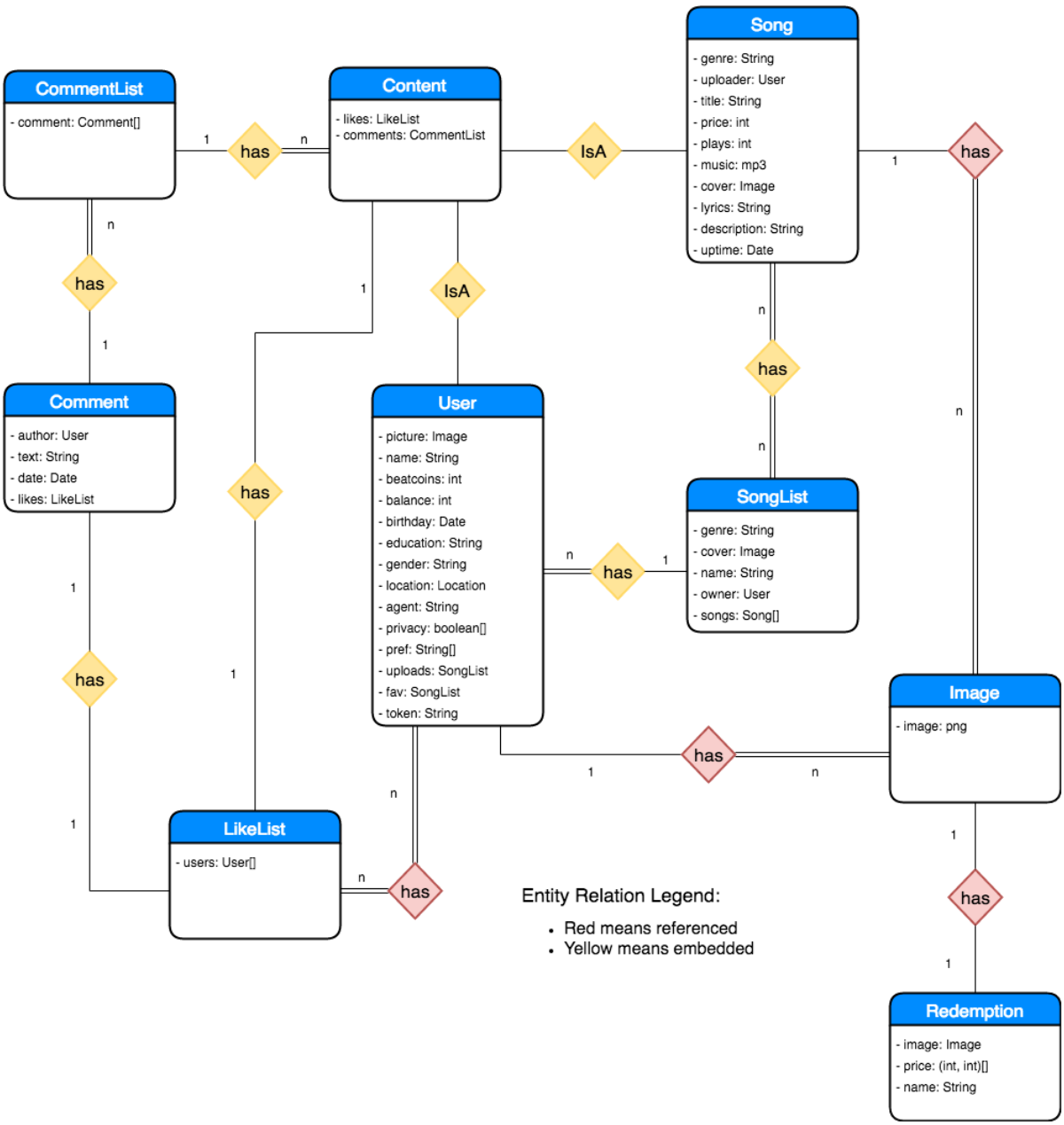
Startup Submission 04: ER Diagram
Team IceBorg



Short entity descriptions

- **CommentList**: Maintains a list of Comments that are associated with Content. For a User, it holds the list of comments that would be displayed on their public profile. For a Song, it's the list of comments that would be displayed to the right of the playlist view.
- **Content**: Includes three sub-entities -- User, Song and Comment. This entity is created to manage LikeList easily.
- **SongList**: Group of songs. It could be a general list of recommended songs, a user-created playlist or the list of songs a user uploads.
- **Comment**: Holds all the information regarding a comment such as the message itself, the User who created it, the date, as well as a like list.
- **User**: Contains all the information about the user. Much of the information is added by the user himself for his Bio or his listening preferences. It contains a song list for the user's uploads and his favorites. The User also holds information such as the account balance (money) and beatcoin balance.
- **Song**: Holds generic information about the song, like artist, title, the music, as well as website specific uses, such as plays, uploader, lyrics, description, and uptime(upload date).
- **Image**: Contains an embedded png image.
- **Redemption**: Contains a reference to the image for the specified product, as well as an embedded list of integer tuples that are the price options for the product in dollars and beatcoins, and a string that is the product name.
- **LikeList**: Maintains a list of references to Users who have liked a specific comment or content.

Short description of how each page/widget of your application uses the entities in the database

- **UserHome**: The UserHome page uses the SongLists (the recommended songs of each genre) that are owned by the "master" User which is us, and the generated User's preferred SongList according to the User's pref attribute.
- **MyProfile**: The User's own profile page uses the User to load and set his bio as well as his listening preferences, favorites, and uploads. It also uses the LikeList to allow the user to see how many people and which user liked his profile.
- **Profile**: Displays a SongList of songs the user has uploaded, as well as a CommentList to allow other users to comment on that user's page
- **ContactUs**: Doesn't use any entities besides those utilized by the navbar and footer.
- **PlaylistView**: Uses a SongList to determine which Song is being played, has been played, or has yet to be played. Using the Song that is being played, it will display the comments for that Song
- **SongTile**: Using a Song, it displays a song's name, artist, cover picture, as well as an flag for whether the song is being played currently

- **SongInfo**: Using a Song, it displays a song's description and lyrics
- **Redemption**: Displays a grid of Product Tiles, one for each Redemption object, and passes each its relevant Redemption entity.
- **Product-Tile**: Displays the passed Redemption entity's name, Image, and price.
- **Footer**: Shows the Song entities' length attribute in the progress bar, shows the songs name and its linked Image. Loads the Song's User to display their name.
- **Navbar**: Gets the User entity's beatcoin count and displays it.
- **CommentThread**: Uses a CommentList to display an order of Comments on a User's profile or on a Song's playlist view. The Comments are used to display the message, the time it was created, the number of likes, and the User who created it.