**Use Case Description**

# Changelog

| **Name** | **Date** | **Remark** |
| --- | --- | --- |
| Mak Jun Kit | 05/08/2024 | First use case description. |

## Use Case Descriptions

A diagram of a flowchart

Description automatically generated

| **Use Case:** | **Register** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | A new user trying to register either as an Artist/Buyer on the website. |
| Pre-condition | The user must have the name, email, mobile or profile picture ready to fill in. |
| Post-condition | The website shows the successful registered message. User is successfully stored in the database. |
| Data | **Input**: Name, Email, Profile Picture, Address, Phone, Password, Confirm Password, I’m joining as, Portfolio Link, Biography, Genres  **Output**: “Your signup request has been submitted successfully. We will review your application and contact you upon approval. Thank you for your patience!” |
| Valid Case | New user clicks on the **Sign In** button on the top-right header, then clicks the **Sign Up** button below the form. Proceeds to fill up the input data stated above in the fields, then clicks the **Submit** button. Shown the output page stated above. |
| Error Case | The specified account is already in use. Please sign in. User has already created an account with the website. |

| **Use Case:** | **Email Verification upon Sign-up** |
| --- | --- |
| Actors | Artist, Buyer, and Admin |
| Description | After registering, users wait for Admin to verify to sign in. |
| Pre-condition | All actors need to have a valid email address. |
| Post-condition | Email shows account request has been approved. |
| Data | **Input**: Email  **Output**: "Your VArtGallery buyer account request has been approved and you may now sign in to the app". |
| Valid Case | After registering, email notification will be sent to the Admin, asking for user approval. Admin will log in to the Admin portal and proceed to verify the user details, before proceeding to either accept/reject the user’s approval. If successful, the user will receive the email notification stating "Your VArtGallery buyer account request has been approved and you may now sign in to the app." Otherwise “Your VArtGallery buyer account request has been rejected”. |
| Error Case | The user provides an invalid email address, or it is a fake email. The website is unable to send notification to an invalid email address. |

| **Use Case:** | **Login** |
| --- | --- |
| Actors | Artist, Buyer |
| Description | After the email has been approved, log in. |
| Pre-condition | Users must receive email notification of approval. |
| Post-condition | User proceeds to log in to the website. |
| Data | **Input**: Email and Password  **Output:** Goes to a different homepage filled with various artist’s artworks, including a separate header depending on whether it is an Artist/Buyer account. |
| Valid Case | After the user receives the email notification stating "Your VArtGallery buyer account request has been approved and you may now sign in to the app". The user goes back to the website and clicks the **Sign In** button, fills in the **Email** and **Password**, then clicks the **Sign In** button. After signing in, it will be brought to a dedicated homepage with different headers depending on whether that account is an Artist/Buyer. A Buyer has a **Cart** button, whereas an Artist does not. |
| Error Case | “You have entered an invalid email address or password”. Users keyed in the wrong account details or did not have an account. |

A diagram of a website

Description automatically generated

| **Use Case:** | **Home Page** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | After signing in, proceed to navigate around the home page. |
| Pre-condition | Users must be signed in. |
| Post-condition | Users will be brought to the home page with either the Artist/Buyer header. |
| Data | **Input**: ID  **Output**: Home Page (Artist/Buyer header) |
| Valid Case | User scrolls the home page, looks at various featured artworks, followed by the upcoming featured exhibitions below with a button to go to the Exhibition page. The headers have a few buttons like **Gallery**, **Exhibitions**, **About Us**, and **Sign in**. |
| Error Case | The user lost internet connection or the website is down. The website will display a generic unable to connect message. |

| **Use Case:** | **Exhibitions** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | At the home page, the user either clicks on the **Exhibition** button on top or below. |
| Pre-condition | Users must be signed in. Click on the **Exhibitions** button. |
| Post-condition | Users will be brought to the Exhibition page. |
| Data | **Input**: None  **Output**: Exhibition page with start time, end time, space, image, and name. |
| Valid Case | While at the home page, the user clicks on either the **Exhibition** button on top of the header or below the home page. The user will be brought to the exhibition page showing upcoming exhibitions, status, start time, end time, and space. Users can click on those to find out more and to book a slot hosted by another company. |
| Error Case | This page is not available or the page you are requesting is no longer available. The exhibition is not working on the website because the link is outdated, or the files are missing. |

| **Use Case:** | **About Us** |
| --- | --- |
| Actors | Artist, Buyer |
| Description | User clicks the **About Us** button. |
| Pre-condition | Users must be signed in. Click on the **About Us** button. |
| Post-condition | Users will be brought to the About Us page. |
| Data | **Input**: None  **Output**: About Us page. |
| Valid Case | The user clicks on the **About Us** button. The user will be brought to the about us page showing About Us, What We Offer, and Join Us. There is also a contact us information in the footer with VArtGallery’s address, email, and phone number. |
| Error Case | The page is not available, the website is down. Due to some network issues. |

| **Use Case:** | **My Artworks** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | Users click on Menu then My Artworks. |
| Pre-condition | Users must be signed in. Clicks on **Menu** and **My Artworks** button. |
| Post-condition | Users will be brought to the My Artworks page. |
| Data | **Input**: ID, artist\_id  **Output**: Artwork name, Artist name, price, and genre. |
| Valid Case | User clicks on the **Menu**, then **My Artworks**. Brought to My Artworks page (Only an Artist account can see My Artwork button and page). The page shows Your Artwork Gallery with an **Upload Artwork** button, the artist's personal uploaded artworks, artwork name, artist name, price, and genre. Also, with the ability to toggle between pages. |
| Error Case | The page is not available, the website is down. Due to some network issues. |

| **Use Case:** | **My Profile** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | Users click on Menu then My Profile. |
| Pre-condition | Users must be signed in. Clicks on **Menu** and **My Profile** button. |
| Post-condition | Users will be brought to the My Profile page. |
| Data | **Input**: ID  **Output**: Artist name, email, phone number, description, and address. |
| Valid Case | User clicks on **Menu**, then **My Profile**. Brought to My Profile page (Both Artist and Buyer can see My Profile button and page). The page shows My Profile along with a “Welcome to your profile page” message. Followed by the user’s profile image, full name, email, phone number, description, and address that were inputted during the sign-up field. |
| Error Case | The page is not available, the website is down. Due to some network issues. Or the user has been removed by the admin. |

| **Use Case:** | **My Transactions** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | Users click on Menu then My Transactions. |
| Pre-condition | Users must be signed in. Clicks on **Menu** and **My Transactions** button. |
| Post-condition | Users will be brought to the My Transactions page. |
| Data | **Input**: ID  **Output**: Transaction ID, Date, Artwork, and Amount. |
| Valid Case | User clicks on **Menu**, then **My Transactions**. Buyer will be brought to the My Transactions page. Where the page will show past transaction history including the ID, date, artwork name, and the amount. |
| Error Case | The page is not available, the website is down. Due to some network issues. Or the user has been removed by the admin. |

A diagram of a flowchart

Description automatically generated

| **Use Case:** | **Gallery** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | Artist and Buyer both click on the Gallery button and browse the artworks. |
| Pre-condition | Users must be signed in. Click on the **Gallery** button. |
| Post-condition | Users will be brought to the Gallery page. |
| Data | **Input**: ID  **Output**: Artwork image, Artwork name, Dimension, Artist name, Amount, and Genre |
| Valid Case | The Artist or Buyer clicks on the Gallery button on the header. Brought to the Gallery page where it shows many artworks and artists below. Each artwork displays the image, artwork name, artwork size, artist name, price of the artwork, and the genre. Below the page consist of many artists' profile images and the type of genre they belong to. Artist or Buyer may also click on the artwork or artist to view more details. |
| Error Case | The page is not available, the website is down. Due to some network issues. Or the user has been removed by the admin. |

| **Use Case:** | **Filter Artworks** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | Artists and buyers can click the **Filter Artworks** button to filter based on conditions. |
| Pre-condition | Users must be signed in. Click on the **Filter Artworks** button in the Gallery page. |
| Post-condition | A filter field will be brought up and Artist and Buyer can click the filter conditions. |
| Data | **Input**: Artwork name, Artist name, Amount range, Genre.  **Output**: Artwork image, Artwork name, Dimension, Artist name, Amount, and Genre |
| Valid Case | The Artist or Buyer clicks on the **Filter Artworks** button in the Gallery page. A field pops up asking to key in artwork name, artist name, range of the amount, and genre. After which the gallery page will be filtered to whatever condition the Artist/Buyer set. |
| Error Case | The page is not available, the website is down. Due to some network issues. |

| **Use Case:** | **Upload Artwork** |
| --- | --- |
| Actors | Artist |
| Description | Artists can upload their own artworks to the website. |
| Pre-condition | Users must be signed in. Clicks on **Menu**, **My Artworks**, and **Upload Artwork**. |
| Post-condition | A field pops up and requires filling in details for uploading. |
| Data | **Input**: Artwork name, Genre, Description, Dimension, Amount, Artwork image  **Output**: Artwork name, Genre, Description, Dimension, Amount, Artwork image |
| Valid Case | The Artist clicks on Menu, My Artworks, and Upload Artwork. A field pops up and Artist keys in the artwork name, genre, description, dimension, amount, and upload the artwork image file (jpg/png). After which an email notification will be sent to the admin for verification before approving the artwork to be uploaded to the website. |
| Error Case | The file type uploaded is not allowed. The name contains invalid/disallowed words. |

| **Use Case:** | **View Artwork** |
| --- | --- |
| Actors | Artist and Buyer |
| Description | Artist and Buyer click on the artwork in the Gallery page. |
| Pre-condition | Users must be signed in. Clicks on anyartwork in the Gallery page. |
| Post-condition | Users will be brought to the specific artwork page. |
| Data | **Input**: ID  **Output**: Artwork name, Dimension, Artist name, Description, Genre, Amount. |
| Valid Case | The Artist or Buyer clicks on the artwork. Brought to the specific artwork page. Where they can view the artwork name, size, artist name, description, genre, and amount. However, depending on the role of the user, only Buyer can see and click one more additional button, “**Add to Cart**”. The artwork will also display either “**Already in Cart**”, “**Sold**”, or free where it shows nothing. |
| Error Case | The page is not available, the website is down. Due to some network issues. Or the artwork is no longer available. |

| **Use Case:** | **Add to Cart** |
| --- | --- |
| Actors | Buyer |
| Description | Buyer clicks Add to Cart and Cart button. |
| Pre-condition | Users must be signed in. Add at least one artwork to the cart and click the cart button. |
| Post-condition | Users will be brought to the cart page. |
| Data | **Input**: ID, Artwork image, Artwork name, Amount  **Output**: Artwork image, Artwork name, Amount |
| Valid Case | The Buyer clicks on the **Add to Cart** button, then **Cart** button. Brought to the Cart page where it shows the artwork image, artwork name, amount, and the action button called “**Remove**”. The Buyer may choose to remove the artwork from the cart or click on **Proceed to Checkout** button. |
| Error Case | The page is not available, the website is down. Due to some network issues. Or the artwork is no longer available. |

| **Use Case:** | **Checkout** |
| --- | --- |
| Actors | Buyer and Stripe |
| Description | Buyer checkouts and bought the artworks. Stripe validates. |
| Pre-condition | Users must be signed in. Add at least one artwork to cart and click the proceed to checkout button. |
| Post-condition | Users will be brought to the checkout page. |
| Data | **Input**: ID, Artwork image, Artwork name, Amount, Card number, CVV, Postal  **Output**: Stripe success/failure |
| Valid Case | The Buyer clicks the **Proceed to Checkout** button. Brought to the checkout page, keys in the credit card number, cvv, postal, and clicks checkout. Stripe payment gateway will validate the credit card info and either return a success or failure message, where the page will show “Payment Succeeded! Thank you for your purchase. You will now be redirected back to the Home Page in 5 seconds...” or “Your card has been declined. Payment Failed. Please try again.” |
| Error Case | The page is not available, the website is down. Due to some network issues. Or the artwork is no longer available. |

A diagram of a company

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| **Use Case:** | **Admin Login** |
| --- | --- |
| Actors | Admin |
| Description | Admin logs in using Admin portal. |
| Pre-condition | Admin must have a valid admin account and password. Clicks on log in as an admin. |
| Post-condition | Admin successful logs in. |
| Data | **Input**: ID, Password  **Output**: Admin logs in success/failure |
| Valid Case | Admin goes to the login page, clicks on **Logs in as an Admin**. Keys in id, password, and logs in. Either admin will be brought to the admin dashboard, or it will display incorrect id/password. |
| Error Case | The page is not available, the website is down. Due to some network issues. Or the account has been deleted. |

| **Use Case:** | **See all new user signs-up/Approve Account Signups** |
| --- | --- |
| Actors | Admin |
| Description | Admin clicks on either **See all new user signs-up** or **Approve Account Signups**. To approve or reject pending artists/buyers. |
| Pre-condition | Admin must login. Clicks on See all new user signs-up or Approve account signups. Either Accept or Reject. |
| Post-condition | The new registered user will be notified whether they have been approved or rejected via email. |
| Data | **Input**: ID, Email, Role, Name, Description, Portfolio, Portrait, Address, Phone  **Output**: Email, Role, Name, Description, Portfolio, Portrait, Address, Phone |
| Valid Case | The Admin clicks on the See all new user signs-up button at the dashboard. Brought to the new pending users page, where it shows the user’s email, role, name, description, portfolio, portrait, address and phone. Also, two action buttons “**Approve**”or “**Reject**”. Clicking either will send a notification to the users that they are approved or rejected, and the system will allow or disallow them to login. |
| Error Case | The page is not available, the website is down. Due to some network issues. |

| **Use Case:** | **See all pending uploaded artworks/Approve Artworks** |
| --- | --- |
| Actors | Admin |
| Description | Admin clicks on either **See all pending uploaded artworks** or **Approve Artworks.** To approve or reject pending artist artworks. |
| Pre-condition | Admin must login. Clicks on either **See all pending uploaded artworks** or **Approve Artworks.** Either Accept or Reject artwork. |
| Post-condition | The new registered user will be notified whether their artwork has been approved or rejected via email. |
| Data | **Input**: ID, Artwork name, Email, Description, Amount, Genre  **Output**: Artwork name, Artist name, Email, Description, Amount, Genre |
| Valid Case | The admin clicks on **See all pending uploaded artworks** button. Brought to the pending artwork page. Where it shows the artwork name, artist name, email, description, amount, and genre. Also, two actions buttons “**Approve**” or “**Reject**”. Clicking either will send a notification to the users that their artwork is approved or rejected, and the system will put it on the gallery page. |
| Error Case | The page is not available, the website is down. Due to some network issues. |

| **Use Case:** | **Manage Artworks** |
| --- | --- |
| Actors | Admin |
| Description | Admin clicks on **Manage Artworks.** To view or delete artist artworks. |
| Pre-condition | Admin must login. Clicks on **Manage Artworks**. Either View or Delete artwork. |
| Post-condition | Artwork can be viewed in detail or deleted. |
| Data | **Input**: ID, Artwork name, Email, Buyer email, Amount, Status  **Output**: ID, Title, Artist Email, Buyer Email, Price, Status |
| Valid Case | The admin clicks on the **Manage Artworks** button. Brought to the Manage Artworks page. The page shows the ID, title, artist email, buyer email, price, and status. Also, it has two action button’s “**View**” or “**Delete**” Where the admin can view the artwork in detail like the View Artwork function above or delete the artwork. |
| Error Case | The page is not available, the website is down. Due to some network issues. The artwork is no longer available. |

| **Use Case:** | **Manage Users** |
| --- | --- |
| Actors | Admin |
| Description | Admin clicks on **Manage Users.** To view or delete artists/buyers. |
| Pre-condition | Admin must login. Clicks on **Manage** **Users**. Either View or Delete artwork. |
| Post-condition | Users can be viewed in detail or deleted. |
| Data | **Input**: ID, Name, Email, Role  **Output**: ID, Name, Email, Role |
| Valid Case | The admin clicks on the **Manage Users** button. Brought to the Manage Users page. The page shows the ID, Name, Email, and Role. Also, two action button’s “**View**” or “**Delete**”. Where the admin can view the user in detail like the View Artist function or delete the user. |
| Error Case | The page is not available, the website is down. Due to some network issues. The user is no longer available. |

| **Use Case:** | **Manage Transactions** |
| --- | --- |
| Actors | Admin |
| Description | Admin clicks on **Manage Transactions.** To view all transactions on the website. |
| Pre-condition | Admin must login. Clicks on **Manage Transactions**. View the transaction. |
| Post-condition | Transactions can be viewed in detail. |
| Data | **Input**: Transaction ID, User ID, Date, Amount  **Output**: Transaction ID, User ID, Date, Total Amount |
| Valid Case | The admin clicks on the **Manage Transactions** button. Brought to the Manage Transactions page. The page shows the transaction ID, user ID, date, and the total amount. Also, it has one action button “**View**”. Where the admin can view the transaction in detail with all artwork name and individual price. |
| Error Case | The page is not available, the website is down. Due to some network issues. |