EXPERIMENT NO:-03

AIM: - To include icons, images, fonts in Flutter app.

Theory: -

Flutter is a versatile open-source UI framework, which allows developers to build natively compiled applications for mobile, web, and desktop platforms from a single codebase. One of the key strengths of Flutter is its flexibility in creating highly customizable UIs. This practical focuses on incorporating essential visual elements—icons, images, and custom fonts—into a Flutter application. These elements enhance the visual appeal and usability of the app, providing an engaging experience for users.

A flutter app when built has both assets (resources) and code. Assets are available and deployed during runtime. The asset is a file that can include static data, configuration files, icons, and images. The Flutter app supports many image formats, such as JPEG, WebP, PNG, GIF, animated WebP/GIF, BMP, and WBMP.

Visual elements play a significant role in app development.

- Enhanced User Experience: Images and icons make your app visually appealing and user-friendly.
- Information Conveyance: They convey information quickly and intuitively. A well-chosen icon can replace lengthy text.
- Branding: Custom icons and images reinforce your app's branding, making it memorable.

Adding Icons in Flutter

Flutter provides built-in material design icons through the Icons class. Custom icons can also be added using third-party packages such as flutter_launcher_icons and font_awesome_flutter. Icon(

Icons.home, size: 40,);

Adding Images in Flutter

Flutter supports images from three sources:

- 1. Assets (Stored locally in the project)
 - Place the image inside the assets/images folder in the project.
 Declare the image in pubspec.yaml

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

- Display the image in the app Image.asset('assets/images/sample.png');
- 2.Network (Fetched from the internet)

Displaying images from the internet or network is very simple. Flutter provides a built-in method Image.network to work with images from a URL. The Image.network method also allows you to use some optional properties, such as height, width, color, fit, and many more. Image.network('https://example.com/sample.jpg');

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3. Memory or File (Stored on the device)

Adding Custom Fonts in Flutter

By default, Flutter uses the Roboto font, but custom fonts can be added for a unique UI.

- Download the font and place it in the assets/fonts/ folder.
- Declare the font in pubspec.yaml
- Use the font in the app

```
Text(
'Custom Font Example',
style: TextStyle(fontFamily: 'CustomFont', fontSize: 24),
);
```

Code: -

login_screen.dart

```
import 'package:flutter/material.dart';
import
                                                       @override
'package:firebase auth/firebase auth.dart';
                                                       void dispose() {
import 'main_screen.dart'; // Import the
                                                        emailController.dispose();
MainScreen (not HomeScreen)
                                                        passwordController.dispose();
                                                        super.dispose();
class LoginScreen extends StatefulWidget {
                                                      }
 const LoginScreen({super.key});
                                                       /// Sign in using Firebase Authentication
 @override
                                                       Future<void> _login() async {
 State<LoginScreen> createState() =>
                                                        setState(() {
LoginScreenState();
                                                         isLoading = true;
                                                        });
class LoginScreenState extends
                                                        try {
State<LoginScreen> {
                                                         // Attempt sign in with email and password
 // Controllers for input fields
                                                         await
 final TextEditingController emailController =
                                                      auth.signInWithEmailAndPassword(
TextEditingController();
                                                          email: emailController.text.trim(),
 final TextEditingController
                                                          password: passwordController.text,
passwordController = TextEditingController();
                                                         );
                                                         // On successful login, navigate to the
 // Firebase Auth instance
 final FirebaseAuth auth =
                                                      MainScreen with BottomNavigationBar.
FirebaseAuth.instance:
                                                         Navigator.pushReplacement(
                                                          context,
 bool isLoading = false;
```

```
MaterialPageRoute(builder: (context) =>
                                                                 MaterialPageRoute(builder:
const MainScreen()), // Navigate to
                                                      (context) => const MainScreen()), // Navigate
MainScreen
                                                      to MainScreen
   );
                                                               );
  } on FirebaseAuthException catch (e) {
                                                              },
   String message = 'Login failed';
                                                              child: const Text("Skip", style:
   if (e.code == 'user-not-found') {
                                                      TextStyle(color: Colors.white, fontSize: 16)),
     message = 'No user found for that
                                                             ),
email.':
                                                           ],
   } else if (e.code == 'wrong-password') {
                                                            leading: IconButton(
                                                             icon: const lcon(lcons.arrow back,
     message = 'Incorrect password
provided.';
                                                      color: Colors.white),
                                                             onPressed: () {
   }
                                                              Navigator.pop(context);
ScaffoldMessenger.of(context).showSnackBar
                                                            },
                                                           ),
     SnackBar(content: Text(message)),
                                                          ),
                                                          body: Padding(
   );
  } catch (e) {
                                                            padding: const
                                                      EdgeInsets.symmetric(horizontal: 20),
ScaffoldMessenger.of(context).showSnackBar
                                                            child: Column(
                                                             children: [
                                                              const SizedBox(height: 30),
     const SnackBar(content: Text('An error
                                                              // Email TextField
occurred.')),
                                                              TextField(
   );
  }
                                                               controller: emailController,
                                                               style: const TextStyle(color:
  setState(() {
                                                      Colors.white),
    isLoading = false;
                                                               decoration: InputDecoration(
                                                                 labelText: "Email Address",
  });
                                                                 labelStyle: const TextStyle(color:
 }
                                                      Colors.white70),
 @override
                                                                 enabledBorder: OutlineInputBorder(
 Widget build(BuildContext context) {
                                                                  borderSide: const
  return Scaffold(
                                                      BorderSide(color: Colors.white38),
   backgroundColor: Colors.black,
                                                                  borderRadius:
   appBar: AppBar(
                                                      BorderRadius.circular(8),
     backgroundColor: Colors.black,
                                                                 ),
     title: const Text("Log In", style:
                                                                 focusedBorder: OutlineInputBorder(
TextStyle(color: Colors.white)),
                                                                  borderSide: const
     centerTitle: true.
                                                      BorderSide(color: Colors.blue),
     actions: [
                                                                  borderRadius:
      // Skip button for direct access (login
                                                      BorderRadius.circular(8),
later)
                                                                 ),
      TextButton(
                                                               ),
       onPressed: () {
                                                              ),
        Navigator.pushReplacement(
                                                              const SizedBox(height: 20),
          context.
                                                              // Password TextField
                                                              TextField(
```

class RegistrationScreen extends

StatefulWidget {

```
controller: passwordController,
                                                                 // Implement forgot password logic if
        obscureText: true,
                                                       desired.
        style: const TextStyle(color:
                                                               },
                                                                child: const Text("Forgot password?",
Colors.white),
                                                       style: TextStyle(color: Colors.blue)),
        decoration: InputDecoration(
          labelText: "Password",
          labelStyle: const TextStyle(color:
                                                              const SizedBox(height: 20),
Colors.white70),
                                                              const Row(
          enabledBorder: OutlineInputBorder(
                                                               children: [
                                                                 Expanded(child: Divider(color:
           borderSide: const
BorderSide(color: Colors.white38),
                                                       Colors.white)),
           borderRadius:
                                                                 Padding(
                                                                  padding:
BorderRadius.circular(8),
                                                       EdgeInsets.symmetric(horizontal: 10),
          ),
          focusedBorder: OutlineInputBorder(
                                                                  child: Text("OR", style:
           borderSide: const
                                                       TextStyle(color: Colors.white)),
BorderSide(color: Colors.blue),
           borderRadius:
                                                                 Expanded(child: Divider(color:
BorderRadius.circular(8),
                                                       Colors.white)),
          ),
                                                               ],
        ),
                                                              ),
                                                              // Additional social login buttons can
       ),
       const SizedBox(height: 20),
                                                       be added here
       // Login button or a loading indicator
                                                              const Spacer(),
       _isLoading
                                                              // Navigation to registration screen
          ? const CircularProgressIndicator()
                                                              TextButton(
          : ElevatedButton(
                                                               onPressed: () {
        style: ElevatedButton.styleFrom(
                                                                 Navigator.pushNamed(context,
          backgroundColor: Colors.blue,
                                                       '/register');
          minimumSize: const
Size(double.infinity, 50),
                                                               child: const Text("Don't have an
                                                       account? Register", style: TextStyle(color:
        ),
                                                       Colors.blue, fontSize: 16)),
        onPressed: login,
        child: const Text("Log In", style:
TextStyle(color: Colors.white)),
                                                              const SizedBox(height: 20),
                                                             ],
       const SizedBox(height: 10),
                                                           ),
       TextButton(
                                                          ),
        onPressed: () {
                                                         );
                                                       }
registration_screen.dart
```

import 'package:flutter/material.dart';

'package:firebase_auth/firebase_auth.dart';

```
const RegistrationScreen({super.key});
                                                         );
                                                         return;
 @override
                                                        }
 State<RegistrationScreen> createState() =>
RegistrationScreenState();
                                                        setState(() {
                                                          _isLoading = true;
                                                        });
class RegistrationScreenState extends
State<RegistrationScreen> {
                                                        try {
 // Controllers for input fields
                                                         // Create the user
 final TextEditingController nameController =
                                                         UserCredential userCredential = await
TextEditingController();
                                                      _auth.createUserWithEmailAndPassword(
 final TextEditingController emailController =
                                                           email: email,
TextEditingController();
                                                           password: password,
 final TextEditingController
                                                         );
passwordController = TextEditingController();
                                                         // Optionally update the display name
 final TextEditingController
                                                         if (userCredential.user != null &&
confirmPasswordController =
TextEditingController();
                                                      nameController.text.trim().isNotEmpty) {
                                                           await
// Firebase Auth instance
                                                      userCredential.user!.updateDisplayName(na
 final FirebaseAuth _auth =
                                                      meController.text.trim());
FirebaseAuth.instance;
 bool _isLoading = false;
                                                         // On successful registration, navigate to
                                                      main screen.
 @override
 void dispose() {
                                                      Navigator.pushReplacementNamed(context,
  nameController.dispose();
                                                      '/main');
  emailController.dispose();
                                                        } on FirebaseAuthException catch (e) {
  passwordController.dispose();
                                                         String message = 'Registration failed';
  confirmPasswordController.dispose();
                                                         if (e.code == 'weak-password') {
                                                          message = 'The password provided is
  super.dispose();
 }
                                                      too weak.';
                                                         } else if (e.code == 'email-already-in-use')
 /// Register a new user with Firebase
Authentication
                                                           message = 'An account already exists for
 Future<void> _register() async {
                                                      that email.';
  final email = emailController.text.trim();
                                                         }
  final password = passwordController.text;
  final confirmPassword =
                                                      ScaffoldMessenger.of(context).showSnackBar
confirmPasswordController.text;
                                                           SnackBar(content: Text(message)),
  if (password != confirmPassword) {
                                                         );
                                                        } catch (e) {
ScaffoldMessenger.of(context).showSnackBar
                                                      ScaffoldMessenger.of(context).showSnackBar
     const SnackBar(content:
Text("Passwords do not match")),
```

```
const SnackBar(content: Text("An error
                                                                focusedBorder: OutlineInputBorder(
occurred")),
                                                                  borderSide: const
                                                      BorderSide(color: Colors.blue),
   );
                                                                  borderRadius:
                                                      BorderRadius.circular(8),
  setState(() {
                                                                ),
    isLoading = false;
                                                               ),
  });
                                                              ),
 }
                                                              const SizedBox(height: 20),
                                                              // Email Address field
 @override
                                                              TextField(
                                                               controller: emailController,
 Widget build(BuildContext context) {
  return Scaffold(
                                                               style: const TextStyle(color:
   backgroundColor: Colors.black,
                                                      Colors.white),
   appBar: AppBar(
                                                               decoration: InputDecoration(
     backgroundColor: Colors.black,
                                                                labelText: "Email Address",
     title: const Text("Register", style:
                                                                labelStyle: const TextStyle(color:
TextStyle(color: Colors.white)),
                                                      Colors.white70),
     centerTitle: true,
                                                                enabledBorder: OutlineInputBorder(
     leading: IconButton(
                                                                  borderSide: const
      icon: const lcon(lcons.arrow_back,
                                                      BorderSide(color: Colors.white38),
                                                                  borderRadius:
color: Colors.white),
      onPressed: () {
                                                      BorderRadius.circular(8),
       Navigator.pop(context);
                                                                focusedBorder: OutlineInputBorder(
      },
     ),
                                                                  borderSide: const
                                                      BorderSide(color: Colors.blue),
   body: SingleChildScrollView(
                                                                  borderRadius:
                                                      BorderRadius.circular(8),
     padding: const
EdgeInsets.symmetric(horizontal: 20, vertical:
                                                                ),
20),
                                                               ),
     child: Column(
                                                              ),
      children: [
                                                              const SizedBox(height: 20),
       const SizedBox(height: 20),
                                                              // Password field
       // Full Name field (optional)
                                                              TextField(
       TextField(
                                                               controller: passwordController,
        controller: nameController,
                                                               obscureText: true,
        style: const TextStyle(color:
                                                               style: const TextStyle(color:
Colors.white),
                                                      Colors.white),
        decoration: InputDecoration(
                                                               decoration: InputDecoration(
          labelText: "Full Name".
                                                                labelText: "Password",
          labelStyle: const TextStyle(color:
                                                                labelStyle: const TextStyle(color:
Colors.white70),
                                                      Colors.white70),
          enabledBorder: OutlineInputBorder(
                                                                enabledBorder: OutlineInputBorder(
           borderSide: const
                                                                  borderSide: const
BorderSide(color: Colors.white38),
                                                      BorderSide(color: Colors.white38),
           borderRadius:
                                                                  borderRadius:
BorderRadius.circular(8),
                                                      BorderRadius.circular(8),
          ),
                                                                ),
```

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```
focusedBorder: OutlineInputBorder(
                                                                ),
           borderSide: const
                                                               ),
BorderSide(color: Colors.blue),
                                                              ),
           borderRadius:
                                                              const SizedBox(height: 20),
                                                              _isLoading
BorderRadius.circular(8),
                                                                ? const CircularProgressIndicator()
          ),
                                                                : ElevatedButton(
        ),
                                                               style: ElevatedButton.styleFrom(
       const SizedBox(height: 20),
                                                                backgroundColor: Colors.blue,
       // Confirm Password field
                                                                minimumSize: const
                                                      Size(double.infinity, 50),
       TextField(
        controller:
                                                               ),
                                                               onPressed: register,
confirmPasswordController,
        obscureText: true.
                                                               child: const Text("Register", style:
                                                      TextStyle(color: Colors.white)),
        style: const TextStyle(color:
Colors.white),
        decoration: InputDecoration(
                                                              const SizedBox(height: 10),
          labelText: "Confirm Password",
                                                              // Optionally add a link to the login
                                                      page if already have an account.
          labelStyle: const TextStyle(color:
Colors.white70),
                                                            ],
          enabledBorder: OutlineInputBorder(
                                                           ),
           borderSide: const
                                                          ),
BorderSide(color: Colors.white38),
                                                         );
           borderRadius:
BorderRadius.circular(8),
          focusedBorder: OutlineInputBorder(
           borderSide: const
                                                      home_screen.dart
BorderSide(color: Colors.blue),
           borderRadius:
BorderRadius.circular(8),
import 'package:flutter/material.dart';
                                                          'icon': Icons.fitness center,
class HomeScreen extends StatefulWidget {
                                                          'title': 'Featured Workout',
                                                          'description': 'Try our new HIIT routine for
 const HomeScreen({super.key});
                                                      maximum burn!',
 @override
                                                          'color': Colors.blueAccent,
 State<HomeScreen> createState() =>
                                                        },
HomeScreenState();
                                                          'icon': Icons.local_dining,
                                                          'title': 'Nutrition Tip',
                                                          'description': 'Include more protein in your
class _HomeScreenState extends
State<HomeScreen> {
                                                      meals for muscle gain.',
 int currentCarouseIIndex = 0;
                                                          'color': Colors.green,
 final PageController _pageController =
                                                        },
PageController();
                                                          'icon': Icons.self_improvement,
                                                          'title': 'Mindfulness',
 final List<Map<String, dynamic>>
carouselData = [
```

```
'description': 'Take a moment to meditate
                                                                    padding: const
and destress.',
                                                       EdgeInsets.all(16),
   'color': Colors.purple,
                                                                    child: Row(
                                                                     children: [
  },
                                                                       Icon(
 ];
                                                                        item['icon'],
 @override
                                                                        size: 48,
 void dispose() {
                                                                        color: item['color'],
  _pageController.dispose();
                                                                       ),
  super.dispose();
                                                                       const SizedBox(width: 16),
 }
                                                                       Expanded(
                                                                        child: Column(
 @override
                                                                         mainAxisAlignment:
 Widget build(BuildContext context) {
                                                       MainAxisAlignment.center,
  return Scaffold(
                                                                         crossAxisAlignment:
   appBar: AppBar(
                                                       CrossAxisAlignment.start,
     title: const Text("Home"),
                                                                         children: [
     backgroundColor: Colors.black,
                                                                           Text(
     centerTitle: true,
                                                                            item['title'],
                                                                            style: const TextStyle(
   ),
   backgroundColor: Colors.black,
                                                                             color: Colors.white,
   body: SingleChildScrollView(
                                                                             fontSize: 20,
     child: Column(
                                                                             fontWeight:
                                                       FontWeight.bold,
      children: [
       // Carousel Section with Custom
                                                                            ),
Widgets
                                                                           ),
       SizedBox(
                                                                           const SizedBox(height: 8),
         height: 200,
                                                                           Text(
                                                                            item['description'],
         child: PageView.builder(
          controller: _pageController,
                                                                            style: const TextStyle(
          itemCount: carouselData.length,
                                                                             color: Colors.white70,
          onPageChanged: (index) {
                                                                             fontSize: 16.
           setState(() {
                                                                            ),
             _currentCarouselIndex = index;
                                                                           ),
           });
                                                                         ],
          },
                                                                        ),
          itemBuilder: (context, index) {
                                                                       ),
           final item = carouselData[index];
           return Container(
                                                                    ),
             margin: const
                                                                   );
EdgeInsets.symmetric(horizontal: 10, vertical:
                                                                 },
10),
                                                                ),
             decoration: BoxDecoration(
                                                               ),
              borderRadius:
                                                               // Carousel Indicator Dots
BorderRadius.circular(12),
                                                               Row(
              color:
                                                                mainAxisAlignment:
item['color'].withOpacity(0.2),
                                                       MainAxisAlignment.center,
                                                                children:
            ),
                                                       List.generate(carouselData.length, (index) {
```

```
return AnimatedContainer(
                                                                  const SizedBox(width: 10),
           duration: const
                                                                  buildTrackerCard(
Duration(milliseconds: 300),
                                                                    icon: Icons.directions run,
           margin: const
                                                                    title: "Steps",
EdgeInsets.symmetric(horizontal: 4),
                                                                    value: "5,432",
           height: 8,
                                                                  ),
           width: currentCarouseIIndex ==
                                                                  const SizedBox(width: 10),
                                                                   _buildTrackerCard(
index ? 20:8,
           decoration: BoxDecoration(
                                                                    icon: lcons.local_fire_department,
            color: _currentCarouseIIndex ==
                                                                    title: "Calories",
index ? Colors.blue : Colors.white54,
                                                                    value: "1,234 cal",
            borderRadius:
                                                                  ),
BorderRadius.circular(4),
                                                                 ],
                                                                ),
           ),
          );
                                                               ),
                                                               const SizedBox(height: 20),
        }),
       ),
       const SizedBox(height: 20),
                                                               // Goals Section
                                                               Padding(
       // Trackers Section
                                                                padding: const
                                                       EdgeInsets.symmetric(horizontal: 16),
       Padding(
                                                                child: Row(
         padding: const
EdgeInsets.symmetric(horizontal: 16),
                                                                 children: const [
         child: Row(
                                                                   Text(
          children: const [
                                                                    "Your Goals",
           Text(
                                                                    style: TextStyle(
             "Trackers",
                                                                     color: Colors.white,
             style: TextStyle(
                                                                     fontSize: 20,
              color: Colors.white,
                                                                     fontWeight: FontWeight.bold,
              fontSize: 20,
                                                                    ),
              fontWeight: FontWeight.bold,
                                                                  ),
                                                                 ],
            ),
           ),
                                                                ),
         ],
                                                               ),
         ),
                                                               const SizedBox(height: 10),
                                                               Padding(
       const SizedBox(height: 10),
                                                                padding: const
       SizedBox(
                                                       EdgeInsets.symmetric(horizontal: 16),
                                                                child: Row(
         height: 150,
         child: ListView(
                                                                 children: [
          scrollDirection: Axis.horizontal,
                                                                  Expanded(
          padding: const
                                                                    child: _buildGoalCard(
EdgeInsets.symmetric(horizontal: 16),
                                                                     title: "Remaining Calories",
          children: [
                                                                     value: "850 cal",
           _buildTrackerCard(
                                                                     icon:
            icon: Icons.favorite,
                                                       Icons.local fire department,
            title: "Heart Rate",
                                                                     color: Colors.orange,
             value: "72 bpm",
                                                                    ),
                                                                  ),
           ),
```

```
const SizedBox(width: 10),
                                                           decoration: BoxDecoration(
                                                             color: Colors.grey[900],
           Expanded(
             child: buildGoalCard(
                                                             borderRadius: BorderRadius.circular(12),
              title: "Water Intake",
                                                           ),
              value: "5/8 glasses",
                                                           child: Column(
              icon: Icons.water,
                                                             mainAxisAlignment:
              color: Colors.lightBlue,
                                                        MainAxisAlignment.center,
                                                             children: [
            ),
                                                              Icon(icon, size: 40, color: Colors.blue),
           ),
          ],
                                                              const SizedBox(height: 10),
        ),
                                                              Text(
                                                               title,
       const SizedBox(height: 20),
                                                               style: const TextStyle(
                                                                 color: Colors.white70,
       // Graph Section
                                                                 fontSize: 16,
       Padding(
                                                               ),
         padding: const
                                                              ),
EdgeInsets.symmetric(horizontal: 16),
                                                              const SizedBox(height: 5),
         child: Row(
                                                              Text(
          children: const [
                                                               value.
                                                               style: const TextStyle(
            Text(
             "Progress Graph",
                                                                 color: Colors.white,
            style: TextStyle(
                                                                 fontSize: 18,
              color: Colors.white,
                                                                 fontWeight: FontWeight.bold,
              fontSize: 20,
                                                               ),
              fontWeight: FontWeight.bold,
                                                              )
                                                            ],
            ),
           ),
                                                           ),
          ],
                                                          );
        ),
       ),
       const SizedBox(height: 10),
                                                         // Goal Card
        _buildGraphWidget(),
                                                         Widget _buildGoalCard({
       const SizedBox(height: 30),
                                                          required String title,
                                                          required String value,
      ],
     ),
                                                          required IconData icon,
   ),
                                                          required Color color,
                                                         }) {
                                                          return Container(
                                                           padding: const EdgeInsets.all(16),
 // Tracker Card
                                                           decoration: BoxDecoration(
 Widget _buildTrackerCard({
                                                             color: Colors.grey[900],
  required IconData icon,
                                                             borderRadius: BorderRadius.circular(12),
  required String title,
                                                           ),
  required String value,
                                                           child: Column(
                                                             children: [
 }) {
                                                              Icon(icon, size: 40, color: color),
  return Container(
   width: 140,
                                                              const SizedBox(height: 10),
   padding: const EdgeInsets.all(16),
                                                              Text(
```

```
title,
                                                       Widget buildGraphWidget() {
       textAlign: TextAlign.center,
                                                        return Container(
       style: const TextStyle(
                                                          margin: const
        color: Colors.white70,
                                                      EdgeInsets.symmetric(horizontal: 16),
        fontSize: 14,
                                                          height: 200,
                                                          decoration: BoxDecoration(
       ),
                                                           color: Colors.grey[900],
      ),
                                                           borderRadius: BorderRadius.circular(12),
      const SizedBox(height: 5),
      Text(
                                                          ),
       value,
                                                          child: const Center(
       style: const TextStyle(
                                                           child: Text(
                                                            "Graph \n(Progress Over Time)",
        color: Colors.white,
        fontSize: 16,
                                                            textAlign: TextAlign.center,
        fontWeight: FontWeight.bold,
                                                            style: TextStyle(
                                                             color: Colors.white70,
       ),
      )
                                                             fontSize: 16,
    ],
                                                            ),
   ),
                                                           ),
  );
                                                         ),
                                                        );
 // Placeholder for Graph Widget
main_screen.dart
import 'package:flutter/material.dart';
                                                       ];
import 'home_screen.dart';
import log food screen.dart';
                                                       @override
import 'settings_screen.dart';
                                                       Widget build(BuildContext context) {
                                                        return Scaffold(
class MainScreen extends StatefulWidget {
                                                          backgroundColor: Colors.black, // Ensures
                                                      a black background for the screen
 const MainScreen({super.key});
                                                          body: _pages[_currentIndex], // Display
 @override
                                                      selected page
 State<MainScreen> createState() =>
                                                          bottomNavigationBar:
                                                      BottomNavigationBar(
_MainScreenState();
                                                           backgroundColor: Colors.grey[850], //
}
                                                      Ensure a distinct background color
                                                           currentIndex: _currentIndex,
class _MainScreenState extends
State<MainScreen> {
                                                           unselectedItemColor: Colors.white70,
 int _currentIndex = 0;
                                                           selectedItemColor: Colors.blue,
                                                           showUnselectedLabels: true,
 // List of pages corresponding to each
                                                           items: const [
bottom nav item.
                                                            BottomNavigationBarItem(
 final List<Widget> _pages = const [
                                                             icon: Icon(Icons.home),
                                                             label: "Home",
  HomeScreen(),
  LogFoodScreen(),
  SettingsScreen(),
                                                            BottomNavigationBarItem(
```

D15A

```
setState(() {
    _currentIndex = index; // Update the
current selected index
    });
    },
    ),
    );
}
```

D15A

Screenshots:

