Artlist Backend Home Assignment

Basic Music System

Overview:

Implement a basic "Music System" service. You should implement the essential objects and functions for the service to work.

Details:

1. Database

The models must include these basic 3 main models: ***Song, Collection, Account***:

    1.1. *Song* is a table that has:

        1.1.1: Name. For example: "My Way", "Hello" etc.

        1.1.2: Rate (number of stars).

        1.1.3: Duration. For example: "4:32", "3:01" etc.

    1.2. *Collection* is a table that has:

        1.2.1. Title.

        1.2.2. Number of songs in the collection.

        1.2.3. AccountId (refference to Id in Account table).

    1.3. *Account is a table that has:*

        1.3.1. First name.

        1.3.2. Last name.

        1.3.3. IsActive.

Feel free to add additional Columns or Tables.

2. Service

    2.1. Get collections by AccountsId.

    2.2. Get all empty collections.

    2.3. Get all active users.

    2.4. Get songs by CollectionId.

    2.5. Get collections by SongId.

2.6. Get all songs by UserId (use Collection).

2.7. Get all songs and for each one - display collection Tittle.

3. Additional requirements

3.1. The service should be written using Node.js.

3.2. Database should be SQL (you can choose any DB, MySQL, PostgresSQL, etc)

3.3. Please consider performance in your suggested solution, assume many songs and many collections are already in the DB.

3.4. Please submit your work as a repository in GitHub (make sure to give proper permissions).

If you feel that some information is missing, or something is counter-intuitive, please use your creative freedom and comment on it.