University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 111

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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

Project Description:

The domain covers all the Magic the Gathering cards, including card attributes, decks, and selling. It covers decks, card creators, sets, artists & art, listings & the platforms for selling cards, and the cards themselves.

Database Specifications:

Players of Magic the Gathering can use this database to browse for cards during deckbuilding. They can see decks that are good, deciding if they want to build that deck. If they decide to do so they can see what cards they need to buy, and see the listings available for that card alongside what platform it is listed on. People who enjoy the artwork for the cards can also look at artists and find cards also made by that artist.

Application Platform:

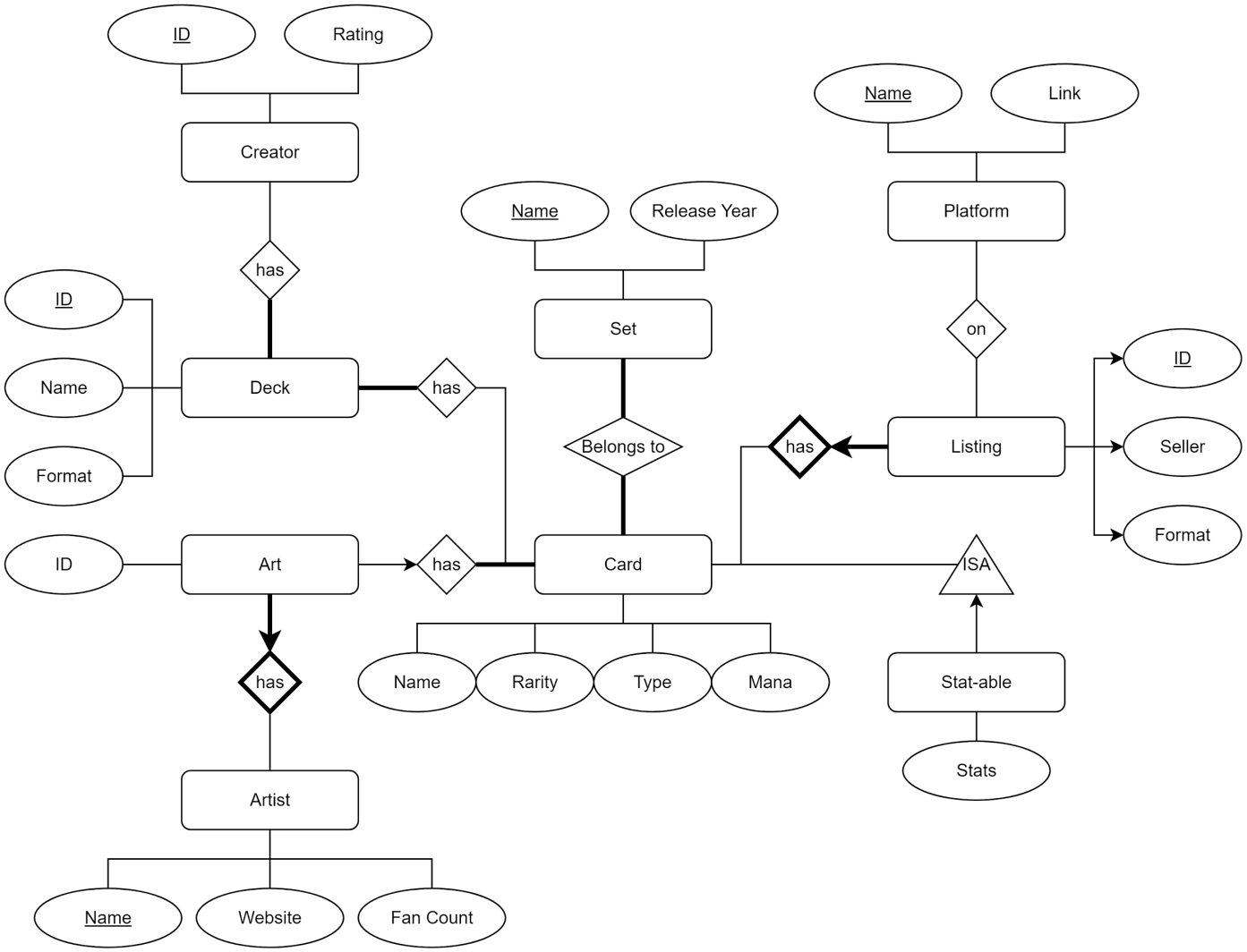
We plan to use the provided Oracle database as a relational database, this was chosen as it is a widely used platform and this will be a great learning opportunity. We plan to use Java Spring as our backend which will be connected to the Oracle database instead of php, which may limit how much our mentors could help, but our experience and comfort with this environment was a great reason for our choosing of this. We will also make use of either React or Svelte for the frontend. Utilizing these technologies will allow us to treat the backend and frontend independently, and have data be able to be transferred via RESTFUL API calls.

ER Diagram:

The following only have one attribute:

Art: only has an ID as it is the only category that we can separate art by in this dataframe. It is also a weak entity of the Artist.

Stat-able: exists mainly as an add on for specific types of cards, so only needs to add stats.


ID
Rating
Creator
has
ID
Name
Format
Deck
has
Name
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Name
Link
Platform
on
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Seller
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ID
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has
Card
ISA
has
Name
Rarity
Type
Mana
Stat-able
Stats
Artist
Name
Website
Fan Count