

CPSC 304 Project Cover Page

Milestone #: 1

Date: May 28, 2023

Group Number: 4

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

2. Project Description:

a. What is the domain of the application? Describe it.

The application will be shared and used by art galleries, which may be museums or virtual galleries, worldwide to keep track of works of art that may be transferred from location to location for specific exhibitions. This will include information about the art pieces, exhibitions, and customers as well.

b. What aspects of the domain are modeled by the database?

The database models the transfer of art pieces between locations, the ownership of the art pieces, and the relationships between artists, owners, and gallery curators. The database also helps to oversee the logistics of a gallery's exhibitions, such as tracking customers and the fares they pay based on their pricing group as well as the exhibits they attend.

3. Database specifications:

a. What functionality will the database provide?

The database is responsible for keeping track of all art pieces, including information about their title, ownership, location, artist, type, etc. It will also keep track of the histories of transactions between owners and gallery curators as well as the movement of art pieces between locations. Information about customers and the fares they paid will be recorded as well.

4. Description of the application platform: (2-3 sentences)

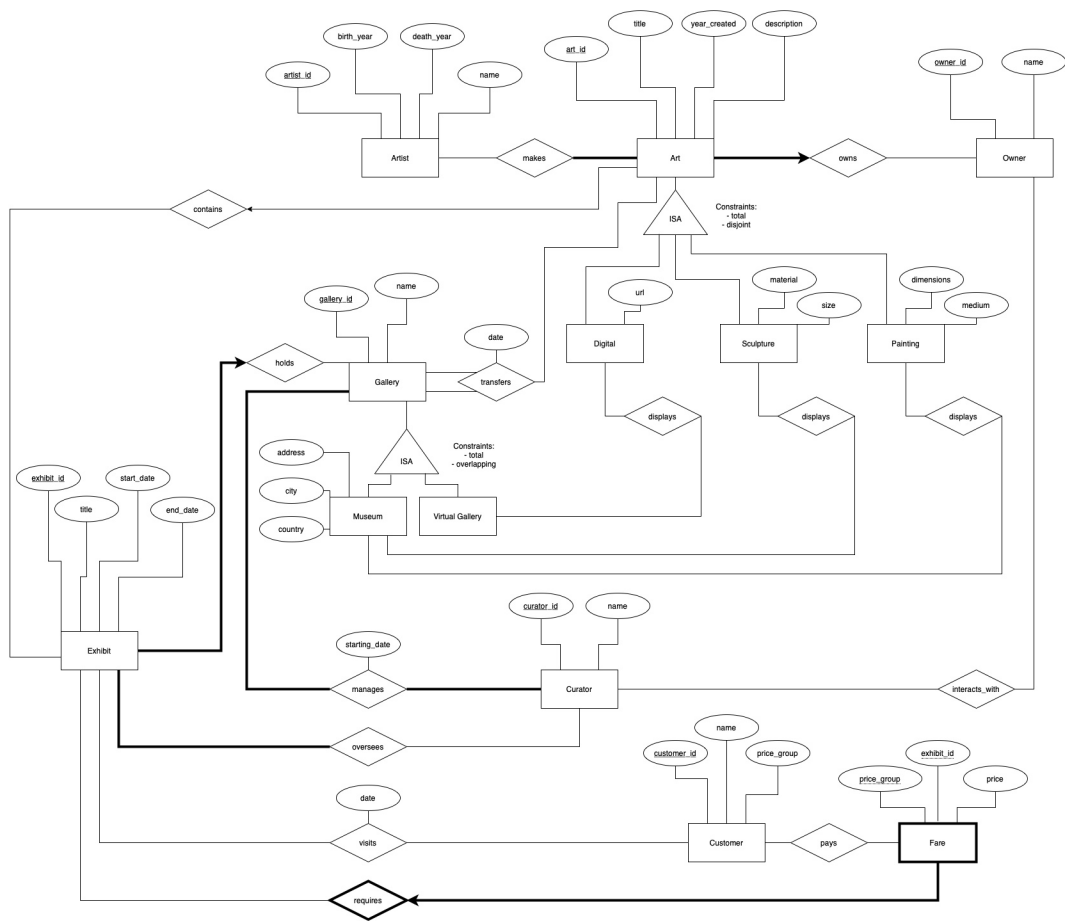
a. What platform will your project use (PHP/JDBC/etc.)?

We will use PHP as our platform.

b. What is your expected application technology stack (i.e., any other things that you're using other than whether you're using PHP or JDBC)? Note that for DBMSs, we will only provide support for using the department's installation of Oracle. You are on your own for anything else.

Our expected application technology stack will be Oracle.

5. An ER diagram for the database that your application will use. It is OK to hand-draw it but if it is illegible or messy or confusing, marks will be taken off. You can use software to draw your diagram (e.g., draw.io, GoogleDraw, Microsoft Visio, Powerpoint, Gliffy, etc.) The result should be a legible PDF or PNG document. Note that your ER diagram must use the conventions from the textbook and the lectures (Do not use crow's feet notation or notation from other textbooks).



Other comments:

- We decided that overlapping is a constraint for the ISA relationship between galleries with museums and virtual galleries. This is because it is possible that a museum contains a virtual gallery.
- The price_group attribute/weak entity set key for the entity sets “customer” and “fare” is used to distinguish between the different types of customers who may pay different amounts to enter an exhibit. For instance, there may be discounts for children, seniors, or students.
- The ternary relationship “transfers” between the entity sets art, gallery, and gallery again is meant to represent how art pieces may be transferred between galleries.
- We also assume that a work of art can be made by multiple artists.