



# PMH 1 -

# TP2

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#### Task 2 -

#### Take your Flutter app from boring to beautiful

Swiftly starting things off I cloned the github repository in the third page of the codelabs guide.

```
Cloning into 'codelabs'...

remote: Enumerating objects: 30366, done.
remote: Counting objects: 100% (1649/1649), done.
remote: Compressing objects: 100% (748/748), done.
remote: Total 30366 (delta 1073), reused 1396 (delta 880), pack-reused 28717Receiving objects: 100% (30366/30366), 93.28 MiB | 11.10 MiB/s
Receiving objects: 100% (30366/30366), 97.99 MiB | 10.81 MiB/s, done.
Resolving deltas: 100% (20674/20674), done.
Updating files: 100% (19603/19603), done.
```

Once that was done I ran the app as instructed

```
PS C:\Users\PCYas\Documents\GitHub\PMH\PMH_ShiamBeehary\TP2\Task1\codelabs\boring_to_beautiful\step_01> flutter run
Connected devices:
Windows (desktop) • windows • windows-x64 • Microsoft Windows [Version 10.0.19045.3803]
Chrome (web) • chrome • web-javascript • Google Chrome 119.0.6045.200
Edge (web) • edge • web-javascript • Microsoft Edge 120.0.2210.91

[1]: Windows (windows)
[2]: Chrome (chrome)
[3]: Edge (edge)
Please choose one (or "q" to quit): 2
Resolving dependencies...
```

I ran into a little problem since my dart sdk was outdated, but this was relatively quickly patched by running the "flutter upgrade" command

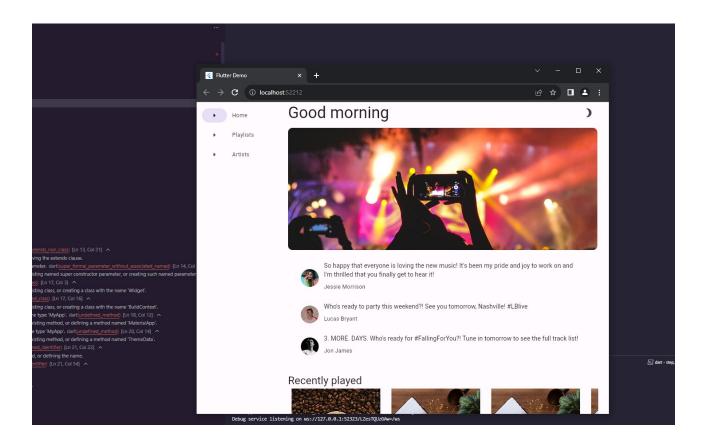
```
Resolving dependencies...
The current Dart SDK version is 3.1.4.

Because myartist requires SDK version ^3.2.0, version solving failed.
PS C:\Users\PCYas\Documents\GitHub\PMH\PMH_ShiamBeehary\TP2\Task1\codelabs\boring_to_beautiful\step_01> flutter upgrade
```





after a little bit of time the application boots up as expected and shown in the guide. I went with the chrome installation for no particular reason besides ease of deployment.







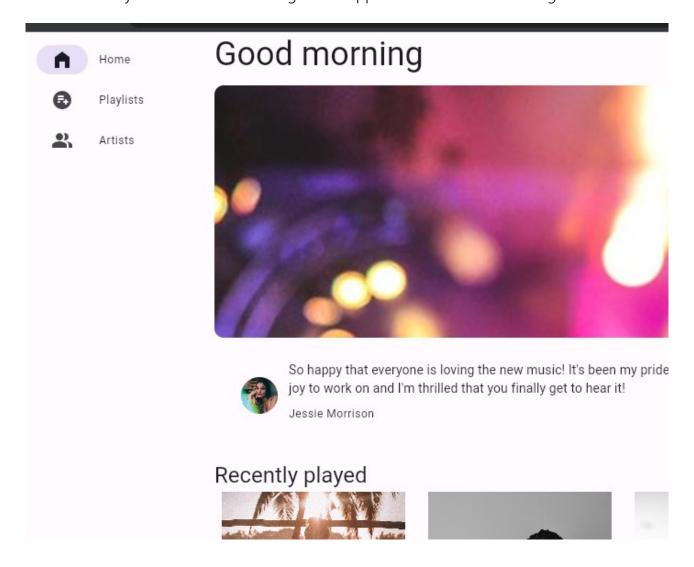
## Making modifications to the icons on the left to better illustrate navigation.

We'll be changing the lines to the appropriate vector icons to make the navigation easier:





I decided to try out different icons to give the application a more interesting look







### Changing the typography to better represent the application's feel.

Next we'll be implementing newer and better typography as recommended by the guide

instead of closing the app to do this I've opened a second powershell terminal.







```
import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';

// Add Google Fonts Package import

extension TypographyUtils on BuildContext {

ThemeData get theme => Theme.of(this);

TextTheme get textTheme => theme.textTheme; // Modify this line

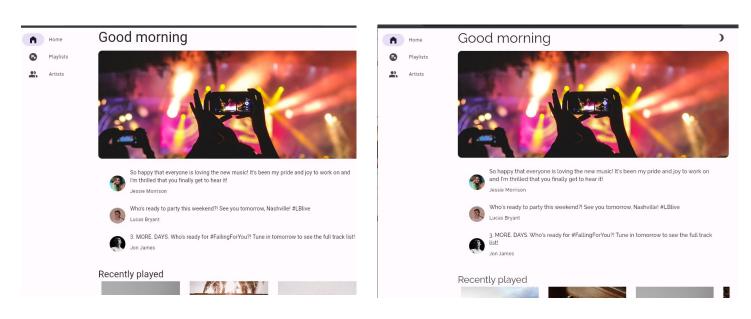
ColorScheme get colors => theme.colorScheme;

ToutStyle) get display(apge =) toutTheme display(apge) contlith();
```

TextTheme get textTheme ⇒ GoogleFonts.ralewayTextTheme(theme.textTheme);

instead of using the suggested monteserrat text theme I went with raleway, the procedure is the same since it proceeds with the same logic.

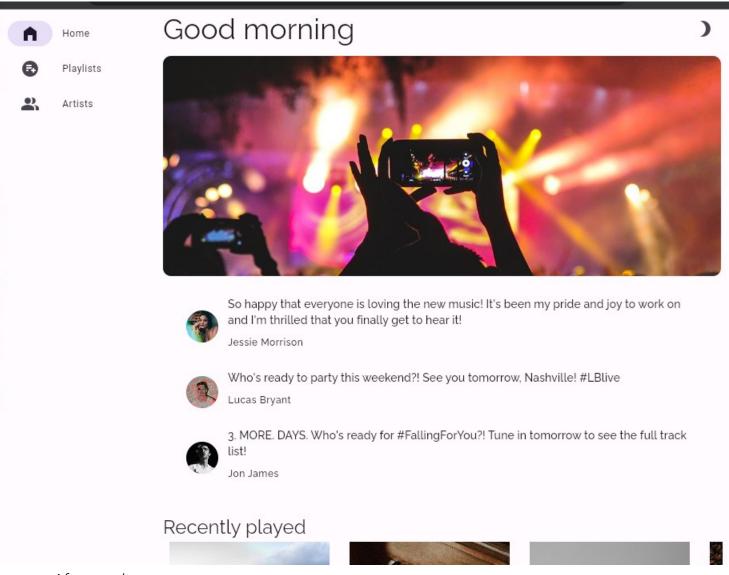
Now we can hot reload our application to see the changes;



Before & After







After result





#### Applying a theme to the application

Now we can apply a theme to the application to polish it's look and finalize the aesthetic we're going for.

The guide implementation does this neatly by having the entire theme applied by a "Theme provider". This simplifies the implementation for all components.

To add a theme we just have to create an instance of ThemeProvider and apply the theme to all of the ui

```
builder: (context, value, _) {

final theme = ThemeProvider.of(context); // Create theme instance
return MaterialApp.router(

debugShowCheckedModeBanner: false,

title: 'Flutter Demo',
theme: theme.light(settings.value.sourceColor), // Add theme

// Add dark theme
// Add theme mode
routeInformationParser: appRouter.routeInformationParser,
routeInformationProvider:

appRouter.routeInformationProvider,
routerDelegate: appRouter.routeDelegate,
builder: (context, child) {
return PlayPauseListener(child: child!);
},
```





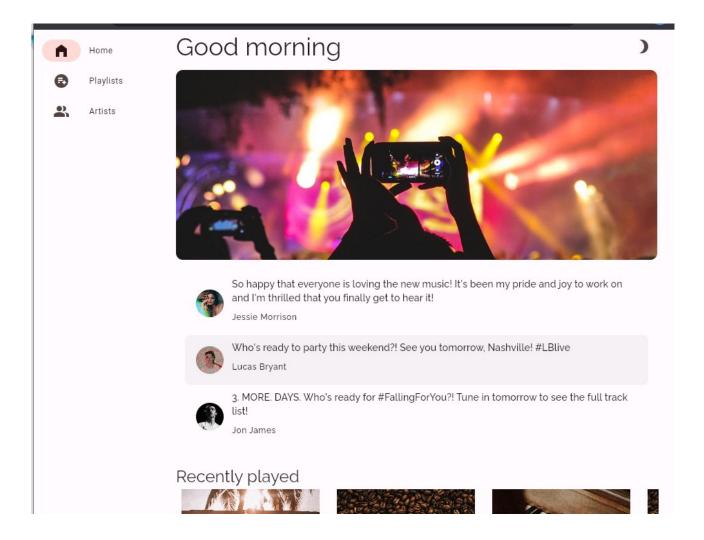
To choose the colours for the application I've gone and used the masthead banner image of the application to chose the palette on material theme builder







Here's what the application looks like after applying the primary color;







After adding colorScheme we can change outlines and secondary colours:

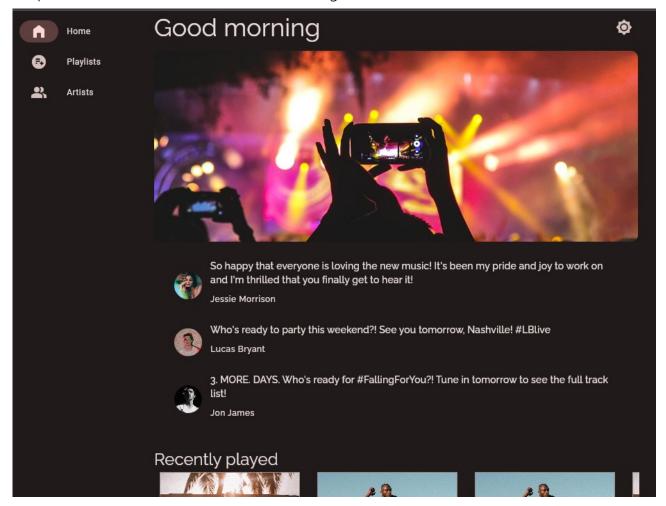
o's ready to party this as Bryant

IODE DAVO WILLIAM





#### Implemented dark mode and mode switching

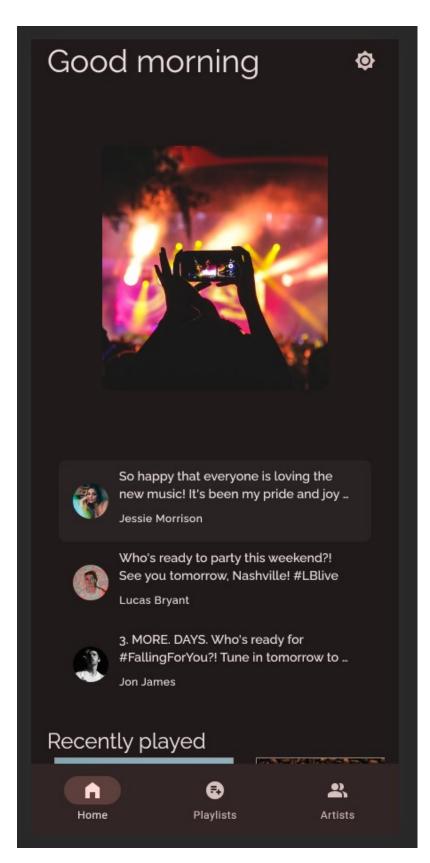






#### Adding adaptive design

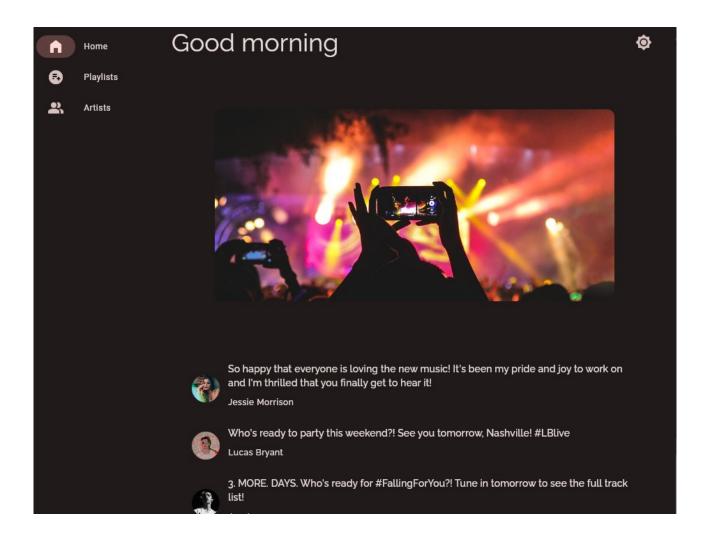
Added padding and adaptive design that changes for mobile devices







#### On Tablet:







# Adding animations and responsive feedback to app (check by running app in repository





#### Task 3

#### **Adding Flutter Authentication**

In this section I'll be making a very basic application that has an authentication system. This is a simple login form application as instructed by the task.

#### Auth0

Created and configured an account for the service

Applying dependencies and changing the main.dart file

```
import 'package:flutter/material.dart';
        Run|Debug|Profile
void main() => runApp(MyApp());
         class _MyAppState extends State<MyApp> {
  bool isBusy = false;
           late String errorMessage;
           @override
Widget build(BuildContext context) {
   return MaterialApp(
        title: 'Auth0 Demo',
        home: Scaffold(
                            opBar: AppBar(
title: const Text('Auth0 Demo'),
                        body: Center(
    child: const Text('Implement User Authentication'),
           flutter_lints 2.0.3 (3.0.1 available)
flutter_web_plugins 0.0.0 from sdk flutter
js 0.6.7 (0.7.0 available)
lints 2.1.1 (3.0.0 available)
matcher 0.12.16 (0.12.16+1 available)
material_color_utilities 0.5.0 (0.8.0 available)
meta 1.10.0 (1.11.0 available)
meta 1.10.4 (1.0.0 mailable)
    oth 1.8.3 (1.9.0 available)
lugin_platform_interface 2.1.8
       t_api 0.6.1 (0.7.0 availabl
0.3.0 (0.4.0 available)
```





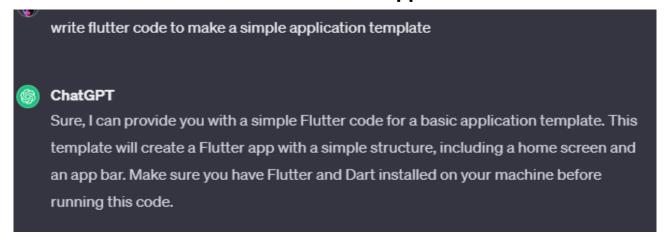
This is our final application

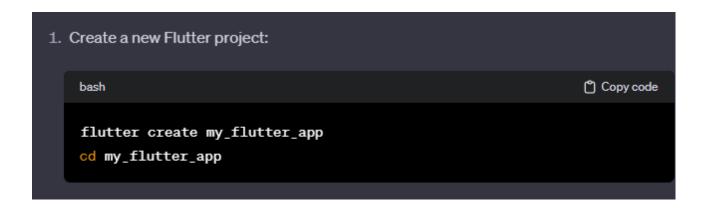
Auth0 Demo	PERIO
Login	





### Use ChatGPT to create a Flutter Mobile App







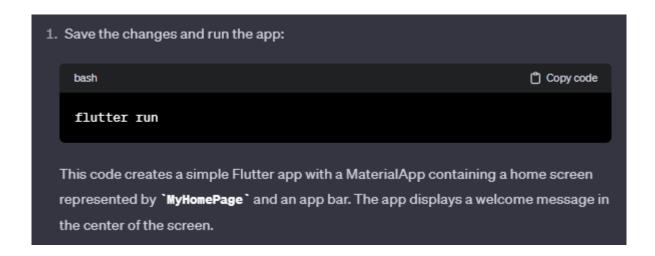


```
    Replace the contents of `lib/main.dart` with the following code:

   dart
                                                                   Copy code
   import 'package:flutter/material.dart';
   void main() {
     runApp(MyApp());
   class MyApp extends StatelessWidget {
     @override
     Widget build(BuildContext context) {
       return MaterialApp(
         title: 'My Flutter App',
         theme: ThemeData(
            primarySwatch: Colors.blue,
         Э,
         home: MyHomePage(),
       );
     3
   }
   class MyHomePage extends StatelessWidget {
     @override
     Widget build(BuildContext context) {
       return Scaffold(
         appBar: AppBar(
            title: Text('Home'),
         ),
         body: Center(
            child: Text(
              'Welcome to My Flutter App!',
              style: TextStyle(fontSize: 20),
            ),
         ),
       );
     }
   3
                                        \mathbf{+}
```







#### Running this code we get;

