in prohibited activities or violated community guidelines.   **Post Conditions:**   * The user account is successfully banned, and the user loses access to the platform.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Admin accesses the "User Management" section in the admin dashboard. | System presents a list of user accounts registered on the platform. | | 2 | Admin identifies the user account to be banned based on reported violations or observed misconduct. | System displays user details and activity history. | | 3 | Admin selects the option to ban the user account. | System prompts the admin to confirm the ban action. | | 4 | Admin confirms the ban action. | System disables the user account and restricts access to the platform for the banned user. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 3a | Admin notifies the user about the ban and provides a reason for the action. | System prompts the admin to send a notification to the banned user explaining the reason for the ban. |     **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Cause** | **System Response** | | 3 | Admin encounters technical difficulties while processing the ban action. | System prompts the admin to retry the action or contact technical support. |   **Relationships:**  *N/A*  **Business Rules:**  N/A | | | |

# III.Non-Functional Requirements

* Performance:
  + The platform should load images and pages within 3 seconds on average, even during peak usage.
  + Response time for interactions such as liking, commenting, or sharing should be less than 1 second.
* Scalability:
  + The system should be able to handle a growing number of users and artworks without significant degradation in performance.
  + It should support at least a 20% increase in user base annually without the need for major infrastructure changes.
* Reliability:
  + The platform should have a system uptime of at least 99.9% to ensure users can access their artwork and the community consistently.
  + Data backups should be performed daily, with a retention period of at least 30 days to ensure data integrity and availability in case of failures.
* Security:
  + User authentication should be secure, utilizing encryption protocols such as HTTPS and secure password hashing.
  + Artwork uploads should be scanned for malware or inappropriate content to maintain a safe environment for all users.
  + User data, including personal information and artwork, should be protected against unauthorized access or disclosure.
* Compatibility:
  + The platform should be compatible with modern web browsers such as Chrome, Firefox, Safari, and Edge, ensuring a consistent user experience across different devices and operating systems.
  + Mobile responsiveness is essential, with the platform optimized for various screen sizes and orientations.
* Usability:
  + The user interface should be intuitive and easy to navigate, catering to both novice and experienced users.
  + Accessibility features should be implemented to accommodate users with disabilities, adhering to WCAG guidelines.
* Maintainability:
  + The platform should be designed with modular components and clean code practices to facilitate easy maintenance and future updates.
  + Documentation for developers and administrators should be comprehensive, covering installation, configuration, and troubleshooting procedures.
* Legal and Regulatory Compliance:
  + The platform should comply with relevant copyright laws and intellectual property regulations, ensuring that users have the necessary rights to share and distribute their artwork.
  + Privacy policies should be transparent and compliant with data protection regulations such as GDPR or CCPA, outlining how user data is collected, stored, and used.

By addressing these non-functional requirements, the artwork sharing platform can provide a reliable, secure, and user-friendly experience for its users while supporting scalability and future growth.