Outline: Orpheus

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Overview

Problem: There are plenty of social media platforms out there, but none that are tailored specifically to music discovery. This is exactly what "Orpheus" the web application (and maybe one-day mobile app) is set out to accomplish. What makes Orpheus different from other social media platforms is that it is structured in a way that makes sharing your music and discovering new music easy and fun.

Spotify has 217 million monthly active users, but it does not give users the ability to post the music they like and comment on that music. It also lacks the ability to send songs directly to your friends. Our platform would give users that ability. Also, finding new music on traditional streaming services can be cumbersome. In addition to showing you what your friends and favorite artists are listening to, Orpheus will feature a discover feed. This feed will populate with content that users you don't follow have posted related to the content you have shown interest in. The final feature that makes us unique is the ability to repost and react or collaborate with other users' posts.
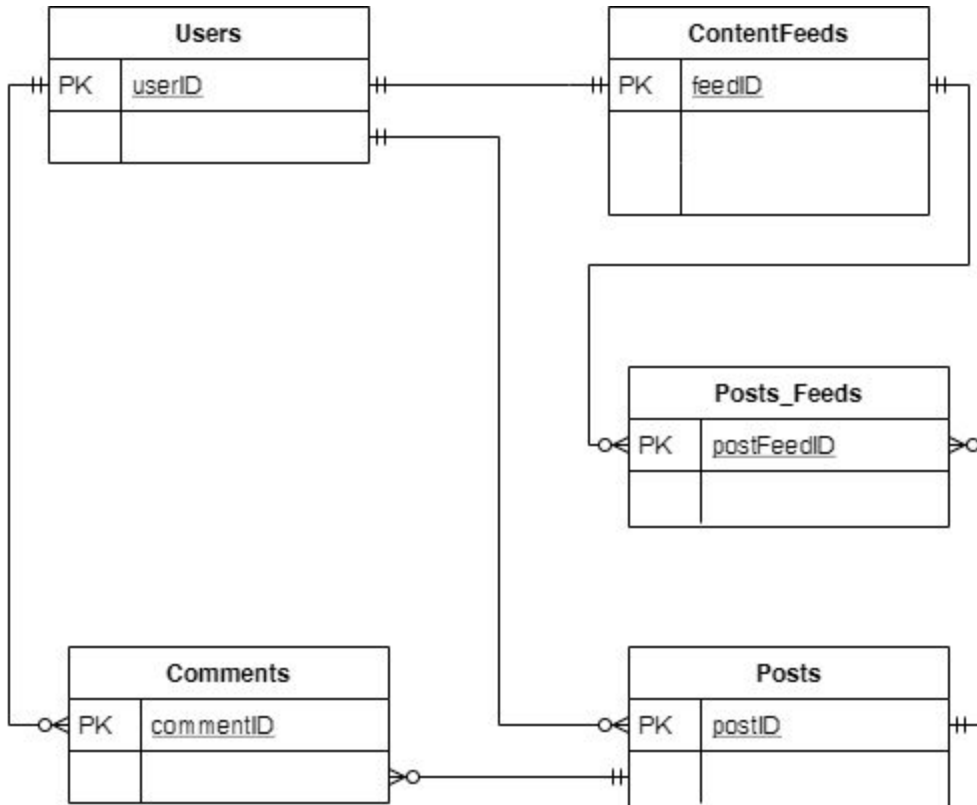
The Database for this app will store content from the users as posts and display them to the user in a "Content Feed." For each post, we will need to host the media files uploaded by the author of the post. In the database, we will store the file path to the media. In addition, we will give the user the ability to "repost" or embed the content of another post in their post. To do this we made "embedded post" an attribute of Post.

Database Outline

- **Users**: stores information relating to specific user accounts used to populate their profile page.
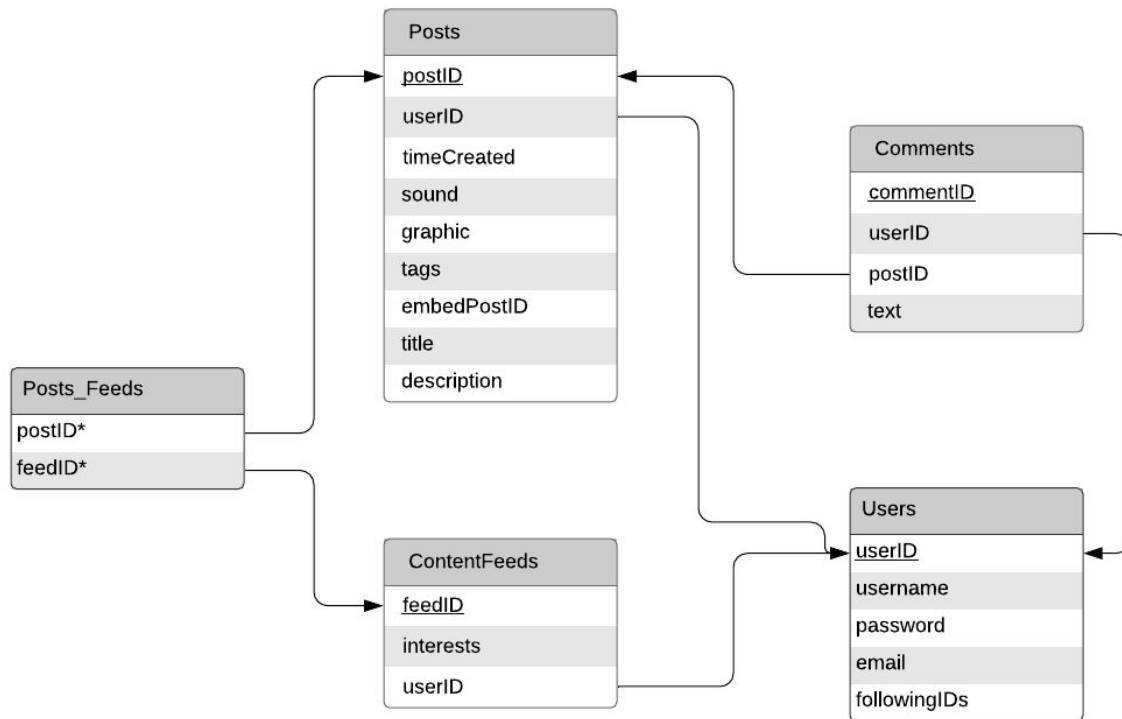   - userID: int, auto_increment, unique, not NULL, PK

- - username: varchar, unique, not NULL, max 255
  - password: varchar, not NULL, max 255
  - email: varchar, unique, not NULLRelationships:
    - 1:M with Posts, FK stored in Posts
    - 1:1 with ContentFeeds, FK stored in Users
    - M:M with Users
- **Comments**: stores comment text
  - commentID: int, auto_increment, unique, not NULL, PK
  - postID: int, unique, not NULL, FK
  - text: varchar, not Null, max 255
  - Relationships:
    - M:1 with Users, FK stored in Comment
    - M:1 with Posts, FK stored in Comment
- **ContentFeeds**: stores info about the posts displayed to each user
  - feedID: int, unique, not NULL, PK
  - userID: int, unique, not NULL, FK
  - interests: varchar, max 255
  - Relationships:
    - 1:1 with Users, FK stored in Users
    - M:M with Posts
- **Posts**: holds info for each post
  - postID: int, auto_increment, unique, not NULL, PK
  - userID: int, unique, not NULL, FK
  - timeCreated: datetime
  - sound: filepat
  - graphic: filepath
  - tags: varchar, max 255
  - embedPostID: int
  - title: varchar, max 255
  - description: text
  - Relationships:
    - M:1 with Users, FK stored in Posts
    - M:M with ContentFeeds, FK stored in Content Feeds

Entity-Relationship Diagram:

Make Users-Comments relationship optional in both directions.

Schema:

Posts
- postID
- userID
- timeCreated
- sound
- graphic
- tags
- embedPostID
- title
- description

Comments
- commentID
- userID
- postID
- text

Posts_Feeds
- postID*
- feedID*

ContentFeeds
- feedID
- interests
- userID

Users
- userID
- username
- password
- email
- followingIDs

Fixes based on Feedback from Previous Steps

TA feedback: Good job! This is a well thought out project and I am excited to see what your final looks like!

Feedback:

A. Are the queries syntactically correct? Disregard the part where input will be substituted as shown in the sample_data_manipulation_queries.sql

   As of writing this, the step4.zip did not include a file with data manipulation queries so I was unable to check.

- Are there queries providing all functionalities as required by the CS340 Project Guide ? What query is missing ? What needs to be fixed?

   I believe including the data manipulation queries file would be a solid step in the right direction.

- Do the queries cover the relationships as required by the CS340 Project Guide?

   I'm not sure at the time of writing this.

- Is the SQL file syntactically correct? This can be easily verified by importing/copy-pasting it in phpmyadmin. (Do not forget to take backup of your own database before you do this!)

   In the "Posts" insert, there's a semicolon at the end of the 8th insert (line 164/userID: 71) that could throw an error on insert. Also, on the Insert into "Posts_Feeds" (line 462) the word "Posts" is misspelled as "Post" which will cause an error. Everything else looks correct.

- Are the data types appropriate considering the description of the attribute in the database outline?

  Yes, although as a small note, you may want to add "NOT NULL" to the "user_id" attribute in your Comments CREATE query (line 28).

- Are the foreign keys correctly defined when compared to the Schema?

Yes, the foreign key definitions in the queries all match the schema.

- Are relationship tables present when compared to the ERD/Schema?

  Yes - the Posts_Feeds table presents the relationship between "Posts" and "ContentFeeds".

  One more note that you're likely aware of but just in case - right now, the linked URL doesn't render the HTML. It just displays it. My best guess is that if you're using Handlebars, you wrapped the output in three brackets instead of two. Either way, inspecting the page, it looks like the entire body is wrapped in a "pre" tag which is causing that to happen.

  Great work, you two - this is a project that is near and dear to my heart as a business partner and I attempted to create something very similar to this some years ago. We never saw it through to the end, unfortunately, but it's what led me to change careers to software development. Best of luck to you both!

- An ideal peer review Data Manipulation Queries would answer all of the following questions:

  - Are the queries syntactically correct? Disregard the part where input will be substituted as shown in the sample_data_manipulation_queries.sql

N/A - no DMQ file submitted.

  - Are there queries providing all functionalities as required by the CS340 Project Guide ? What query is missing ? What needs to be fixed?

N/A - no DMQ file submitted.

- ○ Do the queries cover the relationships as required by the CS340 Project Guide?

N/A - no DMQ file submitted.

- An ideal peer review for a DDQ file would answer all of the following questions:

- ○ Is the SQL file syntactically correct? This can be easily verified by importing/copy-pasting it in phpmyadmin. (Do not forget to take backup of your own database before you do this!)

Attempting to import the file to phpmyadmin yields a bunch of errors, I think they are pointing to the inserts.

- ○ Are the data types appropriate considering the description of the attribute in the database outline?

Yes, the data types look good.

- ○ Are the foreign keys correctly defined when compared to the Schema?

Yes, though I'm not sure why the embedPostID foreign key pointing to the postID in the same table is necessary, but I'm assuming there's a reason for it.

- ○ Are relationship tables present when compared to the ERD/Schema?

Yes, all the tables are present!
Note: Your front-end needs some work, the URL currently just points to a list of links to the handlebars code.

- Are the queries syntactically correct? Disregard the part where input will be substituted as shown in the sample_data_manipulation_queries.sql
  - ○ **Yes all the ddqueries are correct. I do not see any queries for the dmq's though.**
- Are there queries providing all functionalities as required by the CS340 Project Guide ? What query is missing ? What needs to be fixed?
  - ○ **Yes I see all CREATE queries for the tables in the draft**
  - ○ **As mentioned before I do not see the SELECT or join queries to show how it will interact in the application**
- Do the queries cover the relationships as required by the CS340 Project Guide?

- - ○ **The Foreign Keys are present but not the DMQ**
  - Is the SQL file syntactically correct? This can be easily verified by importing/copy-pasting it in phpmyadmin. (Do not forget to take backup of your own database before you do this!)
    - ○ **The syntax of the queries are correct, but it seems that that the SQL file does not seem to be an export or dump of any sort. Not sure if this is hard requirement, but I would get familiar with either the phpmyadmin or mysqldump tool.**
  - Are the data types appropriate considering the description of the attribute in the database outline?
    - ○ **Yes the data types are appropriate**
  - Are the foreign keys correctly defined when compared to the Schema?
    - ○ **Yes the foreign keys are correctly defined**
  - Are relationship tables present when compared to the ERD/Schema?
    - ○ **Yes all the tables are represented as compared to ERD/Schema**
- **Are the queries syntactically correct?** The DMQ could not be found.
- **Are there queries providing all functionalities as required by the CS340 Project Guide ? What query is missing ? What needs to be fixed?** The DMQ could not be found.
- **Do the queries cover the relationships as required by the CS340 Project Guide?** The DMQ could not be found.
  - **Is the SQL file syntactically correct? This can be easily verified by importing/copy-pasting it in phpmyadmin. (Do not forget to take backup of your own database before you do this!)** All looks good but there is an error when I try to import the data. I think phpMyAdmin only lists one error at a time so there might be more.
  - **Are the data types appropriate considering the description of the attribute in the database outline?** Yes, they seem appropriate.
  - **Are the foreign keys correctly defined when compared to the Schema?** Yes, they seem correctly defined.
  - **Are relationship tables present when compared to the ERD/Schema?** Yes, the posts/feeds M:M table is there as well as the other ones per the ER Diagram.

FIxes:

A. Added the data manipulation queries for all of the tables as we forgot to add those in on the draft.

CS 340 TEAM EVALUATION FORM
MAY 4, 2020

RATE YOUR TEAMS PERFORMANCE USING THE SCALE BELOW.

1 = Strongly Disagree   2 = Disagree   3 = Agree   4 = Strongly Agree

SCALE AND COMMENTS	RATING	ADDITIONAL COMMENTS
GROUP NUMBER		
NAME OF GROUP TEAM MEMBERS:		
HOW PREPARED WAS YOUR TEAM? Research, reading, and assignment complete	4	Always ready to go.
HOW RESPONSIVE & COMMUNICATIVE WERE YOU BOTH AS A TEAM? Responded to requests and assignment modifications needed. Initiated and responded appropriately via email, Slack etc.	4	We just text each other it's nice.
DID BOTH GROUP MEMBERS PARTICIPATE EQUALLY Contributed best academic ability	3	Seika definitely did more than me.
DID YOU BOTH FOLLOW THE INITIAL TEAM CONTRACT? Were both team members both positive and productive?	3	We have, other than meeting every Monday.

Are there any suggestions for improvement for your team and what are your goals moving forward?
(Better communication, follow the contract better, modify the initial team contract, more contribution, etc?)?

Starting assignments earlier, but honestly we are both busy and we have been doing just fine.