Project Title: DailyHunt Roll No. 60

MAD & PWA Lab Journal

Experiment No.	03
Experiment Title.	To include icons, images, fonts in Flutter app
Roll No.	60
Name	Pranav Titambe
Class	D15A
Subject	MAD & PWA Lab
Lab Outcome	LO2: Design and Develop interactive Flutter App by using widgets, layouts, gestures and animation
Grade:	

Aim: To include icons, images, fonts in Flutter app

Theory:

Using Icons in Flutter

Icons in Flutter can be added using the built-in Material Icons or custom icon packs.

(a) Material Icons

Flutter provides a collection of built-in Material Icons, which can be used with the Icon widget.

Eg: Icon(Icons.home, size: 30, color: Colors.blue)

(b) Custom Icons

If you need icons that are not available in the Material Icons set, you can use external icon packs like:

- Font Awesome (font_awesome_flutter package)
- Custom SVG Icons (flutter_svg package)

```
Eg in pubspec.yaml file -

dependencies:
    font_awesome_flutter: ^10.5.0

In code -

import 'package:font_awesome_flutter/font_awesome_flutter.dart';

IconButton(
    icon: Falcon(FontAwesomelcons.heart, color: Colors.red),
    onPressed: () {},
)
```

Adding Images in Flutter

Images can be loaded in Flutter from different sources like assets, network, or memory.

(a) Using Network Images

Network images are loaded from an online URL. Example:

Eg: Image.network("https://example.com/sample.jpg", width: 200, height: 150)

(b) Using Asset Images

To use images from the local project folder (assets/), follow these steps:

- 1. Place the image inside the assets/images/ folder.
- 2. Declare the image in pubspec.yaml:

flutter: assets: - assets/images/sample.png

In code: Image.asset("assets/images/sample.png", width: 200, height: 150)

Adding Custom Fonts in Flutter

Custom fonts improve the visual identity of an app.

Steps to Add a Custom Font:

- 1. Download the font and place it inside the assets/fonts/ folder.
- 2. Declare the font in pubspec.yaml:

main.dart file

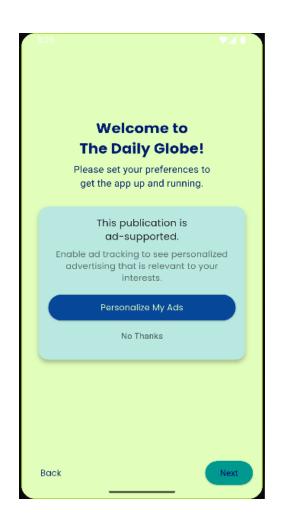
```
import 'package:flutter/material.dart';
                                                   final PageController _pageController =
import 'package:dailyhunt/login.dart';
                                                  PageController():
import
                                                    int _currentPage = 0;
'package:permission handler/permission h
andler.dart':
                                                    @override
                                                    Widget build(BuildContext context) {
void main() {
                                                     return Scaffold(
 runApp(const MyApp());
                                                      body: Column(
                                                       children: [
                                                        Expanded(
class MyApp extends StatelessWidget {
                                                          child: PageView(
 const MyApp({super.key});
                                                           controller: _pageController,
                                                           onPageChanged: (index) {
 @override
                                                            setState(() {
 Widget build(BuildContext context) {
                                                              _currentPage = index;
  return MaterialApp(
                                                            });
   title: "The Daily Globe",
                                                           },
   color: Color(0xFF001A6E),
                                                           children: const [
   theme: ThemeData(
                                                            SplashScreen(),
    primarySwatch: Colors.blue,
                                                            TrackingScreen(),
    scaffoldBackgroundColor: const
                                                            NotificationScreen(),
Color(0xFFE1FFBB),
    // textTheme: const TextTheme(
                                                         ),
    // bodyLarge: TextStyle(color:
Color(0xFFEFE9D5)).
                                                        // Page Navigation Buttons
    // bodyMedium: TextStyle(color:
                                                        Padding(
Color(0xFFEFE9D5)),
                                                          padding: const
    // titleLarge: TextStyle(color:
                                                  EdgeInsets.symmetric(horizontal: 16,
Color(0xFFEFE9D5)),
                                                  vertical: 20),
    //),
                                                          child: Row(
                                                           mainAxisAlignment:
    // textTheme: const TextTheme(
    // titleLarge:TextStyle(
                                                  MainAxisAlignment.spaceBetween,
    // color: Color(0xFFEFE9D5)
                                                           children: [
    // )
                                                            if ( currentPage > 0)
    //)
                                                             TextButton(
                                                              onPressed: () {
   home: const OnboardingFlow(),
   debugShowCheckedModeBanner: false,
                                                  _pageController.previousPage(
                                                                 duration: const
  );
                                                  Duration(milliseconds: 300),
}
                                                                 curve: Curves.easeInOut,
                                                                );
class OnboardingFlow extends
StatefulWidget {
                                                               child: const Text(
 const OnboardingFlow({super.key});
                                                                "Back",
                                                                style: TextStyle(color:
                                                  Color(0xFF001A6E),fontFamily:
 @override
 State<OnboardingFlow> createState() =>
                                                  "CustomPoppins"),
 OnboardingFlowState();
                                                            ElevatedButton(
class OnboardingFlowState extends
                                                             onPressed: () {
State<OnboardingFlow> {
                                                              if (_currentPage < 2) {
```

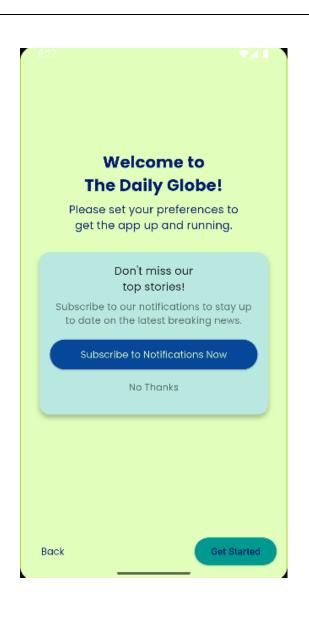
_pageController.nextPage(
duration: const	@override
Duration(milliseconds: 300),	Widget build(BuildContext context) {
curve: Curves. easeInOut,	return SafeArea(
);	child: Padding(
} else {	padding: const EdgeInsets.all(24.0),
// Navigate to login screen	child: Column(
Navigator.pushReplacement(mainAxisAlignment:
context,	MainAxisAlignment.center,
MaterialPageRoute(builder:	children: [
(context) => const Login()),	const Text(
);	'Welcome to\nThe Daily Globe!',
}	textAlign: TextAlign.center,
},	style: TextStyle(
style: ElevatedButton.styleFrom(color: Color(0xFF001A6E),
foregroundColor:	fontSize: 24,
Color(0xFF001A6E),	fontWeight: FontWeight.bold,
backgroundColor:	fontFamily: "CustomPoppins"
Color(0xFF009990),),
),),
child: Text(_currentPage == 2 ?	const SizedBox(height: 8),
"Get Started" : "Next"),	const Text(
),	'Please set your preferences
],	to\nget the app up and running.',
),	textAlign: TextAlign.center,
),	style: TextStyle(
],	color: Color(0xFF001A6E),
),	fontSize: 16,
);),
}),
}	const SizedBox(height: 24),
	Card(
class SplashScreen extends	color: const Color(0xFFB8E8E0),
StatelessWidget {	elevation: 5,
const SplashScreen({super.key});	shape: RoundedRectangleBorder(
	borderRadius:
@override	BorderRadius.circular(16),
Widget build(BuildContext context) {),
return const Center(child: Padding(
child: Text(padding: const
'THE DAILY GLOBE',	EdgeInsets.all(16.0),
style: TextStyle(child: Column(
color: Color(0xFF001A6E),	crossAxisAlignment:
fontSize: 32,	CrossAxisAlignment.stretch,
fontWeight: FontWeight.bold,	mainAxisSize:
fontFamily: "CustomPoppins"	MainAxisSize.min,
),	children: [
),	const Text(
);	'This publication is\nad-
}	supported.',
}	textAlign: TextAlign.center,
	style: TextStyle(
class TrackingScreen extends	fontSize: 16,
StatelessWidget {	fontWeight:
const TrackingScreen({super.key});	FontWeight. w500,

```
fontFamily: "CustomPoppins"
                                                    class NotificationScreen extends
                                                    StatelessWidget {
             ),
                                                     const NotificationScreen({super.key});
            ),
            const SizedBox(height: 8),
            const Text(
                                                     Future<void>
             'Enable ad tracking to see
                                                    requestNotificationPermission(BuildContext
personalized advertising that is relevant to
                                                    context) async {
vour interests.'.
                                                      var status = await
             textAlign: TextAlign.center,
                                                    Permission.notification.request();
             style: TextStyle(
              fontSize: 14,
                                                      if (status.isGranted) {
               color: Colors.black54.
                                                       // Show success message
               fontFamily: "CustomPoppins"
                                                       // ignore:
                                                    use build context synchronously
            const SizedBox(height: 16),
                                                    ScaffoldMessenger.of(context).showSnackB
            ElevatedButton(
                                                    ar(
             onPressed: () {},
                                                         const SnackBar(content:
             style:
                                                    Text('Notification permission granted!')),
ElevatedButton.styleFrom(
                                                       );
              backgroundColor: const
                                                      } else if (status.isDenied) {
Color(0xFF074799),
                                                       // Show warning message
               padding: const
                                                       // ignore:
EdgeInsets.symmetric(vertical: 12),
                                                    use_build_context_synchronously
             ),
             child: const Text(
                                                    ScaffoldMessenger.of(context).showSnackB
               'Personalize My Ads',
                                                    ar(
               style: TextStyle(
                                                         const SnackBar(content:
                color: Color(0xFFE1FFBB),
                                                    Text('Notification permission denied!')),
                fontFamily:
                                                       );
"CustomPoppins",
                                                      } else if (status.isPermanentlyDenied) {
                                                       // Open app settings if permanently
                                                    denied
                                                       // ignore:
            TextButton(
                                                    use build context synchronously
             onPressed: () {
               print('No Thanks');
                                                    ScaffoldMessenger.of(context).showSnackB
             },
                                                    ar(
             child: const Text(
                                                        const SnackBar(
               'No Thanks',
                                                          content: Text(
               style: TextStyle(color:
                                                            'Notification permission
                                                    permanently denied. Enable from settings.'),
Colors.black54),
                                                        ),
                                                       );
                                                       await openAppSettings();
                                                     @override
                                                     Widget build(BuildContext context) {
                                                      return SafeArea(
                                                       child: Padding(
                                                         padding: const EdgeInsets.all(24.0),
                                                        child: Column(
                                                          mainAxisAlignment:
```

```
MainAxisAlignment.center,
                                                                 textAlign: TextAlign.center,
      children: [
                                                                 style: TextStyle(
       const Text(
                                                                  fontSize: 14,
        'Welcome to\nThe Daily Globe!',
                                                                   color: Colors.black54,
        textAlign: TextAlign.center,
                                                                  fontFamily: "CustomPoppins"
        style: TextStyle(
          color: Color(0xFF001A6E),
                                                                ),
          fontSize: 24.
                                                                const SizedBox(height: 16),
          fontWeight: FontWeight.bold,
                                                                ElevatedButton(
          fontFamily: "CustomPoppins"
                                                                 onPressed: () =>
                                                   requestNotificationPermission(context),
       ),
                                                                 style:
       const SizedBox(height: 8),
                                                   ElevatedButton.styleFrom(
                                                                   backgroundColor: const
       const Text(
        'Please set your preferences
                                                   Color(0xFF074799),
to\nget the app up and running.',
                                                                   padding: const
        textAlign: TextAlign.center,
                                                   EdgeInsets.symmetric(vertical: 12),
        style: TextStyle(
          color: Color(0xFF001A6E),
                                                                 child: const Text(
          fontSize: 16,
                                                                   'Subscribe to Notifications
          fontFamily: "CustomPoppins"
                                                   Now',
                                                                   style: TextStyle(
                                                                    color: Color(0xFFE1FFBB),
       const SizedBox(height: 24),
                                                                   fontFamily:
       Card(
                                                   "CustomPoppins"
        color: const Color(0xFFB8E8E0),
        elevation: 5,
        shape: RoundedRectangleBorder(
          borderRadius:
                                                                TextButton(
BorderRadius.circular(16),
                                                                 onPressed: () {},
                                                                 child: const Text(
        child: Padding(
                                                                   'No Thanks',
          padding: const
                                                                   style: TextStyle(color:
EdgeInsets.all(16.0),
                                                   Colors.black54,fontFamily:
          child: Column(
                                                   "CustomPoppins"),
           crossAxisAlignment:
CrossAxisAlignment.stretch,
           mainAxisSize:
MainAxisSize.min,
           children: [
            const Text(
             "Don't miss our\ntop stories!",
             textAlign: TextAlign.center,
             style: TextStyle(
               fontSize: 16.
               fontWeight:
FontWeight. w500,
               fontFamily: "CustomPoppins"
            const SizedBox(height: 8),
            const Text(
             'Subscribe to our notifications
to stay up to date on the latest breaking
news.',
```







Login.dart file

```
import 'package:dailyhunt/languages.dart';
                                                              debugPrint("Skipped");
import 'package:flutter/material.dart';
                                                              Navigator.push(context,
import 'home.dart';
                                                    MaterialPageRoute(builder: (context) {
                                                               return Languages();
class Login extends StatefulWidget {
                                                              }));
 const Login({super.key});
                                                            },
                                                             child: Row(
 @override
                                                              mainAxisSize: MainAxisSize.min,
 State<Login> createState() =>
                                                              children: const [
_LoginState();
                                                               Text(
                                                                 "Skip",
                                                                 style: TextStyle(fontSize: 20,
class LoginState extends State<Login> {
                                                    color: Color(0xFF001A6E),fontFamily:
 final TextEditingController emailController
                                                    "CustomPoppins"),
= TextEditingController();
 final TextEditingController
                                                               SizedBox(width: 5),
passwordController =
                                                               lcon(lcons.arrow_forward, size:
TextEditingController();
                                                    30, color: Color(0xFF001A6E)),
                                                              ],
 @override
                                                             ),
 Widget build(BuildContext context) {
                                                           ),
  return Scaffold(
                                                          ),
   body: Stack(
     children: [
                                                          // Login Card
      // Background Image
                                                          Align(
      Align(
                                                            alignment: Alignment.bottomCenter,
                                                           child: Container(
       alignment: Alignment.topCenter,
       child: Container(
                                                             width: double.infinity,
                                                             padding: const EdgeInsets.all(24),
        height: 580, // Adjust the height as
needed
                                                             decoration: const BoxDecoration(
        decoration: BoxDecoration(
                                                              color: Color.fromARGB(255, 231,
          image: DecorationImage(
                                                    255, 246), // Light Teal Card
           image:
                                                              borderRadius: BorderRadius.only(
AssetImage("assets/background.png"),
                                                               topLeft: Radius.circular(30),
           fit: BoxFit.scaleDown,
                                                               topRight: Radius.circular(30),
          ),
                                                              ),
                                                             ),
        ),
                                                             child: Column(
       ),
                                                              mainAxisSize: MainAxisSize.min,
                                                              children: [
                                                               const Text(
      // Skip Button
      Positioned(
                                                                 "Welcome Back!",
       top: 40,
                                                                style: TextStyle(
       right: 20,
                                                                  fontSize: 22,
       child: TextButton(
                                                                  fontWeight: FontWeight.bold,
                                                                  color: Color(0xFF001A6E),
        onPressed: () {
```

```
fontFamily: "CustomPoppins"
                                                                style:
                                                    ElevatedButton.styleFrom(
            ),
                                                                  backgroundColor: const
           const SizedBox(height: 10),
                                                    Color(0xFF074799), // Deep Blue
           const Text(
                                                                 padding: const
            "Login to your account",
                                                    EdgeInsets.symmetric(
            style: TextStyle(fontSize: 16,
                                                                    horizontal: 40, vertical: 12),
color: Colors.black54),
                                                                  shape:
                                                    RoundedRectangleBorder(
           ),
           const SizedBox(height: 20),
                                                                   borderRadius:
                                                    BorderRadius.circular(8),
           // Email Field
                                                                  ),
           TextField(
            controller: emailController,
                                                                child: const Text(
            decoration: InputDecoration(
                                                                  "Login",
             labelText: "Email",
                                                                  style: TextStyle(
             prefixIcon: const
                                                                   fontSize: 16,
Icon(Icons.email),
                                                                   color: Color(0xFFE1FFBB), //
             border: OutlineInputBorder(
                                                    Light Greenish-Yellow
                                                                   fontFamily: "CustomPoppins"
               borderRadius:
BorderRadius.circular(10),
                                                                 ),
                                                                ),
             ),
            ),
                                                               const SizedBox(height: 5),
           const SizedBox(height: 16),
                                                               // Forgot Password & Signup
           // Password Field
                                                    Text
           TextField(
                                                               TextButton(
            controller: passwordController,
                                                                onPressed: () {
            obscureText: true,
                                                                 // TODO: Implement Forgot
            decoration: InputDecoration(
                                                    Password Logic
             labelText: "Password",
                                                                },
             prefixIcon: const
                                                                child: const Text(
Icon(Icons.lock),
                                                                  "Forgot Password?",
             border: OutlineInputBorder(
                                                                  style: TextStyle(color:
               borderRadius:
                                                    Colors. black54, fontFamily:
BorderRadius.circular(10),
                                                    "CustomPoppins"),
                                                                ),
            ),
                                                               TextButton(
           const SizedBox(height: 20),
                                                                onPressed: () {
                                                                 // TODO: Implement Signup
           // Login Button
                                                    Navigation
           ElevatedButton(
                                                                },
            onPressed: () {
                                                                child: const Text(
             // TODO: Implement login
                                                                  "Don't have an account? Sign
logic
                                                    up",
            },
                                                                  style: TextStyle(color:
```

pubspec.yaml

flutter:

fonts:

- family: CustomPoppins fonts:

- asset: assets/fonts/Poppins-

Regular.ttf

- asset: assets/fonts/Poppins-Bold.ttf uses-material-design: true

assets:

- assets/background.png

 asset: assets/Poppins-Bold.ttf weight: 700

