Jukebox Application

step-by-step guide to completing the project:

1. Project Setup

* Creating a new Laravel project:
  + composer create-project laravel/laravel:^10.0 name-app

1. Database Setup:

* Creating migration for all required tables (Genres, Songs, Playlist, etc..).
* Run migration to create the database tables.
  + php artisan make:migration create\_name\_table

1. Models:

* Creating models for each table using Artisan (Genres, Songs, Playlist, etc..).
  + php artisan make:model Genre

1. Seeders/Factory:

* Creating seeders and Factory to populate tables with test data (Songs, Users, Playlist).
  + php artisan make:seeder GenreSeeder
  + php artisan make:factory SongFactory
* Define the factory
* Run the seeder.
  + php artisan db:seed

1. Controllers:

* Create controllers to handle applications logic (GenreController , SongController, PlaylistController, etc..).
  + php artisan make:controller GenreController

1. Views:

* Creating views using Blade templating engine.
* Organize views in appropriate folders within ‘resources/views’

1. Routing:

* Define routes in ‘routes/web.php’ to map URLs to controller actions.

1. Many-to-many:

* Relationship between two entities where an instance of one type can contain multiple instances of the other type.
  + Many-to-many relationship between genres and songs.
  + Many-to-many relationship between saved playlists and songs.
    - Create pivot tables (genre\_song and playlist\_song).
    - Define relationships in the models (Genre, Song, and Playlist).
    - Use these relationships in your controllers and views as needed.

Helpful commands to use:

* Drop all tables and re-run all of your migrations
  + php artisan migrate:fresh –seed
* Create a new middleware
  + php artisan make:middleware