# **ERD Draft Documentation**

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| **Name** | **Date** | **Version** | **Remark** |
| Mak Jun Kit | 02/07/2024 | 1.0 | - Created the first draft for the Entity Relationship Diagram (ERD) design for the basic SQL. |
| Mak Jun Kit | 02/07/2024 | 1.1 | - Changed **Reader** to **Viewer**, ***ReaderID*** to ***ViewerID*.**  - Made the ***AdminID*** in the ERD to be primary key (Missed out).  - Added a new table called **Cart** and documented below.  - Modified the changelog and removed the UP number from the first column in this table. |

## **Entity Relationship Diagram Design (ERD)**

A diagram of a computer system

Description automatically generated

* Above image shows the first draft of the ERD diagram.
* Consist of 6 tables – ***Admin***, ***Viewer***, ***Artwork***, ***Artist***, ***Cart***, and ***Payment***.
* Each table has different variables and functions.
* Each table has its own primary key and some with foreign keys.

## **Viewer**

* What is the ***Viewer*** and what does it do?
* ***Viewer*** is a user that can view, like, or buy an ***Artist’s*** artwork.
* ***Viewer*** also comes with an empty wallet that has zero dollars in it.
* It first must create/sign up for an account in **Visual Art Gallery** website.
* Fill in their credentials like **First Name**, **Last Name**, **Phone Number**, **Address**, and **Email**.
* Once done, they must validate their account via their provided email address, this is to prevent bots from mass creating multiple accounts, potentially overloading the server or website, thus reducing the performance and lower user’s satisfaction.
* After validating, they now can login via the login page and view various ***Artist’s*** artworks.
* Should they want to download and use any Artist’s artwork for commercial purposes, they would need to pay using their top-up wallet.
* Once the artwork is purchased, it is stored under their ID, and they can download or share anytime they want.

## **Artist**

* What is the ***Artist*** and what does it do?
* ***Artist*** is a user that can view, like, buy an ***Artist’s*** artwork, upload or delete their own artwork.
* ***Artist*** also comes with an empty wallet that has zero dollars in it.
* It first must create/sign up for an account in **Visual Art Gallery** website.
* Fill in their credentials like **First Name**, **Last Name**, **Phone Number**, **Address**, and **Email**.
* Once done, they must validate their account via their provided email address, this is to prevent bots from mass creating multiple accounts, potentially overloading the server or website, thus reducing the performance and lower user’s satisfaction.
* After validating, they now can login via the login page and view various ***Artist’s*** artworks or start to upload their own artworks.
* Should they want to download and use any Artist’s artwork for commercial purposes, they would need to pay using their top-up wallet.
* Once the artwork is purchased, it is stored under their ID, and they can download or share anytime they want.

## **Artwork**

* What is the ***Artwork*** and what does it do?
* ***Artwork*** is a storage place where ***Artist’s*** upload and stores their artworks at.
* It is also where both ***Viewer*** and ***Artists*** ***ID*** are stored, to retrieve the correct artwork to them.
* It stores the **Date**, **Price**, **Like** **Counts**, and **View Counts** as well.

## **Cart**

* What is the ***Cart*** and what does it do?
* ***Cart*** is the shopping cart where both Viewer and Artist can add the artwork to their shopping cart.
* This shopping cart will be able to display the artwork name, and the total price.
* Should they click the checkout button in the ***Cart***, it will direct them to the ***Payment*** page with all the relevant artworks from the ***Cart*** as well.

## **Payment**

* What is the ***Payment*** and what does it do?
* ***Payment*** is the place where both ***Viewers*** and ***Artists*** purchase their artworks at.
* It is a payment/checkout portal.
* It stores the ***Date***, ***Viewer*** ***ID***, ***Artist*** ***ID***, and the ***Total*** ***Price***.

## **Admin**

* What is the ***Admin*** and what does it do?
* ***Admins*** are super users, they manage the website, validate the artwork, ***Viewers***, ***Artists***, add or delete any users or artworks that they deem unethical or harmful to others.
* Unethical or harmful meaning – disturbing, offensive, blasphemy artworks.