University of British Columbia, Vancouver
Department of Computer Science

_____

CPSC 304 Project Cover Page

Milestone #: ___1_____

Date: ___July 18, 2022_____

Group Number: __26_____

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Irene Koo	30777149	y5v1r	ireneykoo226@gmail.com
Mine Sher	28495142	Q2z1b	itsminenotmine@gmail.com
Tammy Kim	57998726	r0x2b	tammykim00723@gmail.com

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. A brief project description answering these questions:
   a. What is the domain of the application? Describe it.
   Our application is an art gallery management system. Owners of art pieces can pay a sum of money to display their collections in the gallery, and if any displayed art is sold to a buyer, then the gallery also earns a commission. Visitors must pay entrance fees to view exhibitions. The gallery has rooms which showcase art pieces, and hold exhibitions which may center around a certain artist or time period.

   b. What aspects of the domain are modeled by the database?
   - Information of the buyers who purchase artwork from the gallery
   - Information regarding the owners of artworks
   - Art pieces and their corresponding information, including the artist and the room in which they are showcased in
   - Information regarding special exhibitions and their themes that are either based on a certain artist or a time period
   - Information regarding visitors to exhibitions

3. Database specifications: (3-5 sentences)
   a. What benefit does the database application provide to the company or organization?
   The database provides a useful system for art gallery managers who wish to keep a record of the art that is displayed in their gallery, along with their corresponding artist and the owner of the art piece. The database can also be used to keep track of revenue made from rentals, commissions, and exhibitions entrance fees.
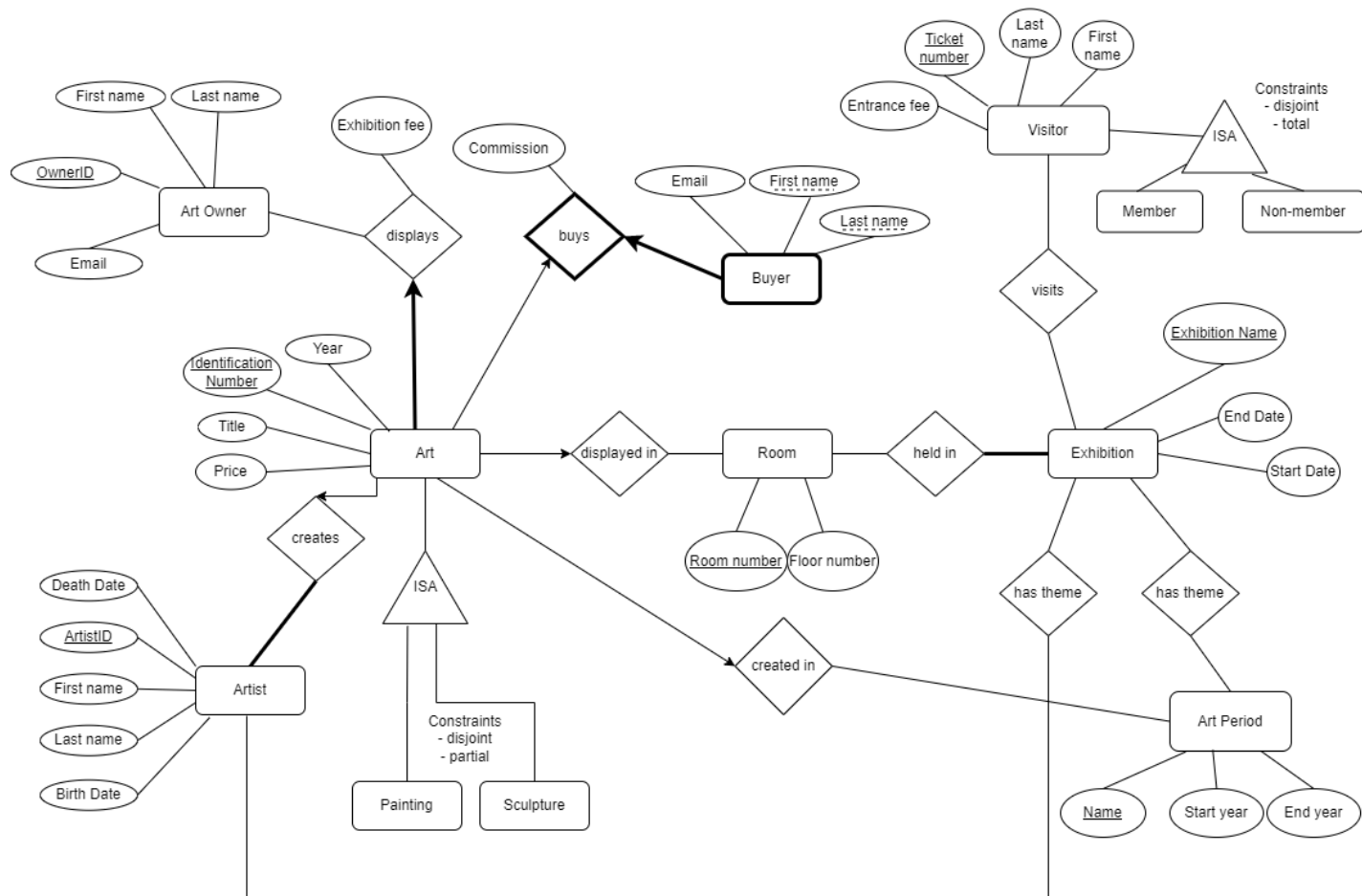
   b. What functionality will the database provide?
   Art owners can manage art pieces they have rented to the gallery, see how much money it cost them, and get updates from the gallery when the gallery finds a buyer for their art piece. Buyers can buy art pieces, and get notified by email when exhibitions are happening. The art gallery can hold exhibitions of a certain theme (a showcase of an artist's works, or a showcase of a time period) by organizing which art pieces are displayed in each room. They can also see how much money they have earned, and see if certain exhibitions helped boost profits.

4. Description of the application platform: (2-3 sentences)
   We will use the remote Oracle servers and JDBC. We do not plan on using other external tools.

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).

6. Your E/R diagram should adhere to the expectations listed above.

7. Other comments, as appropriate, to explain your project.

> In the ER diagram, we put Buyer as a weak entity to Art in a one-to-one relationship, because a buyer solely exists to make a purchase on an artwork, and it is not our interest to have a list of buyers and what they bought as part of our database. We are only interested in whether each art piece in the gallery has a buyer or not. Meanwhile, we did not identify Art Owner as a weak entity to Art because we want our database to keep track of a list of art owners so that the organization can occasionally contact them if they want any of their artworks to be displayed in the gallery. This means that Art Owner does not have to necessarily depend on Art in the art gallery to exist.