**Introduction**

This project is an application that interacts with MLab (a Mongo Database) to provide information and statistics on the game collections of three different users on BoardGameGeek.com. That data was original populated in the MLab database using a Board Game Geek (BGG) API, and then we created our own API to interact with our MLab database.

**Questions**

What information can we glean from a data set of college students board games? What years have the most up and coming games? What are the games that the students own which have the highest ratings?

**Data Set**

We used a data set of 140 games that college students own from Board Game Geek. This data set includes information for each game like the name, rating, number of players, play time, type of game, and when the game was published.

**Project Parts**

MongoDB: Used to store the data for each user. The database contains values for the Mongo ID, ID, User Name, Game Name, Game Rating, Minimum Players, Maximum Players, Minimum Playtime, Maximum Play Time, Year Published, Game Ranking, Number of Owned, and Game Type.

Flask: Used has an interface for users to gain information on the API and how to use it. As well, Flask allows users to add and delete games from the MongoDB

API: Used to access the MongoDB to allow users access to the information in the Data Base. Users Are able to get the ID, User Name, Game Name, Game Rating, Minimum Players, Maximum Players, Minimum Playtime, Maximum Play Time, Year Published, Game Ranking, Number of Owned, and Game Type.

Jupyter Notebook: Used to show analytics and graphs about the data set. It shows the different number of games each user owns and what games are the highest rated among those which are owned. As well, it is used to access the “Hot List” of the 50 up and coming games to see how many have been released from 2011 – 2021. This is also used to compare the list of users games to the Hot List games to see which users, if any, have games that are up and coming.

**Contributors**

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