Final Team Report

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Penn State University

December 3rd, 2023

Digital Hockey Trading Card System (DHTC)

Project Work

Team Contract

Colton worked on the team contract, making sure everything looked good with Derek to ensure they were on the same page. This is reflected exactly in the team contract.

Project Description

Derek worked on the project description, this was due to the fact that he came up with the idea of our project, running it by Colton and both agreed. This is reflected exactly in the team contract.

ER diagram

Derek created the ER Diagram, after Colton created a list of entities with attributes and relations. Colton then looked it over to check for any missed entities or relations. This is reflected in the team contract as it was left as for either of us to work on.

Database normalization

Colton went through the tables and analyzed each table to understand if there was any normalization needed. None was needed, so for each table was explained in depth to show it was not needed. Derek then looked this section over to ensure its correctness. This is reflected in the team contract as it was left as for either of us to work on.

SQL statements

Colton used the ER diagram and table list to create SQL statements to create the tables needed for the project. He also wrote SQL statements for the proposed functionality of the project. Again, Derek reviewed all statements to ensure it covered all entities and functionalities. This is reflected in the team contract as it was left as for either of us to work on.

Back-end development

Derek handled all the back-end development. This included SQL statements to create the tables, insert all starting data, including cards, packs, teams, and playsfor tables. Derek also handled most of the back end queries to insert, delete, and update data, with help from Colton in some cases. This is reflected in the team contract as it was left as for either of us to work on.

Front-end development

Colton handled all the front-end development. This included all HTML and CSS for each page seen for the application. Colton also handled creating the login form that encrypts the password before saving it into the database and checking password correctness to the encryption on login. Colton also handled any other forms can also be seen throughout other functionalities and all data presented to the user. This is reflected in the team contract as it was left as for either of us to work on.

User Manual

Derek worked on the Functionality, Motivation, and Conclusion sections of the user manual document. Colton worked on the Essential System Environments and Deploy Project Software sections. This is reflected in the team contract as it was left for both of us to work on and wrap up.

Reflection

For both stage 1 and stage 2 pieces, Derek and I started a week before the due date and were able to complete the work and submit when it was due. Both of us would meet and discuss design decisions to be had and split work evenly. For stage 3, Derek and Colton started 3 weeks early, which started with the meeting to decide what they would use to deploy their project. After such was decided, the following weeks consisted of coding the project and debugging where needed. We would meet at the library daily to work through each feature to completion, then moving on to next functionality. Overall, both parties contributed equal work in the topic they were strongest and most comfortable.