



Lab 10: Music World

CS 402
Dr. Henderson
Fall 2025
Version 1

Objective

Modify the Flutter sample music player app to incorporate good UX/UI design principles.

Setup

Create a Flutter project and copy the lab 10 source code into it.

Use `flutter pub add <pkg>` to add the following packages:

```
adaptive_components
adaptive_navigation
animations
collection
cupertino_icons
desktop_window
dynamic_color
english_words
flutter_bloc
freezed_annotation
go_router
material_color_utilities
universal_platform
url_launcher
google_fonts
flutter_launcher_icons
```

Add the following asset directories in `pubspec.yaml`:

- assets/icon/
- assets/images/
- assets/images/playlists/
- assets/images/albums/
- assets/images/artists/
- assets/images/news/

Be sure you can build and run the project successfully.

Build and run the app to get familiar with its function. The data is mocked up so it doesn't really play music.

Instructions

Follow the TODOs in the source code referenced by each of the steps below:

1. In lib/src/shared/extensions.dart replace the text theme with a Google font theme that looks better
2. In lib/src/shared/apps.dart setup the light and dark theme
3. In lib/src/shared/views/outlined_card.dart set a border outline color using the theme color
4. In lib/src/shared/providers/theme.dart create page transitions
5. In lib/src/features/home/view/home_artists.dart add padding to make the UI more readable
6. Create a launcher icon using the following steps:
 - Add the flutter_launcher_icons package (use flutter pub add) and then run `flutter pub get`
 - Add your icon to the assets folder (note you can use the provided image or make your own)
 - Edit the `flutter_launcher_icons.yaml` file to reference your icon and platform
 - Run `dart run flutter_launcher_icons`
 - Rebuild and install your app

Notes

For Android, flutter_launcher_icons has a bug in the latest version. If you see a black icon, delete the file `build/android/app/src/main/res/mipmap-anydpi-v26/launcher_icon.xml`

(See <https://stackoverflow.com/questions/79077423/flutter-launcher-icons-not-updating-properly-on-android>)

Submission

Submit a zipfile containing the following:

- A recording of your finished app showing the launcher icon and each of the changes you made.
- The lib/src/shared folder