University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date : Feb 9, 2023

Group Number : 22

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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

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A brief project description answering these questions:

- What is the domain of the application? Describe it. The domain of an application refers to the area of knowledge your application resides in. For example, if I am making an application for a hospital, the domain would be something like healthcare/patient management/logistics (it would depend on what the application is trying to do).
- What aspects of the domain are modeled by the database? In answering this question, you will want to talk about what your project is trying to address and how it fits within the domain. It is likely that in the process of answering these questions you will bring up examples of a real-life situation that the application could be applied to.

We are building an application to record games of Texas Hold'em Poker (no limit). The database will model the game itself, and some information about the players, but not information about game strategy. Using this database, users will be able to record how previous games of poker played out, and it will have enough information to accurately recreate those games.

Some possible applications for this database include:

- Analyzing and finding trends in players' playstyles
- Training data for a poker bot
- Data for poker game theory development

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Database specifications: (3-5 sentences)

- What functionality will the database provide? I.e., what kinds of things will people using the database be able to do.

Players will be able to see their own and other players' information. Each player will be able to see their past actions, their current cards, and their available balance. The database will store the balance history associated with each match. The database will keep a record of past poker games and the related match histories that they have played for them to access.

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

- What database will your project use (department provided Oracle, MySQL, etc.)? See the “Project Platforms” section of this document for more information
- What is your expected application technology stack (i.e., what programming languages and libraries do you want to use)? See the “Project Platforms” section of this document for more information.
    - You can change/adjust your tech stack later as you learn more about how to get started for the project via latter tutorials

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Our project will use MySQL as the chosen database system, in line with the department's supported platforms (eg. Oracle server). For the application technology stack, we plan to utilize ReactJS for the front-end and PHP for the server-side logic. However, our technology stack may evolve as we progress through the project.

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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. For example, do not use crow's feet notation or notation from other textbooks).

- Please limit your diagram to a letter size page (8.5 x 11 inches). If you require additional space, talk to your project mentor beforehand as this might mean that your project is a bit more complicated than what we expect.

ER diagram specifications:

- 7 entities (not counting weak entities and ISA)
- 7 relationships
- 1 ISA relationship. Provide cardinality and participation constraint
- 1 weak entity (or an additional ISA relationship, if not applicable)
- Clearly identify all keys

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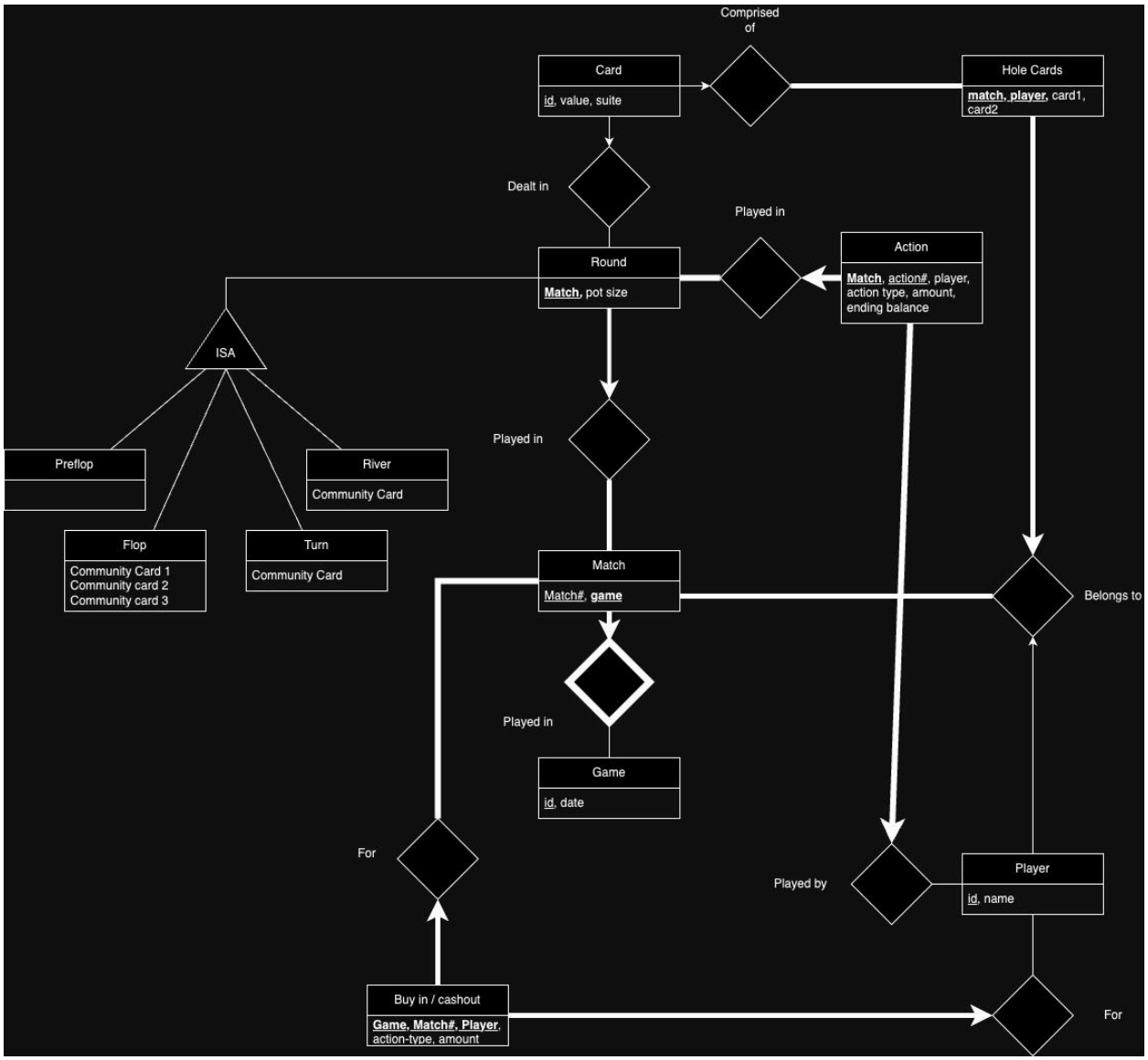

If the diagram is hard to see, you can look at the link [here]