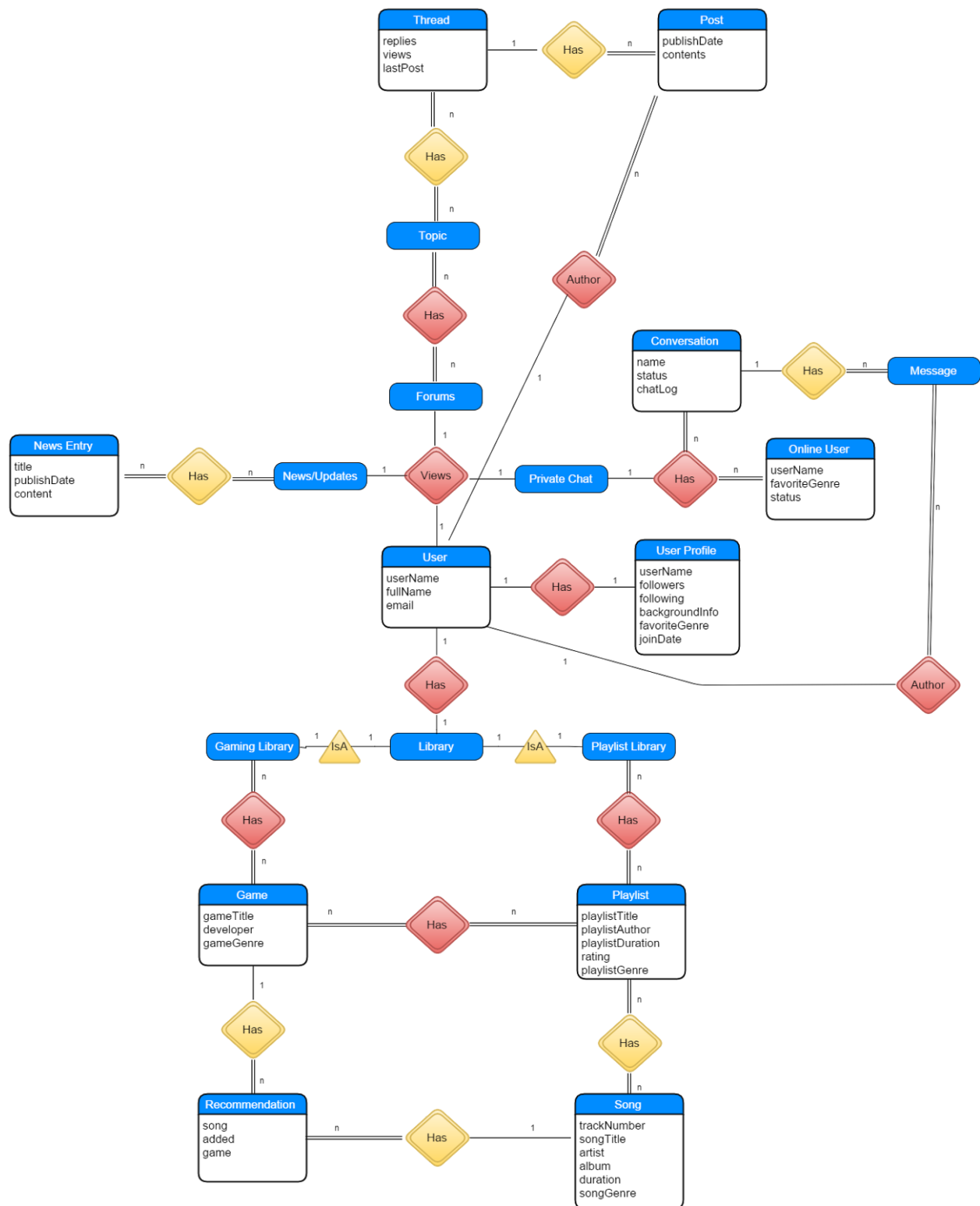


Startup Submission 03: ER Diagrams - Report

Team: BBQ Forte



ER Diagram Key:

Single Line: 1

Double Line: n

Red: reference relationship

Yellow: embedding relationship

Entity Descriptions

User: A user represents a person who uses this web application. It will have sensitive information such as username, password, full name, and email embedded in it. Moreover, it is the central entity that contains most of the useful information in this application like playlist and game library.

User Profile: The profile of a **User**, which contains basic information about the user along with a list of followers, people that the user is following, and genre preferences.

Library: Library is a general parent type of playlist and game library. Every user has a library that is different.

Playlist Library: A collection of all of the **Playlists** for a **User**.

Playlist: A unique playlist of **Song** entities.

Song: Information about a single track of music, the actual music file will **not** be stored in the database.

Gaming Library: A collection of all the **Games** for a **User**, obtained through syncing with Steam or the manual selection of games by the user.

Game: A specific game within the gaming library, which references a unique set of **Playlists**.

News/Updates: A collection of all the **News Entries**, either displayed on the main page or archived.

News Entry: A specific article that was once published on the main page.

Logan's Honors Entities:

Forums: A collection of all topics.

Topic: A collection of all threads.

Thread: A collection of all posts. Contains information on the amount of replies (i.e, posts), the view count of the thread, and the last post submitted to the thread.

Post: Content published by a user to a thread. Contains information on the author and publish date.

Matthew's Honors Entities:

Recommendation: A song associated with a game, stores whether or not the recommendation was added to the playlist by the user.

Stanley's Honors Entities:

Private Chat: A collection of all **Conversations** a user has had with various other users. Also contains a list of current **Online Users**.

Online User: A collection of all current online users that are available to chat with.

Conversation: The actual conversation between two users, which contains a log of **Messages** authored by their respective users.

Message: The content that is sent from one user to another and that is displayed to both parties within a conversation.

Entity Uses for Widgets/Pages

Main Page: This page contains the **News/Updates** as well as the **News Entry** entities. It also contains links to various parts of the website.

Saved Playlists: This page displays the user's **Playlist Library**.

Browse All Playlists: Displays **Playlist** entities, the **Playlist Library** entities for all users.

New Releases: Displays **Playlist** entities that were recently added to the database.

Most Popular: Displays **Playlist** entities that are used by the highest number of users.

Highest Rated: Displays **Playlist** entities with the highest rating.

Rising: Displays **Playlist** entities the greatest positive change in rating and/or number of users.

Playlist (widget): Each individual playlist widget displays the **Song** entities listed in the **Playlist** entity.

Profile: Displays the **User Profile** of a specific **User**.

Search: Displays the **Playlists**, **Songs**, and **Games** that match the search terms.

Logan's Honors Feature:

Forums: Displays a list of **Topics** grouped by their respective categories (BBQ Forte, Music, and Games). Simply displays the name of **Topics** aside information such as the last **Post** in the **Topics**, the total number of **Threads** in the **Topic** and the total number of **Posts** in the topic.

Topics: Displays a list of **Threads** sorted by last **Post** date, with the **Thread** with the most recent **Post** displaying first and the **Thread** of the least recent **Post** displaying last. Again, only displays the name of **Threads** aside information such as the last **Post** in the **Thread**, the total number of Replies (or **Posts**) in the **Thread** and the total number of **Views** of the thread.

Threads: Lists each **Post** in its entirety alongside the **Publish Date** of the **Post**, and the **User Name** and **Join Date** of the **User** who authored the **Post**.

New Thread: Creates a new **Thread**.

New Post: Creates a new **Post**.

Matthew's Honors Feature:

Saved Playlists: This page contains the recommendations in a small pane on the bottom, showing recommendations based on previous recommendations and other data.

Stanley's Honors Feature:

Private Chat Page: This page displays the interface for the **Private Chat** entity, which also contains **Conversation** and **Online User** entities. Within the Chatbox UI, which contains the conversation entity, there are also **Message** entities for every person the user has sent or received a message from.

Popup Chat: The popup chat also utilizes the **Conversation** and **Message** entities to display smaller chatboxes of select conversations between users.