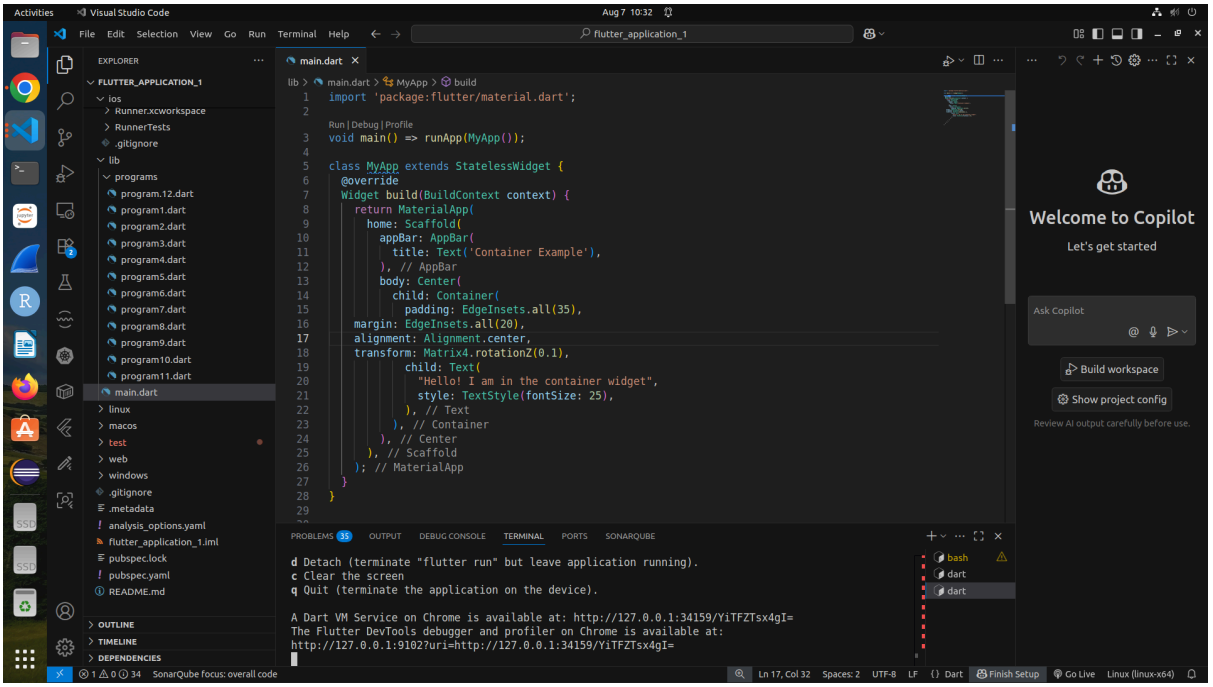
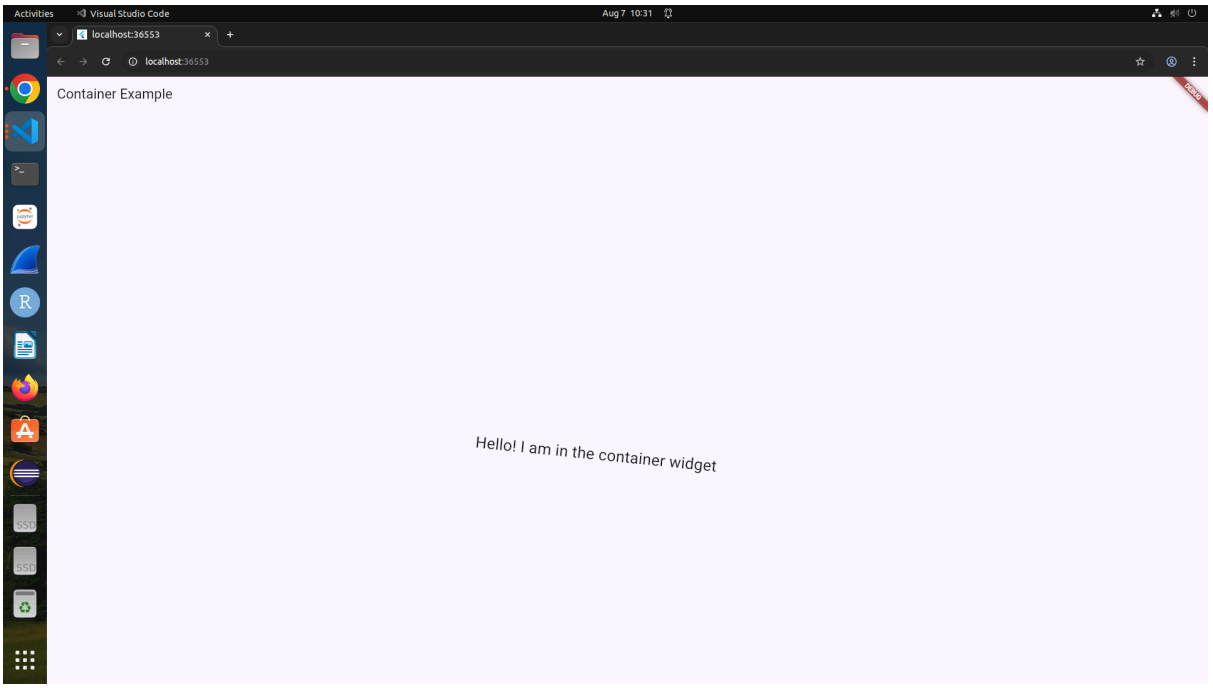
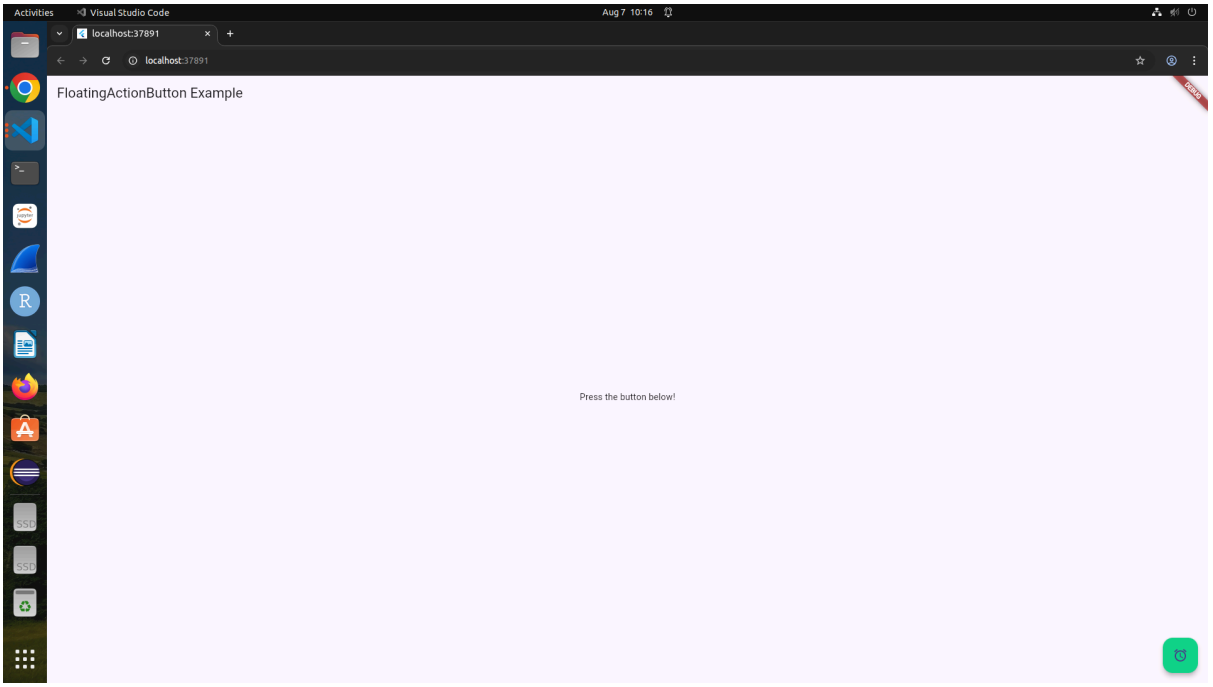
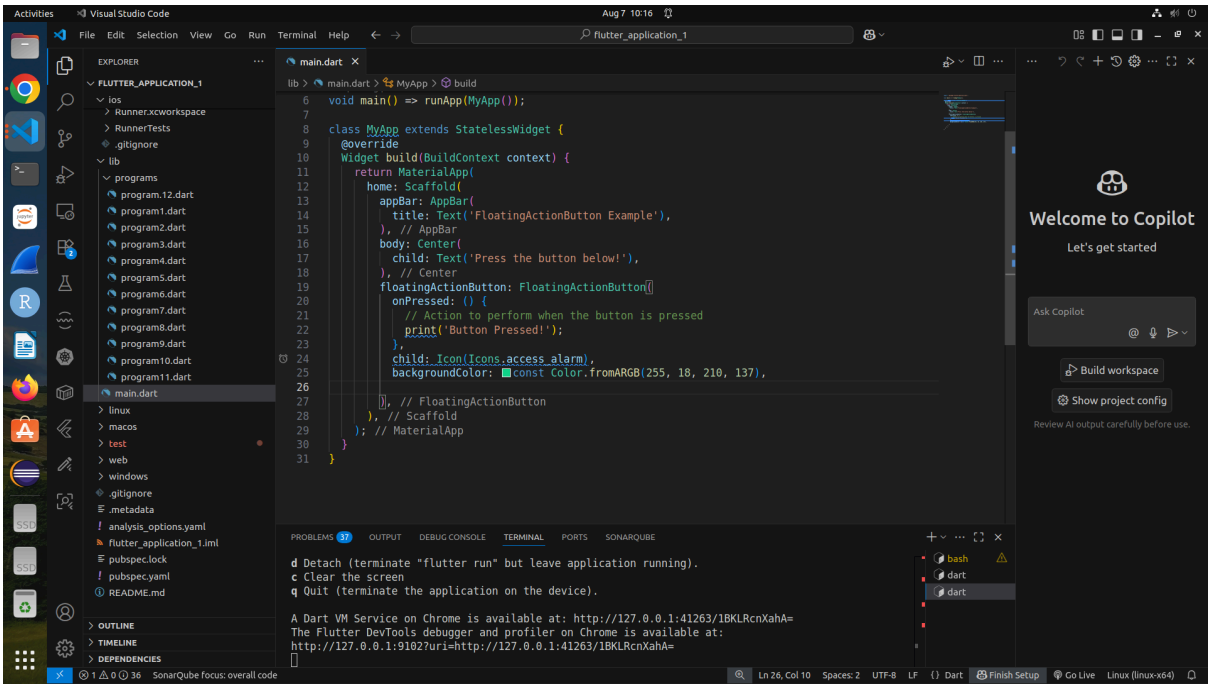

Activities
Visual Studio Code
Aug 7 10:32
File Edit Selection View Go Run Terminal Help
flutter_application_1
EXPLORER
FLUTTER_APPLICATION_1
ios
Runner.xcworkspace
RunnerTests
.gitignore
lib
programs
program.12.dart
program1.dart
program2.dart
program3.dart
program4.dart
program5.dart
program6.dart
program7.dart
program8.dart
program9.dart
program10.dart
program11.dart
main.dart
linux
macos
test
web
windows
.gitignore
.metadata
analysis_options.yaml
flutter_application_1.iml
pubspec.lock
pubspec.yaml
README.md
OUTLINE
TIMELINE
DEPENDENCIES
main.dart
lib > main.dart > MyApp > build
import 'package:flutter/material.dart';
Run | Debug | Profile
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
return MaterialApp(
home: Scaffold(
appBar: AppBar(
title: Text('Container Example'),
), // AppBar
body: Center(
child: Container(
padding: EdgeInsets.all(35),
margin: EdgeInsets.all(20),
alignment: Alignment.center,
transform: Matrix4.rotationZ(0.1),
child: Text(
"Hello! I am in the container widget",
style: TextStyle(fontSize: 25),
), // Text
), // Container
), // Center
), // Scaffold
); // MaterialApp
}
}
PROBLEMS 35
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SONARQUBE
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).
A Dart VM Service on Chrome is available at: http://127.0.0.1:34159/YiTFZTsx4gI=
The Flutter DevTools debugger and profiler on Chrome is available at:
http://127.0.0.1:9102?uri=http://127.0.0.1:34159/YiTFZTsx4gI=
bash
dart
dart
Welcome to Copilot
Let's get started
Ask Copilot
Build workspace
Show project config
Review AI output carefully before use.
SonarQube focus: overall code
Ln 17, Col 32
Spaces: 2
UTF-8
LF
Dart
Finish Setup
Go Live
Linux (linux-x64)


Activities
Visual Studio Code
Aug 7 10:31
localhost:36553
localhost:36553
Container Example
Hello! I am in the container widget


Activities
Visual Studio Code
Aug 7 10:16
localhost:37891
localhost:37891
FloatingActionButton Example
DEBUG
Press the button below!


Activities
Visual Studio Code
Aug 7 10:16
File Edit Selection View Go Run Terminal Help
flutter_application_1
EXPLORER
FLUTTER_APPLICATION_1
ios
Runner.xcworkspace
RunnerTests
.gitignore
lib
programs
program.12.dart
program1.dart
program2.dart
program3.dart
program4.dart
program5.dart
program6.dart
program7.dart
program8.dart
program9.dart
program10.dart
program11.dart
main.dart
linux
macos
test
web
windows
.gitignore
.metadata
analysis_options.yaml
flutter_application_1.iml
pubspec.lock
pubspec.yaml
README.md
OUTLINE
TIMELINE
DEPENDENCIES
main.dart
lib > main.dart > MyApp > build
6 void main() => runApp(MyApp());
7
8 class MyApp extends StatelessWidget {
9 @override
10 Widget build(BuildContext context) {
11 return MaterialApp(
12 home: Scaffold(
13 appBar: AppBar(
14 title: Text('FloatingActionButton Example'),
15), // AppBar
16 body: Center(
17 child: Text('Press the button below!'),
18), // Center
19 floatingActionButton: FloatingActionButton(
20 onPressed: () {
21 // Action to perform when the button is pressed
22 print('Button Pressed!');
23 },
24 child: Icon(Icons.access_alarm),
25 backgroundColor: const Color.fromARGB(255, 18, 210, 137),
26
27), // FloatingActionButton
28), // Scaffold
29); // MaterialApp
30 }
31 }
PROBLEMS 37
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SONARQUBE
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).
A Dart VM Service on Chrome is available at: http://127.0.0.1:41263/1BKLRcnXahA=
The Flutter DevTools debugger and profiler on Chrome is available at:
http://127.0.0.1:9102?uri=http://127.0.0.1:41263/1BKLRcnXahA=
bash
dart
dart
Welcome to Copilot
Let's get started
Ask Copilot
Build workspace
Show project config
Review AI output carefully before use.
SonarQube focus: overall code
Ln 26, Col 10
Spaces: 2
UTF-8
LF
Dart
Finish Setup
Go Live
Linux (linux-x64)

Activities Visual Studio Code Aug 7 10:08

File Edit Selection View Go Run Terminal Help flutter_application_1

EXPLORER

FLUTTER_APPLICATION_1
- ios
  - Runner.xcworkspace
  - RunnerTests
  - .gitignore
- lib
  - programs
    - program.12.dart
    - program1.dart
    - program2.dart
    - program3.dart
    - program4.dart
    - program5.dart
    - program6.dart
    - program7.dart
    - program8.dart
    - program9.dart
    - program10.dart
    - program11.dart
  - main.dart
- linux
- macos
- test
- web
- windows
- .gitignore
- .metadata
- analysis_options.yaml
- flutter_application_1.iml
- pubspec.lock
- pubspec.yaml
- README.md

OUTLINE
TIMELINE
DEPENDENCIES

main.dart

lib > main.dart > MyApp > build

```
4   class MyApp extends StatelessWidget {
6     Widget build(BuildContext context) {
31                  onTap: () => Navigator.pop(context),
32                ), // ListTile
33                ListTile(
34                  leading: Icon(Icons.home),
35                  title: Text('About us'),
36                  onTap: () => Navigator.pop(context),
37                ), // ListTile
38                ListTile(
39                  leading: Icon(Icons.home),
40                  title: Text('Contacts'),
41                  onTap: () => Navigator.pop(context),
42                ), // ListTile
43                ListTile(
44                  leading: Icon(Icons.home),
45                  title: Text('Settings'),
46                  onTap: () => Navigator.pop(context),
47                ), // ListTile
48                ListTile(
49                  leading: Icon(Icons.home),
50                  title: Text('Notifications'),
51                  onTap: () => Navigator.pop(context),
52                ), // ListTile
53
54                ListTile(
55                  leading: Icon(Icons.settings),
56                  title: Text('Feedback'),
57                  onTap: () => Navigator.pop(context),
58                ), // ListTile
59              ], // <Widget>[
60            ), // ListView
61          ), // Drawer
62          body: Center(
63            child: Text('Drawer Example App'),
64          ), // Center
65        ), // Scaffold
66      ); // MaterialApp
67    }
68  }
```

Welcome to Copilot

Let's get started

Ask Copilot

Build workspace

Show project config

Review AI output carefully before use.

1 0 34 SonarQube focus: overall code Ln 56, Col 38 Spaces: 2 UTF-8 LF {} Dart Finish Setup Go Live Linux (linux-x64)

Activities Visual Studio Code Aug 7 10:06

File Edit Selection View Go Run Terminal Help flutter_application_1

EXPLORER

FLUTTER_APPLICATION_1
- ios
  - Runner.xcworkspace
  - RunnerTests
  - .gitignore
- lib
  - programs
    - program.12.dart
    - program1.dart
    - program2.dart
    - program3.dart
    - program4.dart
    - program5.dart
    - program6.dart
    - program7.dart
    - program8.dart
    - program9.dart
    - program10.dart
    - program11.dart
  - main.dart
- linux
- macos
- test
- web
- windows
- .gitignore
- .metadata
- analysis_options.yaml
- flutter_application_1.iml
- pubspec.lock
- pubspec.yaml
- README.md

OUTLINE
TIMELINE
DEPENDENCIES

main.dart

lib > main.dart > MyApp > build

```
1
    Run | Debug | Profile
2   import 'package:flutter/material.dart';void main() => runApp(MyApp());
3
4   class MyApp extends StatelessWidget {
5     @override
6     Widget build(BuildContext context) {
7       return MaterialApp(
8         home: Scaffold(
9           appBar: AppBar(
10            title: Text('Drawer Example'),
11          ), // AppBar
12          drawer: Drawer(
13            child: ListView(
14              padding: EdgeInsets.zero,
15              children: <Widget>[
16                DrawerHeader(
17                  decoration: BoxDecoration(
18                    color: Colors.blue,
19                  ), // BoxDecoration
20                  child: Text(
21                    'Drawer Header',
22                    style: TextStyle(
23                      color: Colors.white,
24                      fontSize: 24,
25                    ), // TextStyle
26                  ), // Text
27                ), // DrawerHeader
28                ListTile(
29                  leading: Icon(Icons.home),
30                  title: Text('Home'),
31                  onTap: () => Navigator.pop(context),
32                ), // ListTile
33                ListTile(
34                  leading: Icon(Icons.home),
35                  title: Text('About us'),
36                  onTap: () => Navigator.pop(context),
37                ), // ListTile
38                ListTile(
39                  leading: Icon(Icons.home),
```

Welcome to Copilot

Let's get started

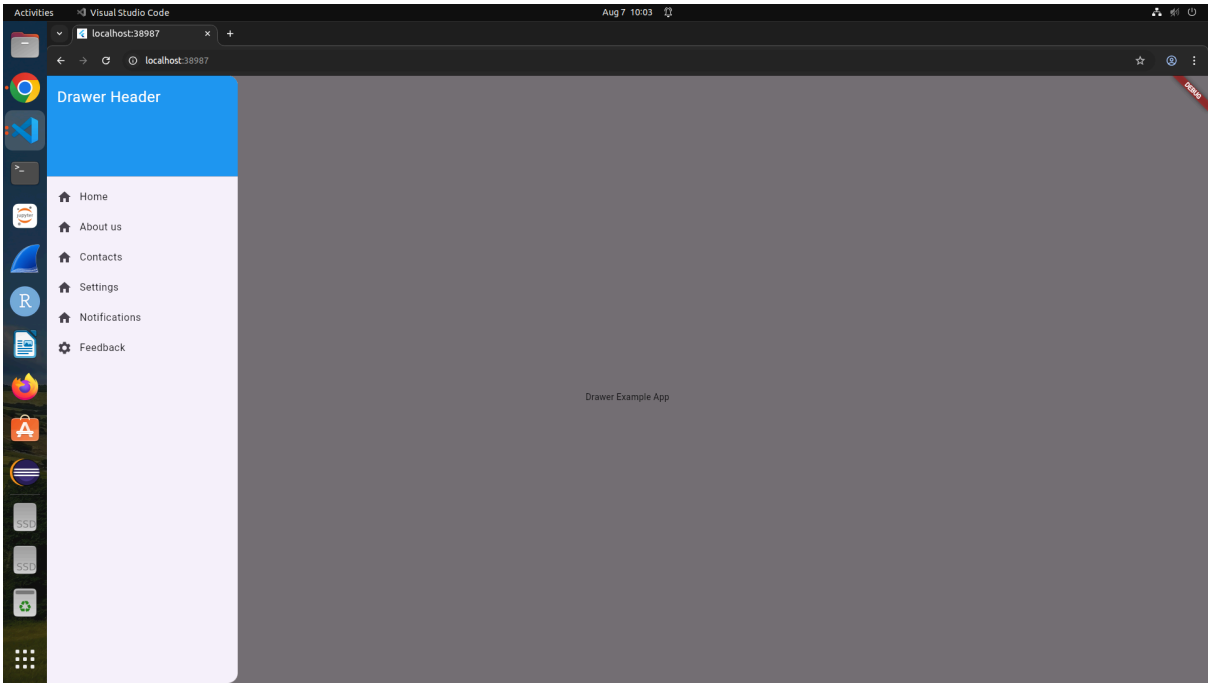
Ask Copilot

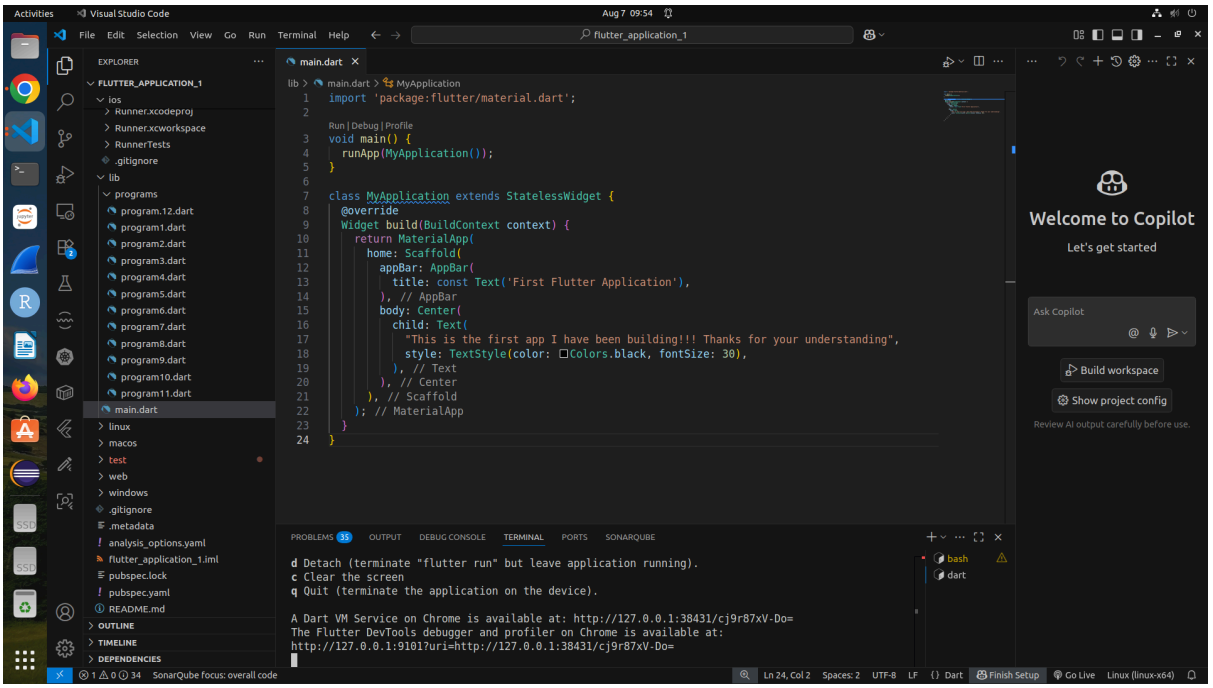
Build workspace

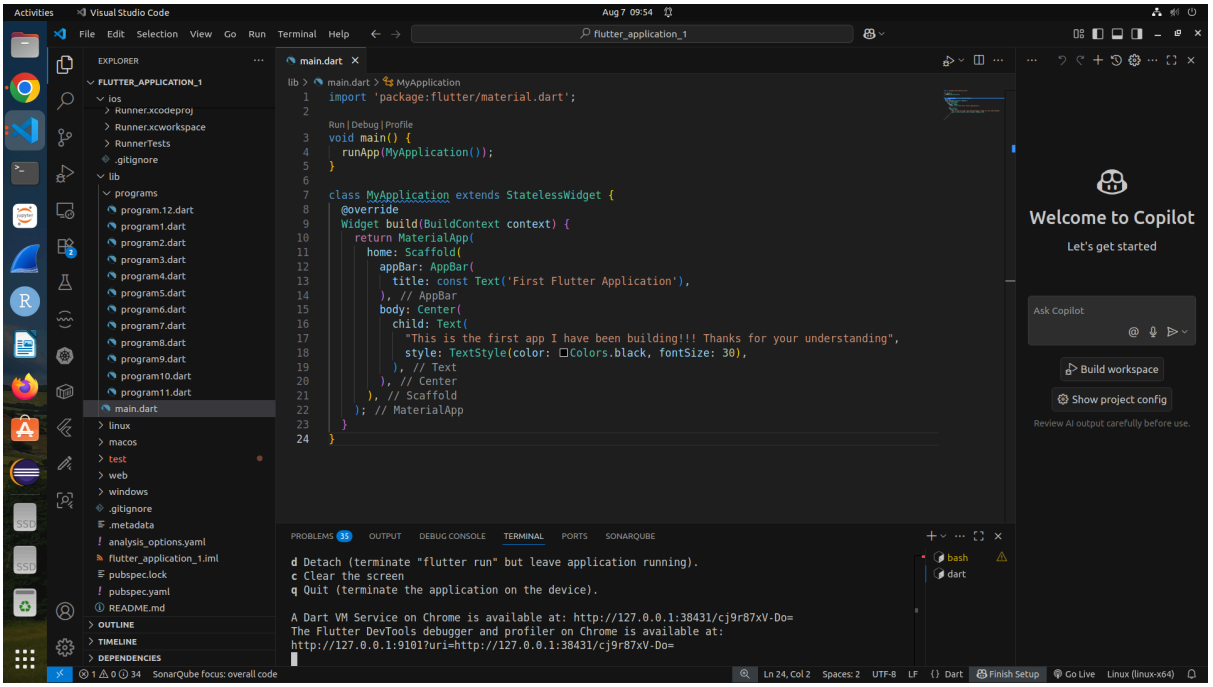
Show project config

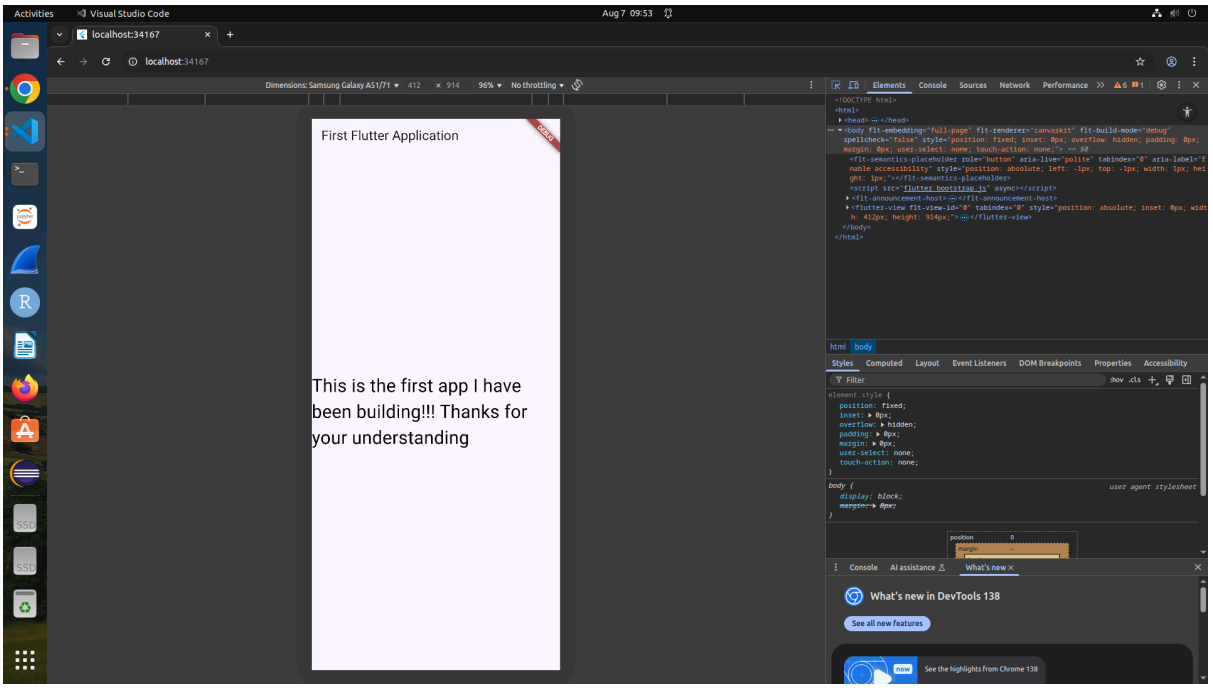
Review AI output carefully before use.

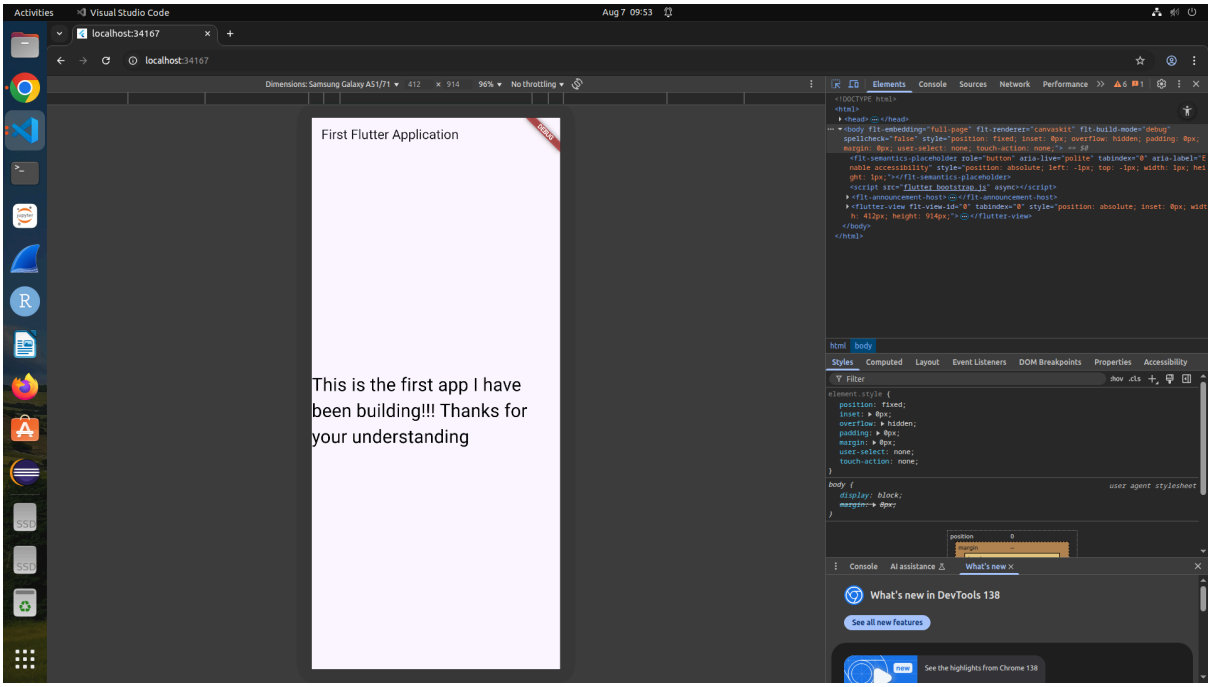
1 0 34 SonarQube focus: overall code Ln 56, Col 38 Spaces: 2 UTF-8 LF {} Dart Finish Setup Go Live Linux (linux-x64)

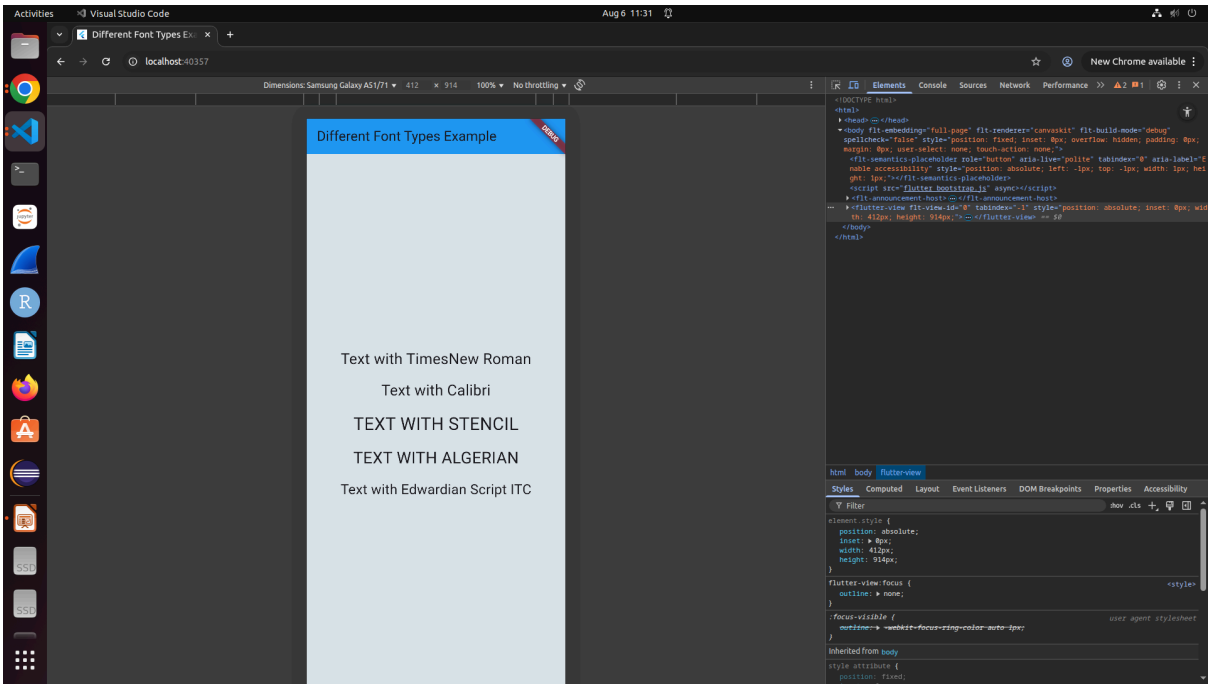

Activities
Visual Studio Code
Aug 7 10:03
localhost:38987
Drawer Header
Home
About us
Contacts
Settings
Notifications
Feedback
Drawer Example App
DEBUG

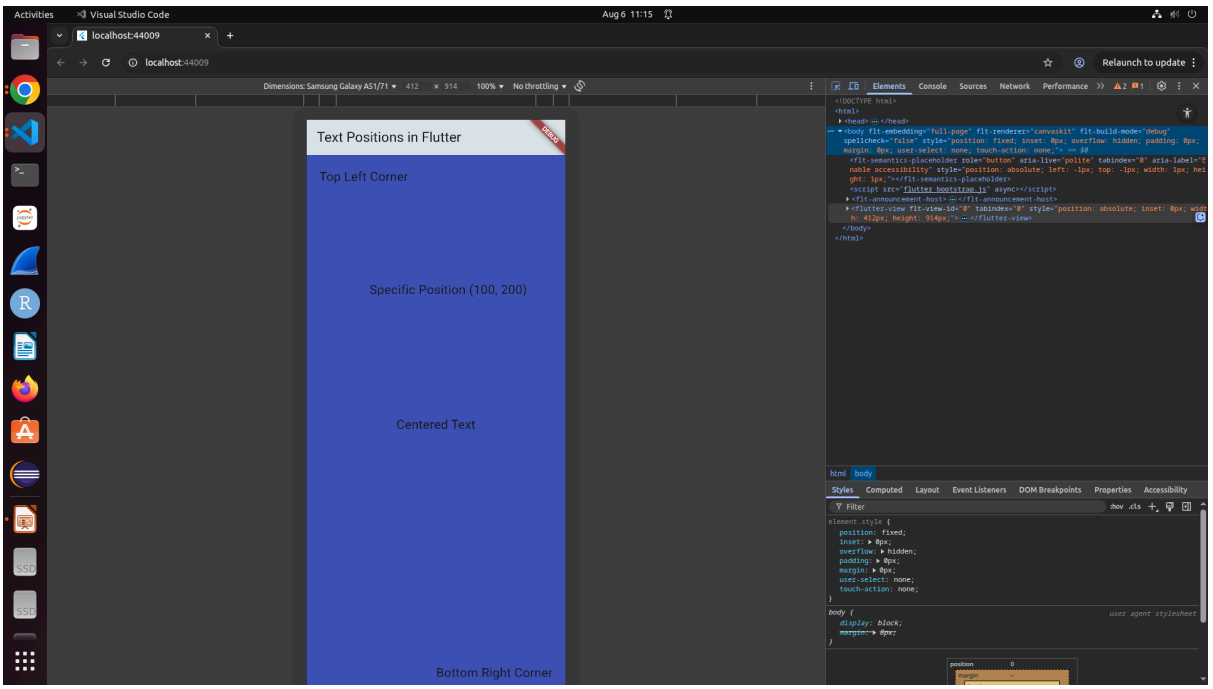

Activities
Visual Studio Code
Aug 7 09:54
File Edit Selection View Go Run Terminal Help
flutter_application_1
EXPLORER
FLUTTER_APPLICATION_1
ios
Runner.xcodeproj
Runner.xcworkspace
RunnerTests
.gitignore
lib
programs
program.12.dart
program1.dart
program2.dart
program3.dart
program4.dart
program5.dart
program6.dart
program7.dart
program8.dart
program9.dart
program10.dart
program11.dart
main.dart
linux
macos
test
web
windows
.gitignore
.metadata
analysis_options.yaml
flutter_application_1.iml
pubspec.lock
pubspec.yaml
README.md
OUTLINE
TIMELINE
DEPENDENCIES
main.dart
lib > main.dart > MyApplication
import 'package:flutter/material.dart';
Run | Debug | Profile
void main() {
runApp(MyApplication());
}
class MyApplication extends StatelessWidget {
@override
Widget build(BuildContext context) {
return MaterialApp(
home: Scaffold(
appBar: AppBar(
title: const Text('First Flutter Application'),
), // AppBar
body: Center(
child: Text(
"This is the first app I have been building!!! Thanks for your understanding",
style: TextStyle(color: Colors.black, fontSize: 30),
), // Text
), // Center
), // Scaffold
); // MaterialApp
}
}
PROBLEMS 35
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SONARQUBE
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).
A Dart VM Service on Chrome is available at: http://127.0.0.1:38431/cj9r87xV-Do=
The Flutter DevTools debugger and profiler on Chrome is available at:
http://127.0.0.1:9101?uri=http://127.0.0.1:38431/cj9r87xV-Do=
bash
dart
Welcome to Copilot
Let's get started
Ask Copilot
Build workspace
Show project config
Review AI output carefully before use.
SonarQube focus: overall code
Ln 24, Col 2
Spaces: 2
UTF-8
LF
Dart
Finish Setup
Go Live
Linux (linux-x64)

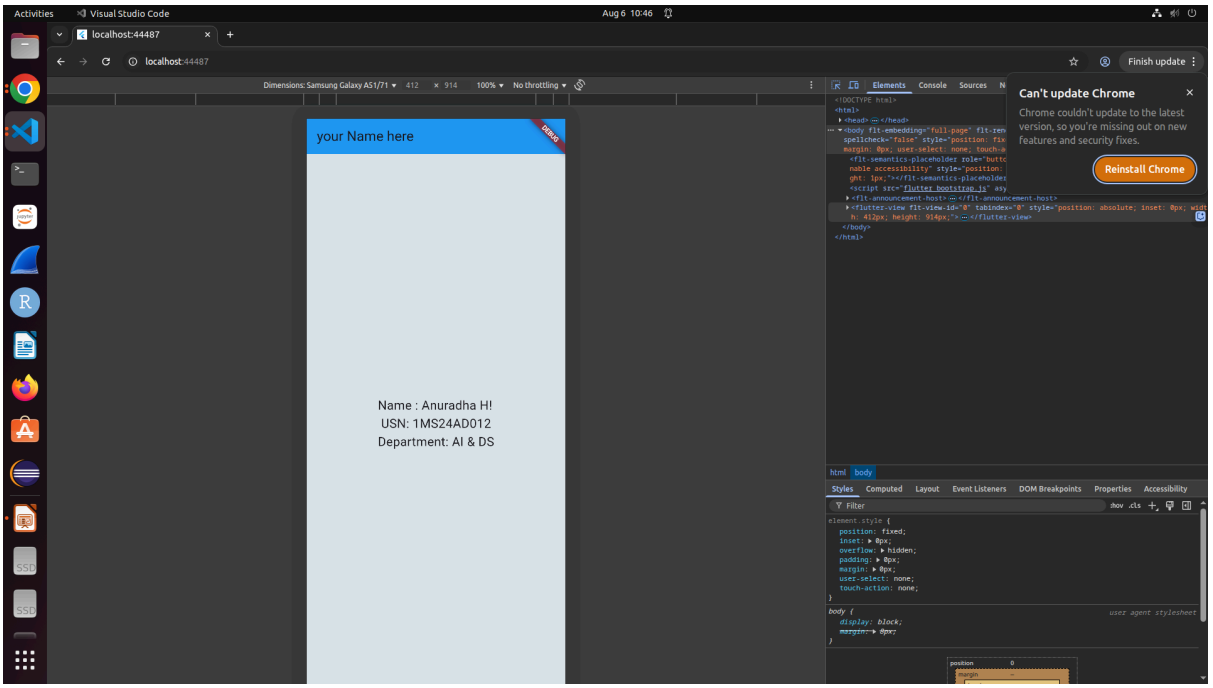

Activities
Visual Studio Code
Aug 7 09:54
File Edit Selection View Go Run Terminal Help
flutter_application_1
EXPLORER
FLUTTER_APPLICATION_1
ios
Runner.xcodeproj
Runner.xcworkspace
RunnerTests
.gitignore
lib
programs
program.12.dart
program1.dart
program2.dart
program3.dart
program4.dart
program5.dart
program6.dart
program7.dart
program8.dart
program9.dart
program10.dart
program11.dart
main.dart
linux
macos
test
web
windows
.gitignore
.metadata
analysis_options.yaml
flutter_application_1.iml
pubspec.lock
pubspec.yaml
README.md
OUTLINE
TIMELINE
DEPENDENCIES
main.dart
lib > main.dart > MyApplication
import 'package:flutter/material.dart';
Run | Debug | Profile
void main() {
runApp(MyApplication());
}
class MyApplication extends StatelessWidget {
@override
Widget build(BuildContext context) {
return MaterialApp(
home: Scaffold(
appBar: AppBar(
title: const Text('First Flutter Application'),
), // AppBar
body: Center(
child: Text(
"This is the first app I have been building!!! Thanks for your understanding",
style: TextStyle(color: Colors.black, fontSize: 30),
), // Text
), // Center
), // Scaffold
); // MaterialApp
}
}
PROBLEMS 35
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SONARQUBE
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).
A Dart VM Service on Chrome is available at: http://127.0.0.1:38431/cj9r87xV-Do=
The Flutter DevTools debugger and profiler on Chrome is available at:
http://127.0.0.1:9101?uri=http://127.0.0.1:38431/cj9r87xV-Do=
bash
dart
Welcome to Copilot
Let's get started
Ask Copilot
Build workspace
Show project config
Review AI output carefully before use.
Ln 24, Col 2
Spaces: 2
UTF-8
LF
Dart
Finish Setup
Go Live
Linux (linux-x64)

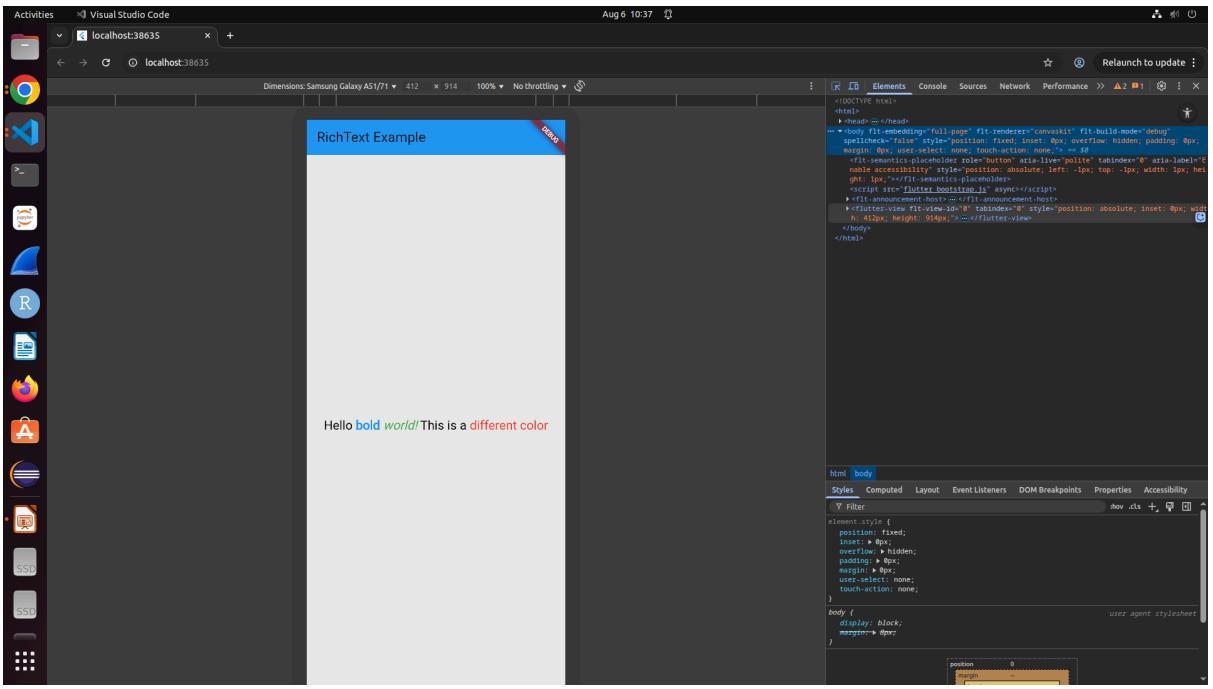

Activities
Visual Studio Code
Aug 7 09:53
localhost:34167
Dimensions: Samsung Galaxy A51/71
No throttling
First Flutter Application
DEBUG
This is the first app I have been building!!! Thanks for your understanding
Elements
Console
Sources
Network
Performance
Styles
Computed
Layout
Event Listeners
DOM Breakpoints
Properties
Accessibility
What's new in DevTools 138
See all new features

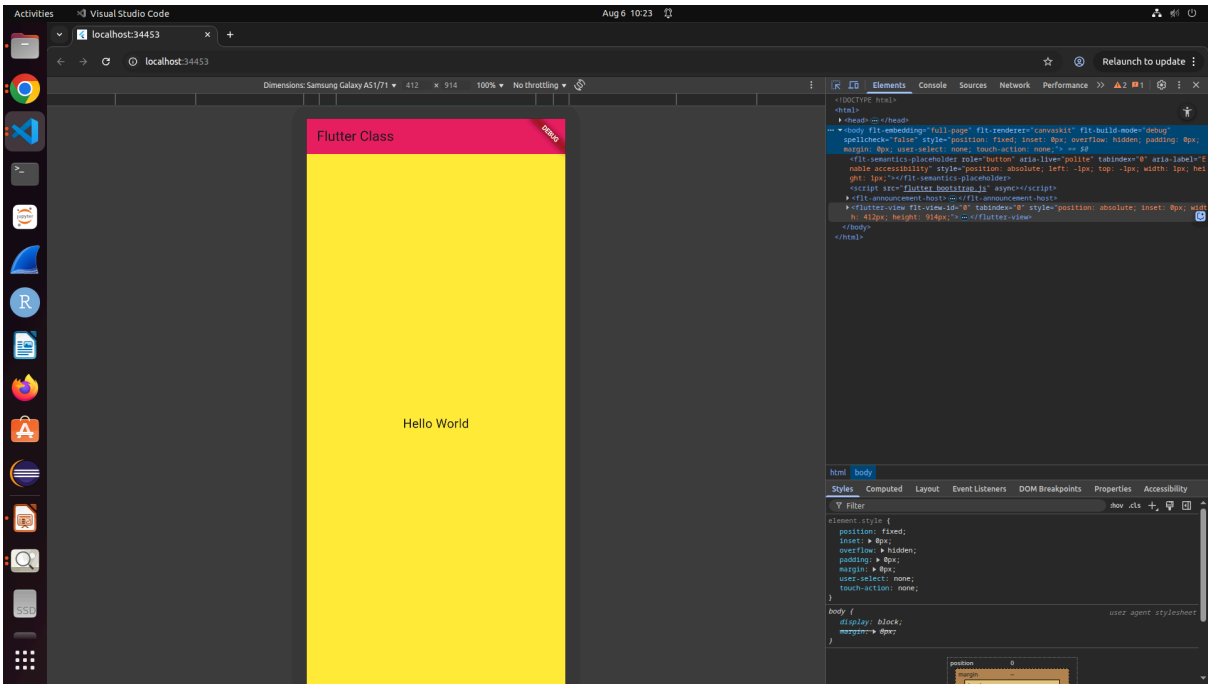

Activities
Visual Studio Code
Aug 7 09:53
localhost:34167
First Flutter Application
DEBUG
This is the first app I have been building!!! Thanks for your understanding
Elements
Console
Sources
Network
Performance
What's new in DevTools 138
See all new features
See the highlights from Chrome 138

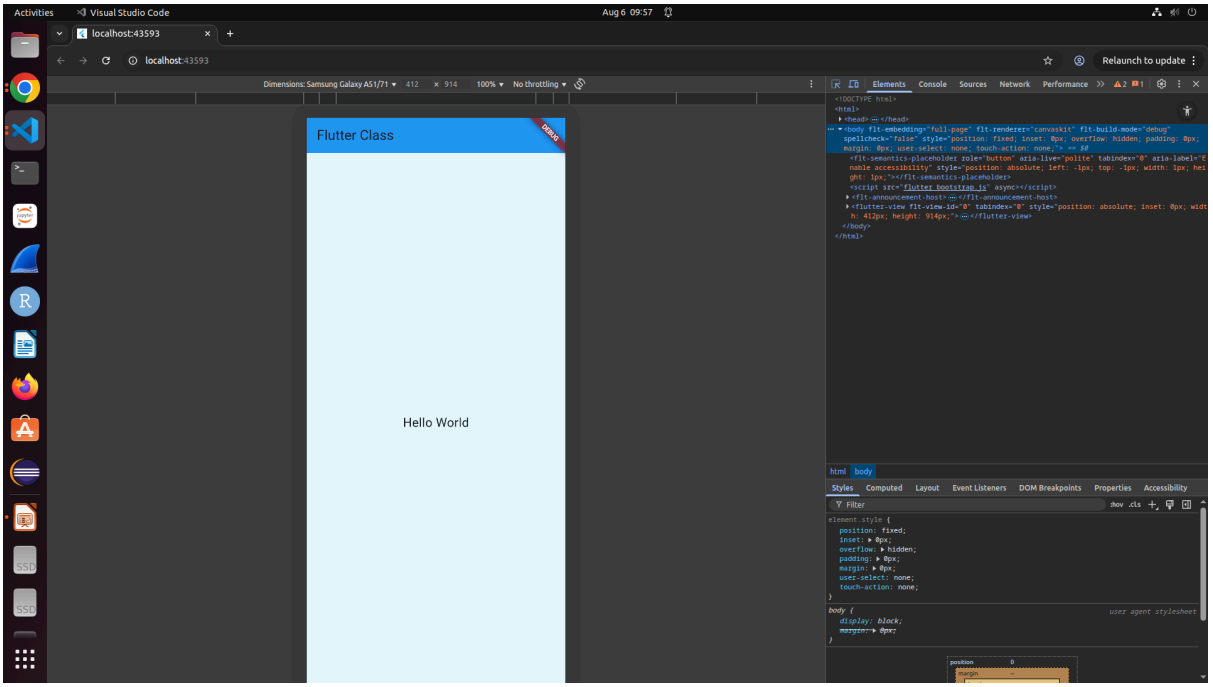

Activities
Visual Studio Code
Aug 6 11:31
Different Font Types Ex
localhost:40357
New Chrome available
Different Font Types Example
DEBUG
Text with TimesNew Roman
Text with Calibri
TEXT WITH STENCIL
TEXT WITH ALGERIAN
Text with Edwardian Script ITC
Elements
Console
Sources
Network
Performance


Activities
Visual Studio Code
Aug 6 11:15
localhost:44009
Relaunch to update
Text Positions in Flutter
DEBUG
Top Left Corner
Specific Position (100, 200)
Centered Text
Bottom Right Corner


Activities
Visual Studio Code
Aug 6 10:46
localhost:44487
Finish update
your Name here
DEBUG
Name : Anuradha H!
USN: 1MS24AD012
Department: AI & DS
Can't update Chrome
Chrome couldn't update to the latest version, so you're missing out on new features and security fixes.
Reinstall Chrome


Activities
Visual Studio Code
Aug 6 10:37
localhost:38635
Relaunch to update
Dimensions: Samsung Galaxy A51/71
No throttling
RichText Example
DEBUG
Hello bold world! This is a different color
Elements
Console
Sources
Network
Performance
Styles
Computed
Layout
Event Listeners
DOM Breakpoints
Properties
Accessibility
Filter


Activities
Visual Studio Code
Aug 6 10:23
localhost:34453
Relaunch to update
Dimensions: Samsung Galaxy A51/71
No throttling
Flutter Class
DEBUG
Hello World
Elements
Console
Sources
Network
Performance
Styles
Computed
Layout
Event Listeners
DOM Breakpoints
Properties
Accessibility
Filter




```
38  });
39  _simpleAnim = Tween<double>(
40  begin: 50,
41  end: 300,
42  ).animate(_simpleAnimController);
43
44  _simpleAnimController.forward();
45  }
46  @override
47  Widget build(BuildContext context) {
48  return Scaffold(
49  appBar: AppBar(
50  title: Text(widget.title),
51  ), // AppBar
52  body: Stack(children: <Widget>[
53  Center(
54  child: Padding(
55  padding: EdgeInsets.only(top: _simpleAnim.value),
56  child: Container(
57  width: 100,
58  height: 100,
59  child: FlutterLogo(),
60  ), // Container
61  ), // Padding
62  ), // Center
63  ]), // <Widget>[] // Stack
64  ); // Scaffold
65  }
66  }
```

main.dart > _TweenAnimationPageState

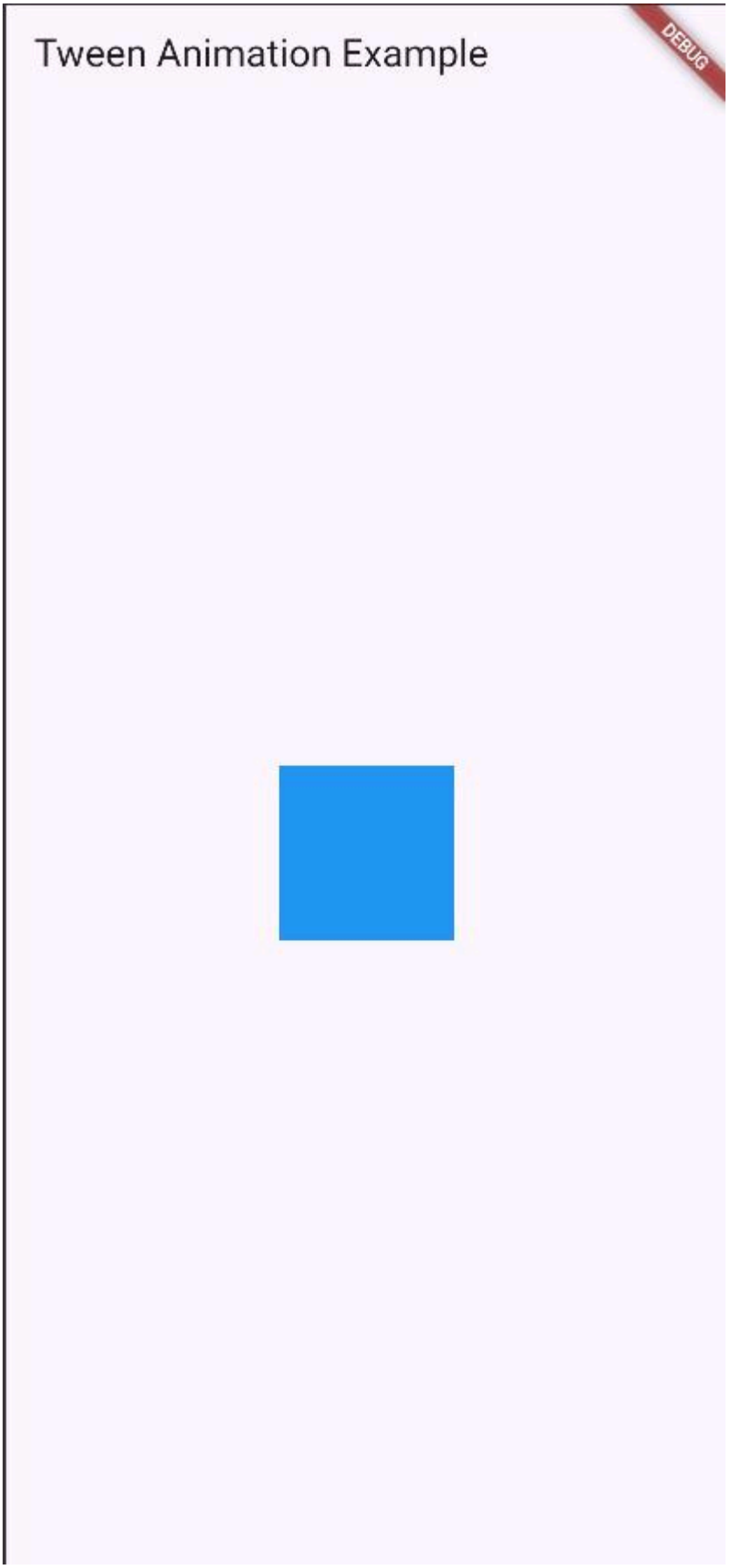
```dart
import 'package:flutter/material.dart';
Run | Debug | Profile
void main() {
runApp(MyApp());
}
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
return MaterialApp(
title: 'Tween Animation Example',
theme: ThemeData(
primarySwatch: Colors.blue,
), // ThemeData
home: TweenAnimationPage(title: 'Tween Animation Page'),
); // MaterialApp
}
}
class TweenAnimationPage extends StatefulWidget {
TweenAnimationPage({Key? key, required this.title}) : super(key: key);
final String title;
@override
_TweenAnimationPageState createState() => _TweenAnimationPageState();
}
class _TweenAnimationPageState extends State<TweenAnimationPage>
with TickerProviderStateMixin {
late AnimationController _simpleAnimController;
late Animation<double> _simpleAnim;
@override
void initState() {
super.initState();
_simpleAnimController = AnimationController(vsync: this, duration:
Duration(milliseconds: 1000)) // AnimationController
..addListener(() => setState(() {}))
..addStatusListener((animStatus) {
if (animStatus == AnimationStatus.completed)
_simpleAnimController.reverse();
if (animStatus == AnimationStatus.dismissed)
_simpleAnimController.forward();
});
_simpleAnim = Tween<double>(
```

code

Tween Animation Page

```
class _TweenAnimationExampleState extends State<TweenAnimationExample>
  void initState() {
      curve: Curves.easeInOut,
    ));
  }

  @override
  void dispose() {
    _controller.dispose();
    super.dispose();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('Tween Animation Example')),
      body: Center(
        child: SlideTransition(
          position: _animation,
          child: Container(width: 100, height: 100, color: Colors.blue),
        ), // SlideTransition
      ), // Center
    ); // Scaffold
  }
}
```

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

Run | Debug | Profile
void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(home: TweenAnimationExample());
  }
}

class TweenAnimationExample extends StatefulWidget {
  @override
  _TweenAnimationExampleState createState() => _TweenAnimationExampleState();
}

class _TweenAnimationExampleState extends State<TweenAnimationExample>
    with SingleTickerProviderStateMixin {
  late final AnimationController _controller;
  late final Animation<Offset> _animation;

  @override
  void initState() {
    super.initState();
    _controller = AnimationController(
      duration: const Duration(seconds: 3),
      vsync: this,
    )..forward(); // AnimationController

    _animation = Tween<Offset>(
      begin: const Offset(-0.5, 0.0), // half the widget width to the left
      end: Offset.zero,               // back to original position
    ).animate(CurvedAnimation( // Tween
      parent: _controller,
      curve: Curves.easeInOut,
    ));
```

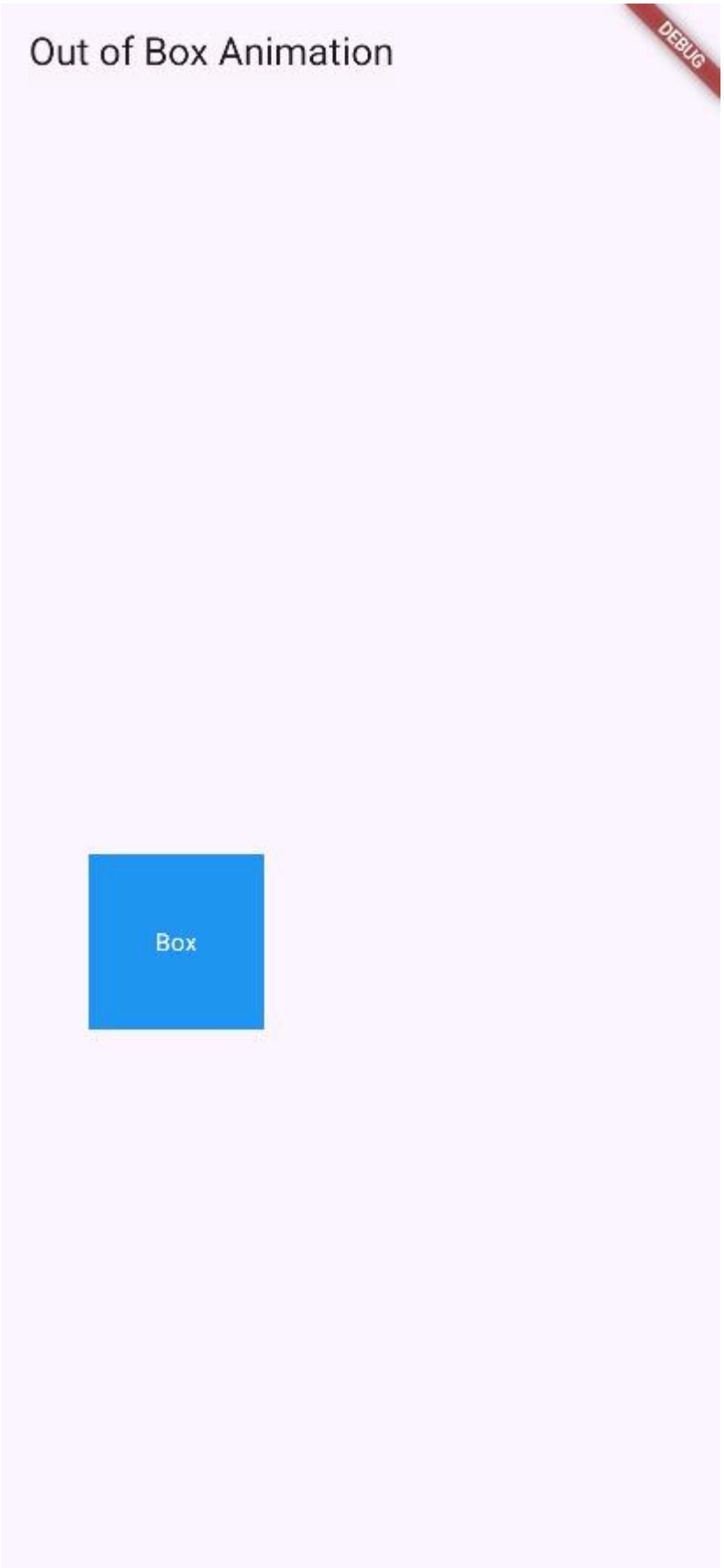

Tween Animation Example
DEBUG

```
class _OutOfBoxAnimationPageState extends State<OutOfBoxAnimationPage> {
  Widget build(BuildContext context) {
        title: Text('Out of Box Animation'),
      ), // AppBar
      body: Center(
        child: SizedBox(
          width: MediaQuery.of(context).size.width,
          height: 300, // Give some height for positioning
          child: GestureDetector(
            onTap: _moveOutOfBox,
            child: Stack(
              children: [
                AnimatedPositioned(
                  duration: Duration(seconds: 2),
                  left: _leftPosition,
                  top: 150.0,
                  child: Container(
                    width: 100,
                    height: 100,
                    color: Colors.blue,
                    child: Center(
                      child: Text(
                        'Box',
                        textAlign: TextAlign.center,
                        style: TextStyle(color: Colors.white),
                      ), // Text
                    ), // Center
                  ), // Container
                ), // AnimatedPositioned
              ],
            ), // Stack
          ), // GestureDetector
        ), // SizedBox
      ), // Center
    ); // Scaffold
  }
}
```

code Ln

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

Run | Debug | Profile
void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: OutOfBoxAnimationPage(),
    ); // MaterialApp
  }
}

class OutOfBoxAnimationPage extends StatefulWidget {
  @override
  _OutOfBoxAnimationPageState createState() => _OutOfBoxAnimationPageState();
}

class _OutOfBoxAnimationPageState extends State<OutOfBoxAnimationPage> {
  double _leftPosition = 50.0;
  bool _isOutOfBox = false;

  void _moveOutOfBox() {
    setState(() {
      _isOutOfBox = !_isOutOfBox;
      if (_isOutOfBox) {
        _leftPosition = MediaQuery.of(context).size.width;
      } else {
        _leftPosition = 50.0;
      }
    });
  }

  @overrideWidget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Out of Box Animation'),
```

Out of Box Animation
DEBUG

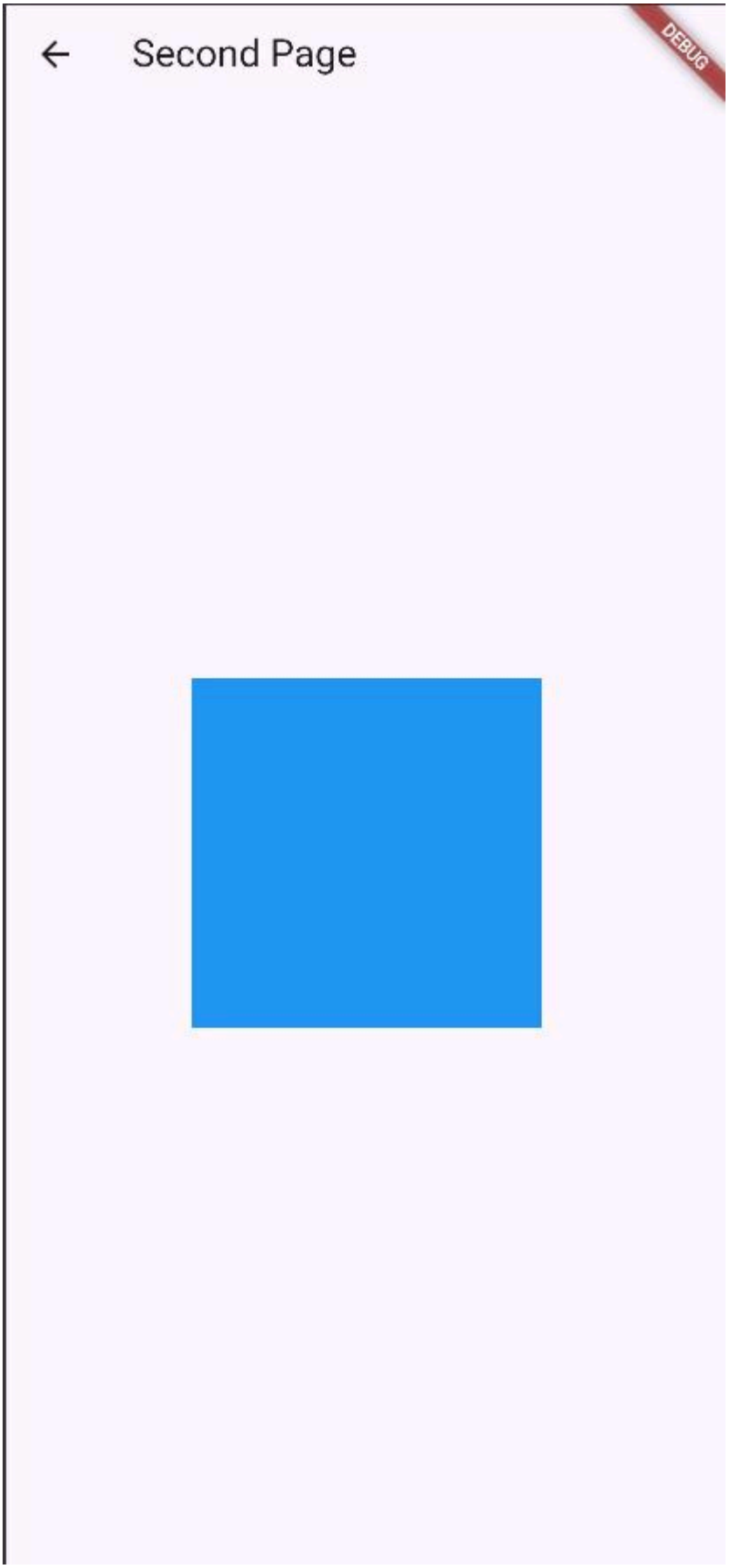

Out of Box Animation
DEBUG
Box

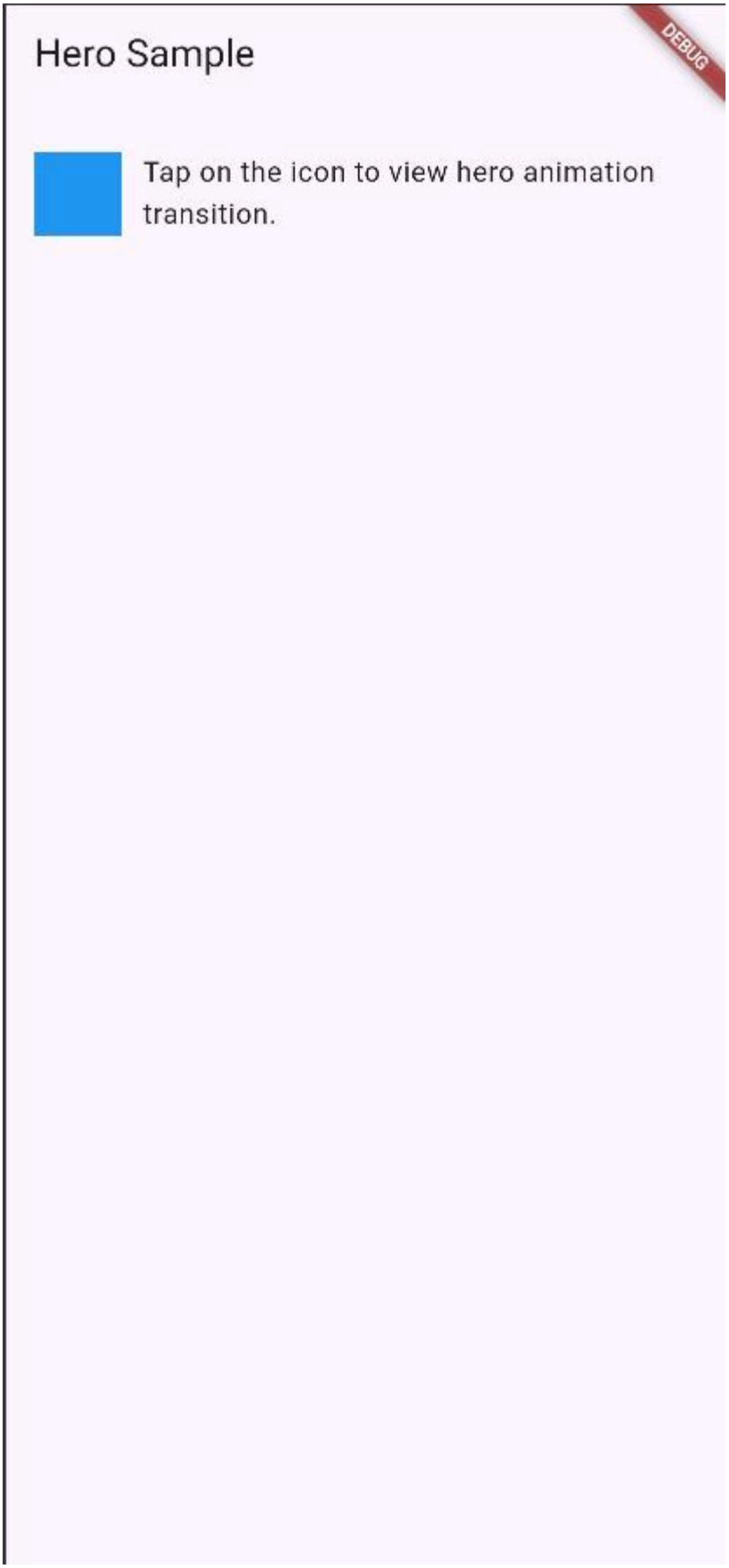
```
class HeroExample extends StatelessWidget {
  Widget build(BuildContext context) {
  }

  void _gotoDetailsPage(BuildContext context) {
    Navigator.of(context).push(
      MaterialPageRoute<void>(
        builder: (BuildContext context) => Scaffold(
          appBar: AppBar(title: const Text('Second Page')),
          body: Center(
            child: Hero(
              tag: 'hero-rectangle',
              child: Material(
                type: MaterialType.transparency,
                child: BoxWidget(size: const Size(200.0, 200.0)),
              ), // Material
            ), // Hero
          ), // Center
        ), // Scaffold
      ), // MaterialPageRoute
    );
  }
}

class BoxWidget extends StatelessWidget {
  const BoxWidget({super.key, required this.size});
  final Size size;

  @override
  Widget build(BuildContext context) {
    return Container(
      width: size.width,
      height: size.height,
      color: Colors.blue,
    );
  }
}
```

code

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

Run | Debug | Profile
void main() => runApp(const HeroApp());

class HeroApp extends StatelessWidget {
  const HeroApp({super.key});

  @override
  Widget build(BuildContext context) {
    return const MaterialApp(home: HeroExample());
  }
}

class HeroExample extends StatelessWidget {
  const HeroExample({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: const Text('Hero Sample')),
      body: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: <Widget>[
          const SizedBox(height: 20.0),
          ListTile(
            leading: Hero(
              tag: 'hero-rectangle',
              child: Material(
                type: MaterialType.transparency,
                child: BoxWidget(size: const Size(50.0, 50.0)),
              ), // Material
            ), // Hero
            onTap: () => _gotoDetailsPage(context),
            title: const Text(
                'Tap on the icon to view hero animation transition.'), // Text
          ), // ListTile
        ], // <Widget>[]
      ), // Column
    ); // Scaffold
```

code


Second Page
DEBUG


Hero Sample
DEBUG
Tap on the icon to view hero animation transition.

```
class _AnimatedCrossFadePageState extends State<AnimatedCrossFadePage> {
  Widget build(BuildContext context) {
                child: Text(
                  'Hello, Flutter!',
                  style: TextStyle(color: Colors.white, fontSize: 20),
                ), // Text
              ), // Center
            ), // Container
            secondChild: Container(
              color: Colors.green,
              width: 200,
              height: 200,
              child: Center(
                child: Image.network(
                  'https://flutter.dev/images/flutter-logo-sharing.png',
                  width: 100,
                  height: 100,
                  errorBuilder: (BuildContext context, Object error, StackTrace? stackTrace) {
                    return Icon(Icons.error, size: 50, color: Colors.red);
                  },
                ), // Image.network
              ), // Center
            ), // Container
            crossFadeState:
                _showText ? CrossFadeState.showFirst : CrossFadeState.showSecond,
            duration: Duration(seconds: 1),
          ), // AnimatedCrossFade
          SizedBox(height: 20),
          ElevatedButton(
            onPressed: () => setState(() => _showText = !_showText),
            child: Text('Toggle'),
          ), // ElevatedButton
        ],
      ), // Column
    ), // Center
  ); // Scaffold
  }
}
```

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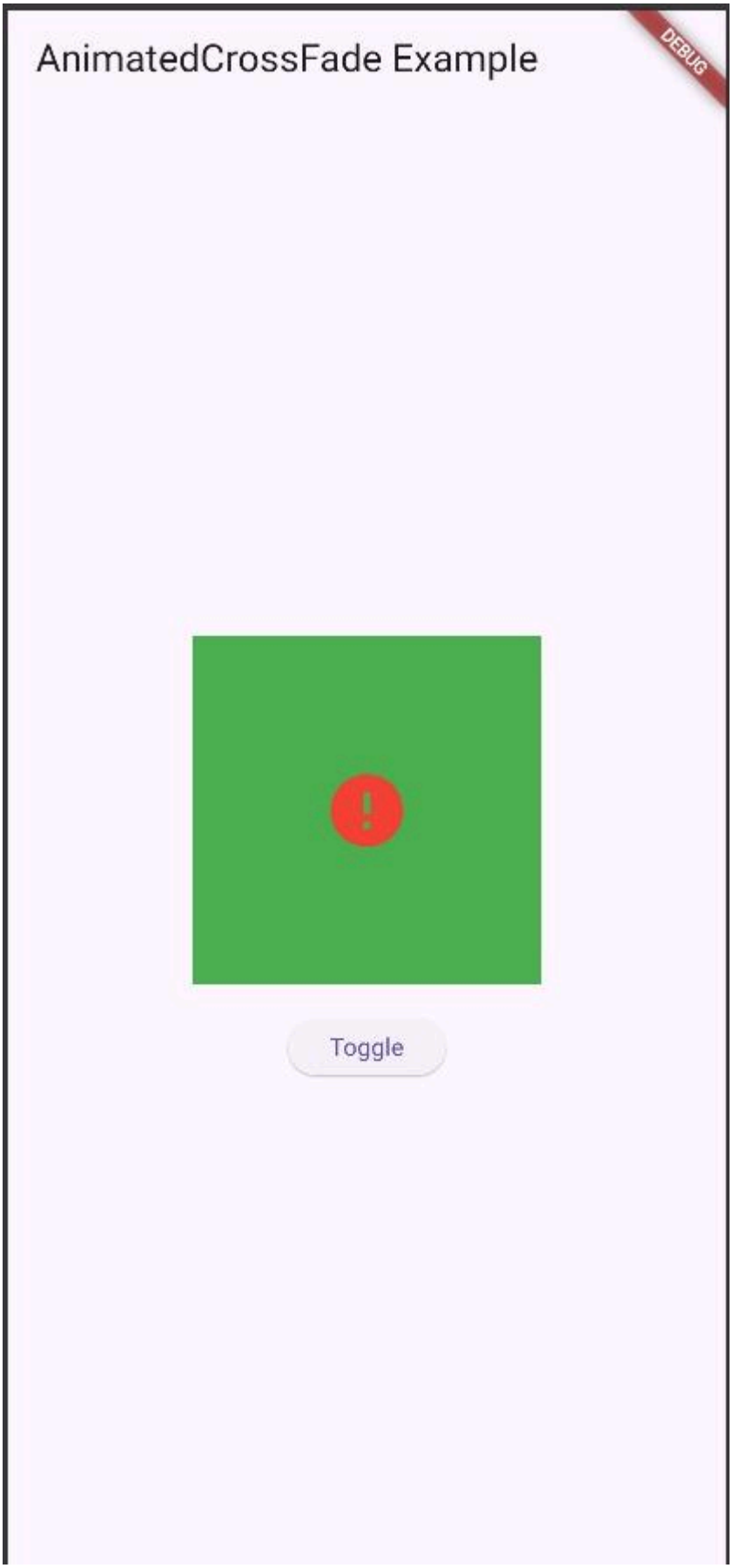
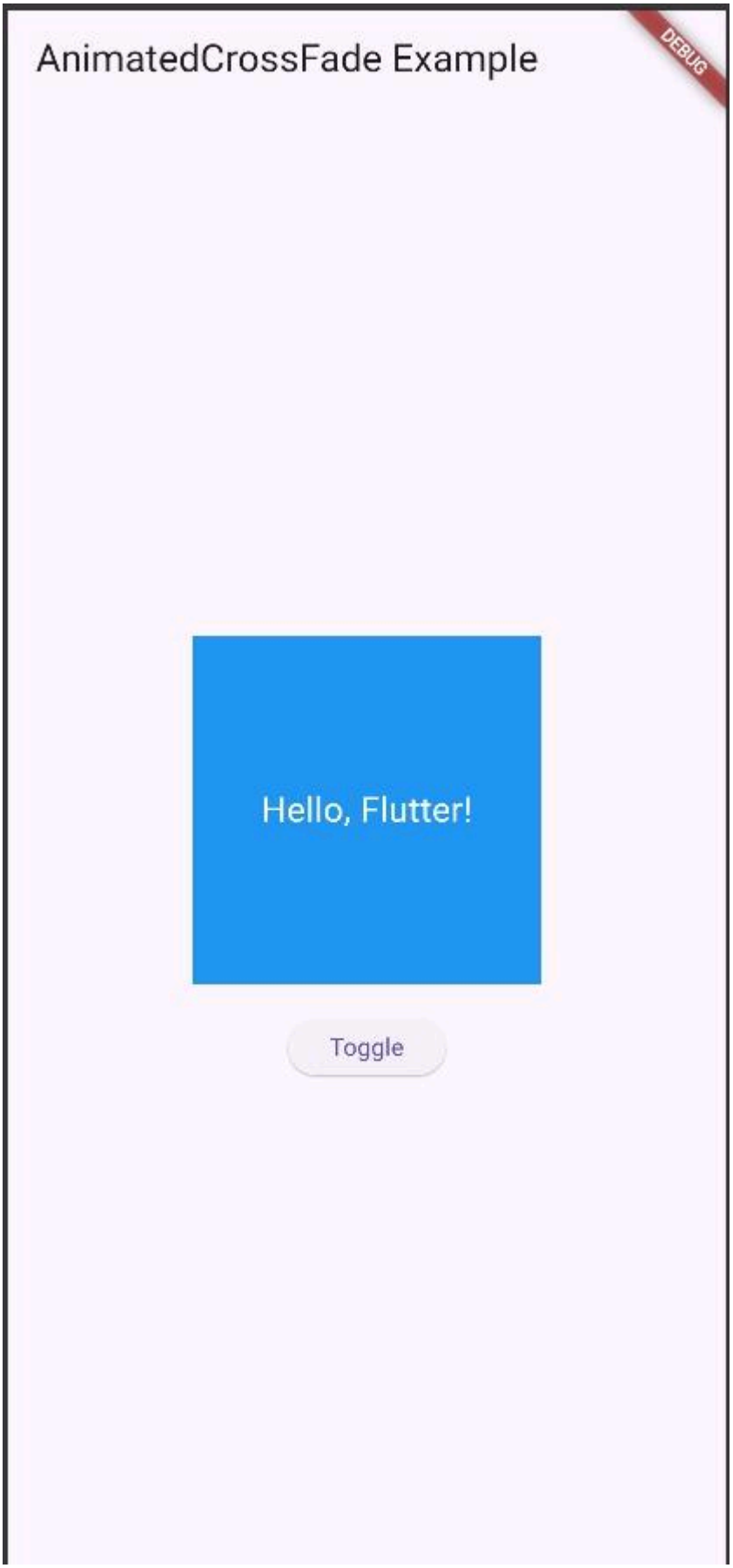
```dart
import 'package:flutter/material.dart';

Run | Debug | Profile
void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'AnimatedCrossFade Example',
      theme: ThemeData(primarySwatch: Colors.blue),
      home: AnimatedCrossFadePage(),
    ); // MaterialApp
  }
}

class AnimatedCrossFadePage extends StatefulWidget {
  @override
  _AnimatedCrossFadePageState createState() => _AnimatedCrossFadePageState();
}

class _AnimatedCrossFadePageState extends State<AnimatedCrossFadePage> {
  bool _showText = true;

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('AnimatedCrossFade Example')),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            AnimatedCrossFade(
              firstChild: Container(
                color: Colors.blue,
                width: 200,
                height: 200,
                child: Center(
```

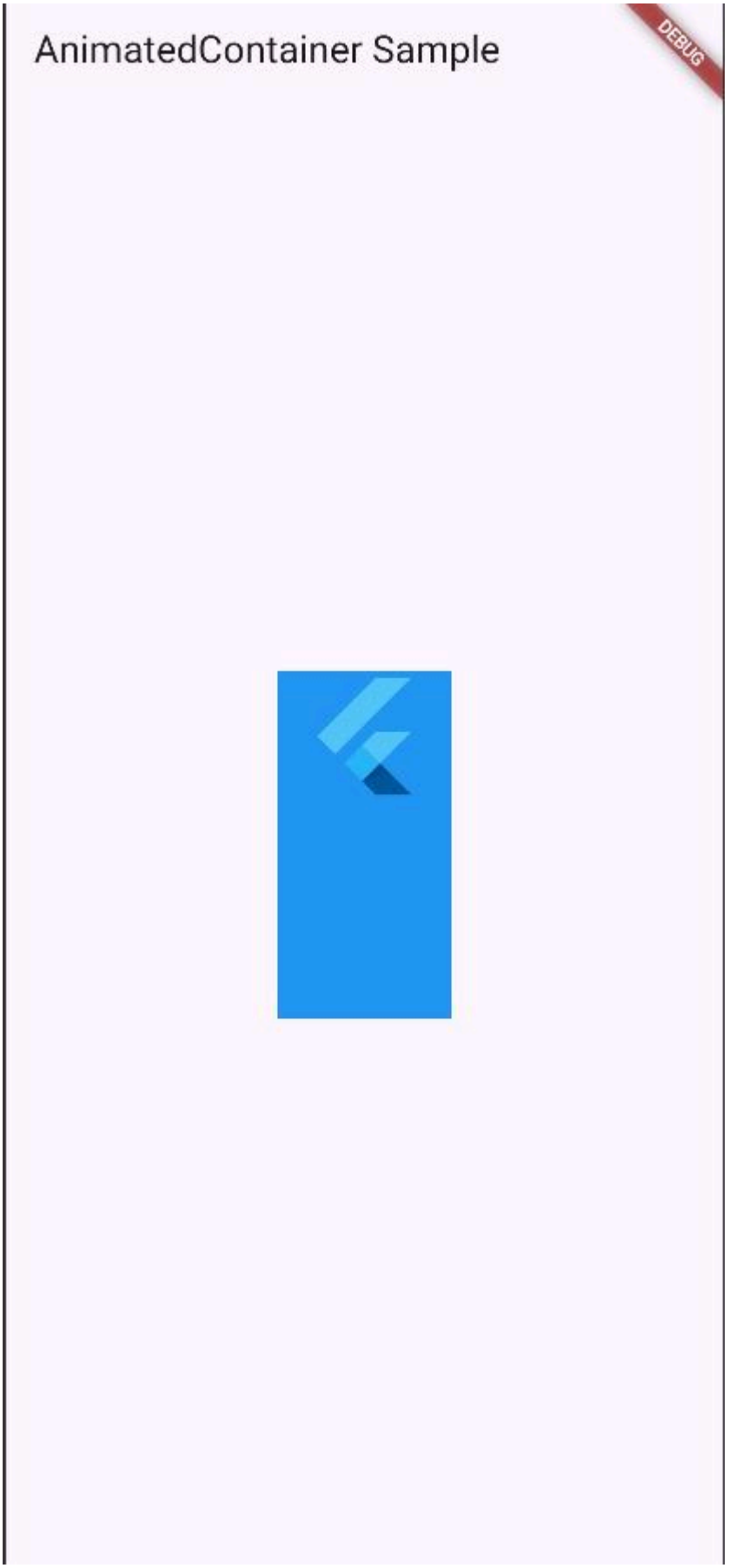
l code


AnimatedCrossFade Example
DEBUG
Toggle


AnimatedCrossFade Example
DEBUG
Hello, Flutter!
Toggle

```
class _AnimatedContainerExampleState extends State<AnimatedContainerExample> {
  Widget build(BuildContext context) {
      child: Center(
        child: AnimatedContainer(
          width: selected ? 200.0 : 100.0,
          height: selected ? 100.0 : 200.0,
          color: selected ? Colors.red : Colors.blue,
          alignment:
              selected ? Alignment.center : AlignmentDirectional.topCenter,
          duration: const Duration(seconds: 2),
          curve: Curves.fastOutSlowIn,
          child: const FlutterLogo(size: 75),
        ), // AnimatedContainer
      ), // Center
    ); // GestureDetector
  }
}
```

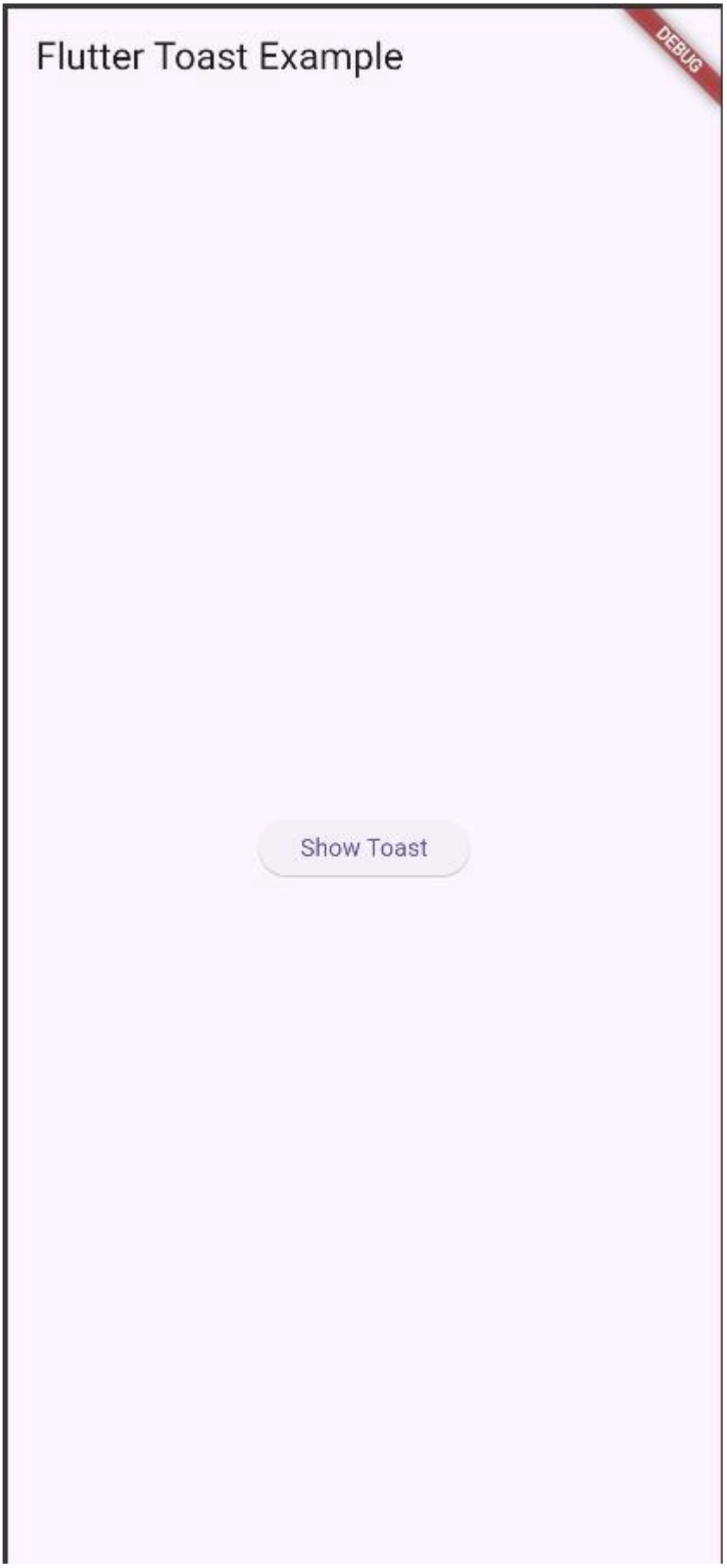
```dart
import 'package:flutter/material.dart';

Run | Debug | Profile
void main() => runApp(const AnimatedContainerExampleApp());

class AnimatedContainerExampleApp extends StatelessWidget {
  const AnimatedContainerExampleApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(title: const Text('AnimatedContainer Sample')),
        body: const AnimatedContainerExample(),
      ), // Scaffold
    ); // MaterialApp
  }
}

class AnimatedContainerExample extends StatefulWidget {
  const AnimatedContainerExample({super.key});

  @override
  State<AnimatedContainerExample> createState() =>
      _AnimatedContainerExampleState();
}

class _AnimatedContainerExampleState extends State<AnimatedContainerExample> {
  bool selected = false;

  @override
  Widget build(BuildContext context) {
    return GestureDetector(
      onTap: () {
        setState(() {
          selected = !selected;
        });
      },
      child: Center(
        child: AnimatedContainer(
```


AnimatedContainer Sample
DEBUG

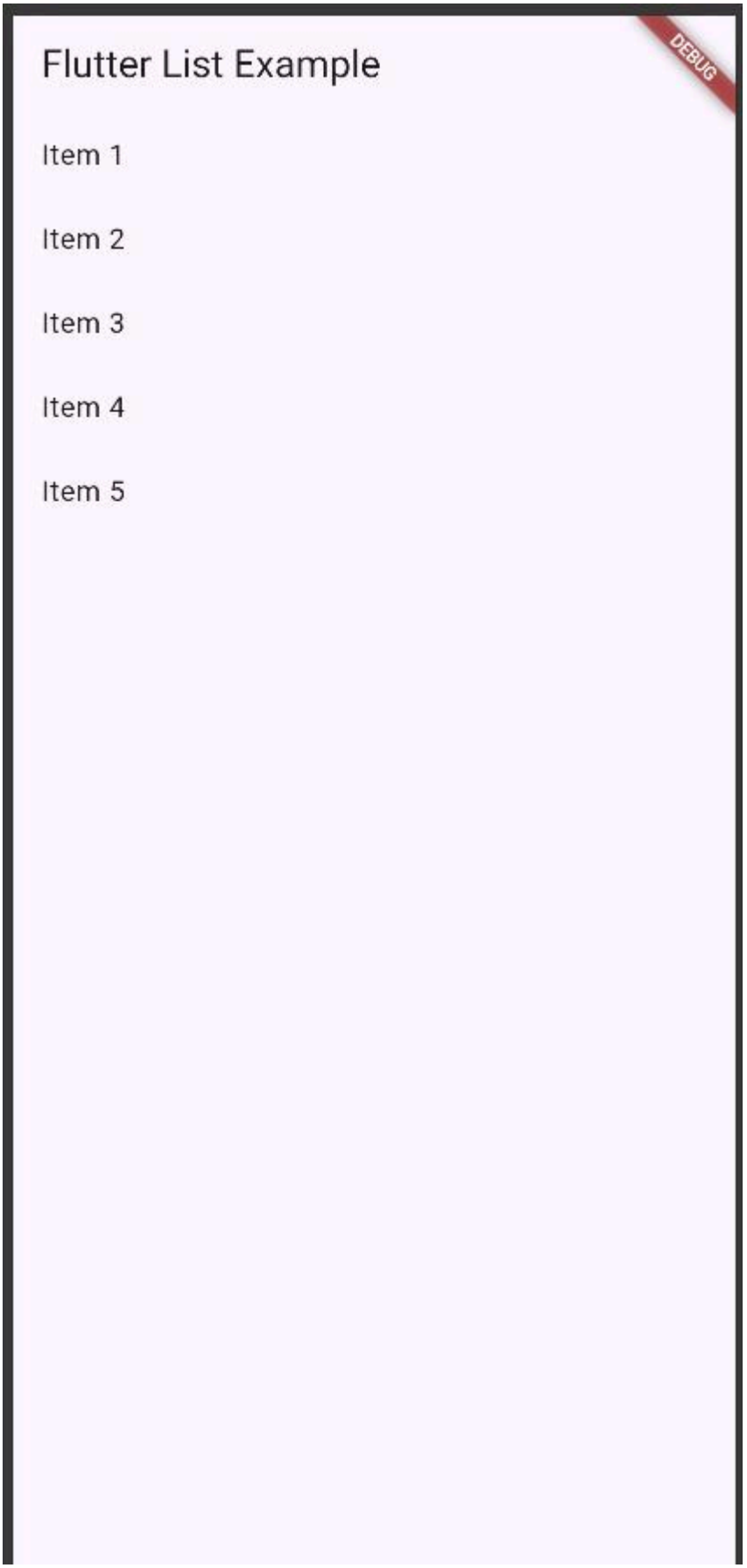
```dart
import 'package:flutter/material.dart';

Run | Debug | Profile
void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      theme: ThemeData(
        scaffoldBackgroundColor: Colors.black, // Set background color to black
        primaryColor: Colors.yellow, // Set text color to yellow
      ), // ThemeData
      home: MyHomePage(),
    ); // MaterialApp
  }
}

class MyHomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Flutter Theme Example'),
      ), // AppBar
      body: Center(
        child: Text(
          'Welcome to Flutter Themes',
          style: TextStyle(
            fontSize: 24,
            color: Colors.yellow, // Set text color explicitly
          ), // TextStyle
        ), // Text
      ), // Center
    ); // Scaffold
  }
}
```

overall code Ln 38, Col

Flutter Theme Example
DEBUG
Welcome to Flutter Themes

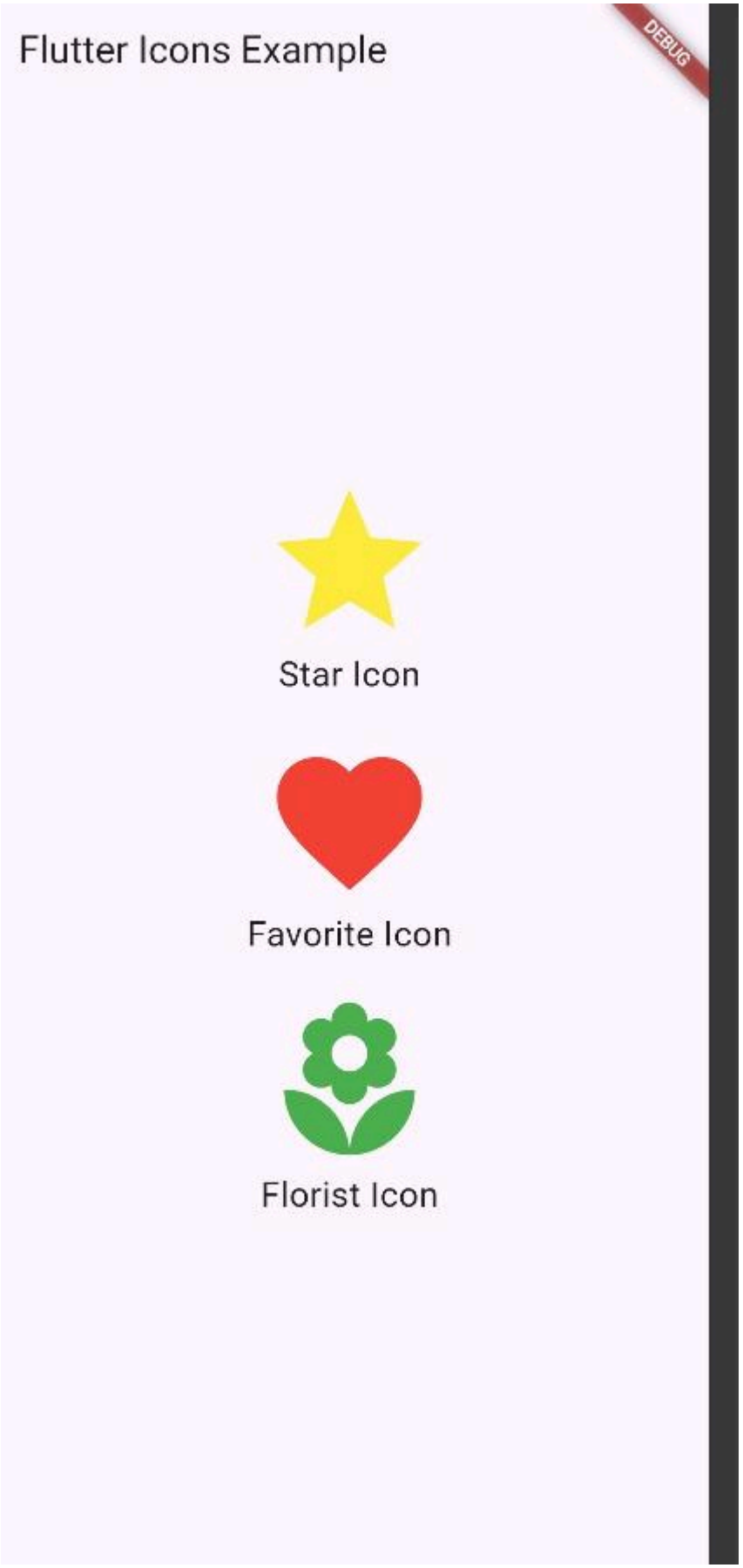

Flutter Toast Example
DEBUG
Show Toast

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

Run | Debug | Profile
void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: MyHomePage(),
    ); // MaterialApp
  }
}

class MyHomePage extends StatelessWidget {
  final List<String> items = [
    'Item 1',
    'Item 2',
    'Item 3',
    'Item 4',
    'Item 5',
  ];

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Flutter List Example"),
      ), // AppBar
      body: ListView.builder(
        itemCount: items.length,
        itemBuilder: (BuildContext context, int index) {
          return ListTile(
            title: Text(items[index]),
          ); // ListTile
        },
      ), // ListView.builder
    ); // Scaffold
  }
}
```


Flutter List Example
DEBUG
Item 1
Item 2
Item 3
Item 4
Item 5

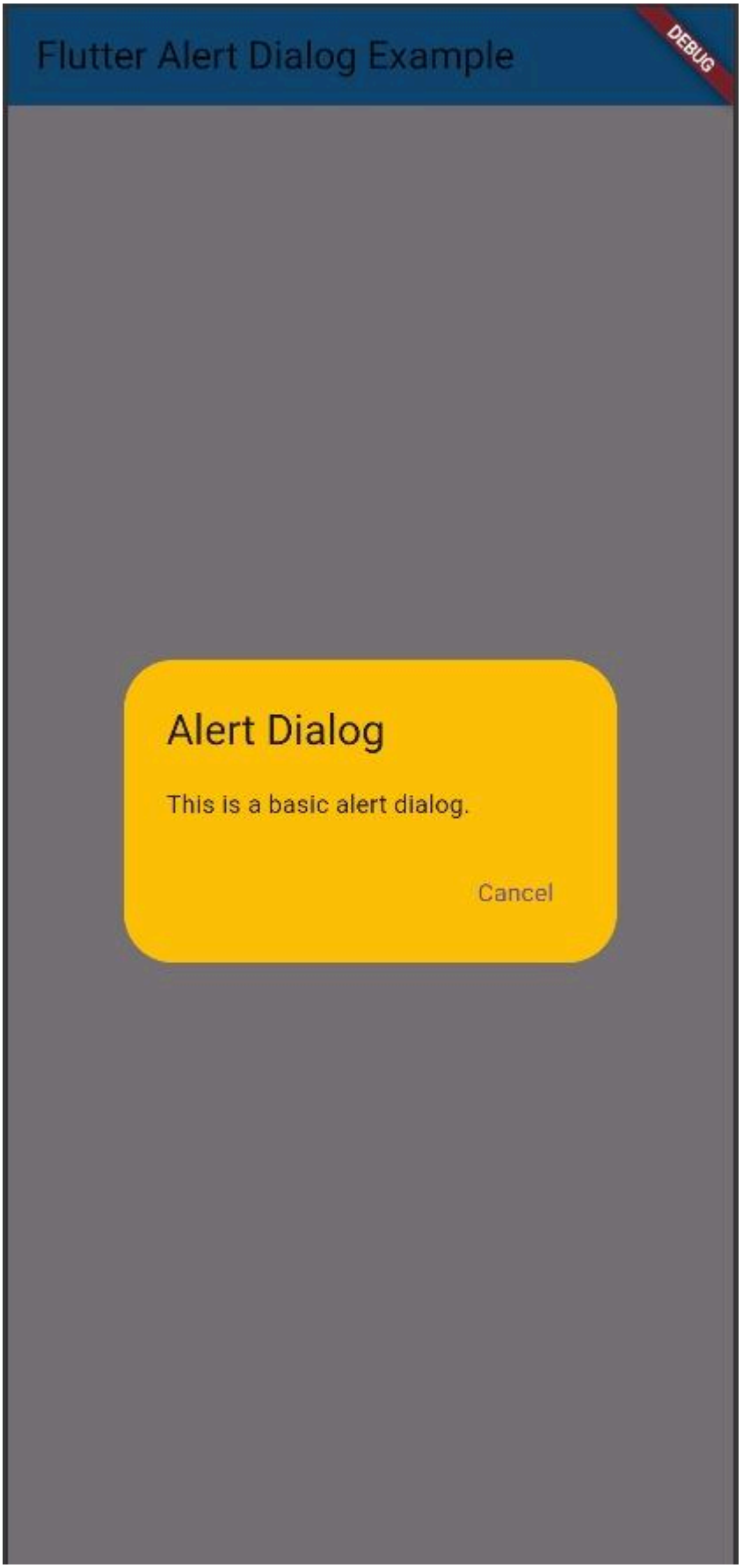
```dart
class MyHomePage extends StatelessWidget {
  Widget build(BuildContext context) {
            children: <Widget>[
              Icon(
                Icons.star,
                size: 100.0,
                color: Colors.yellow,
              ), // Icon
              Text("Star Icon", style: TextStyle(fontSize: 20.0)),
              SizedBox(height: 20.0),
              Icon(
                Icons.favorite,
                size: 100.0,
                color: Colors.red,
              ), // Icon
              Text("Favorite Icon", style: TextStyle(fontSize: 20.0)),
              SizedBox(height: 20.0),
              Icon(
                Icons.local_florist,
                size: 100.0,
                color: Colors.green,
              ), // Icon
              Text("Florist Icon", style: TextStyle(fontSize: 20.0)),
            ], // <Widget>[]
          ), // Column
        ), // Center
      ); // Scaffold
    }
  }
```

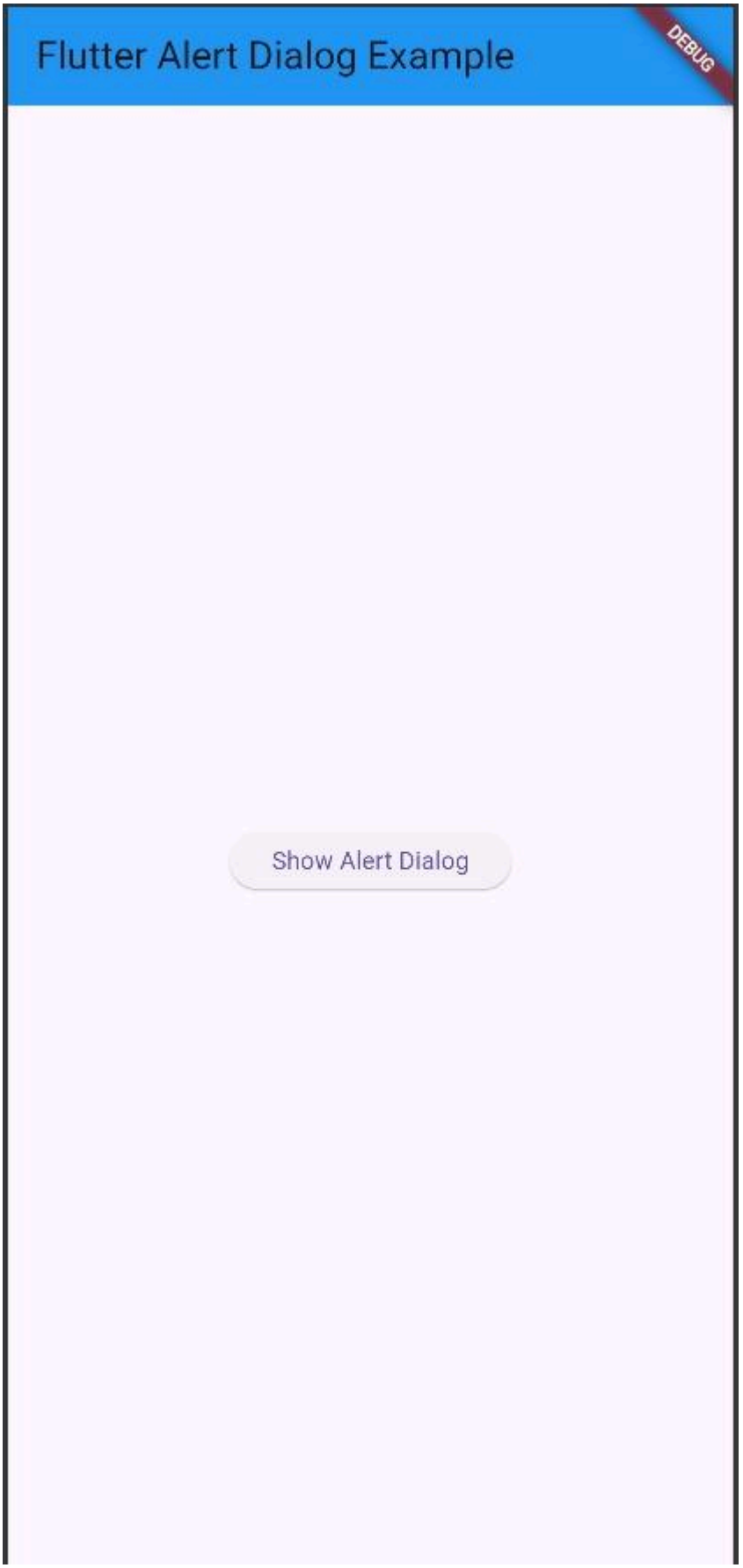
```dart
import 'package:flutter/material.dart';

Run | Debug | Profile
void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: MyHomePage(),
    ); // MaterialApp
  }
}

class MyHomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Flutter Icons Example"),
      ), // AppBar
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Icon(
              Icons.star,
              size: 100.0,
              color: Colors.yellow,
            ), // Icon
            Text("Star Icon", style: TextStyle(fontSize: 20.0)),
            SizedBox(height: 20.0),
            Icon(
              Icons.favorite,
              size: 100.0,
              color: Colors.red,
            ), // Icon
            Text("Favorite Icon", style: TextStyle(fontSize: 20.0)),
            SizedBox(height: 20.0),
            Icon(
```

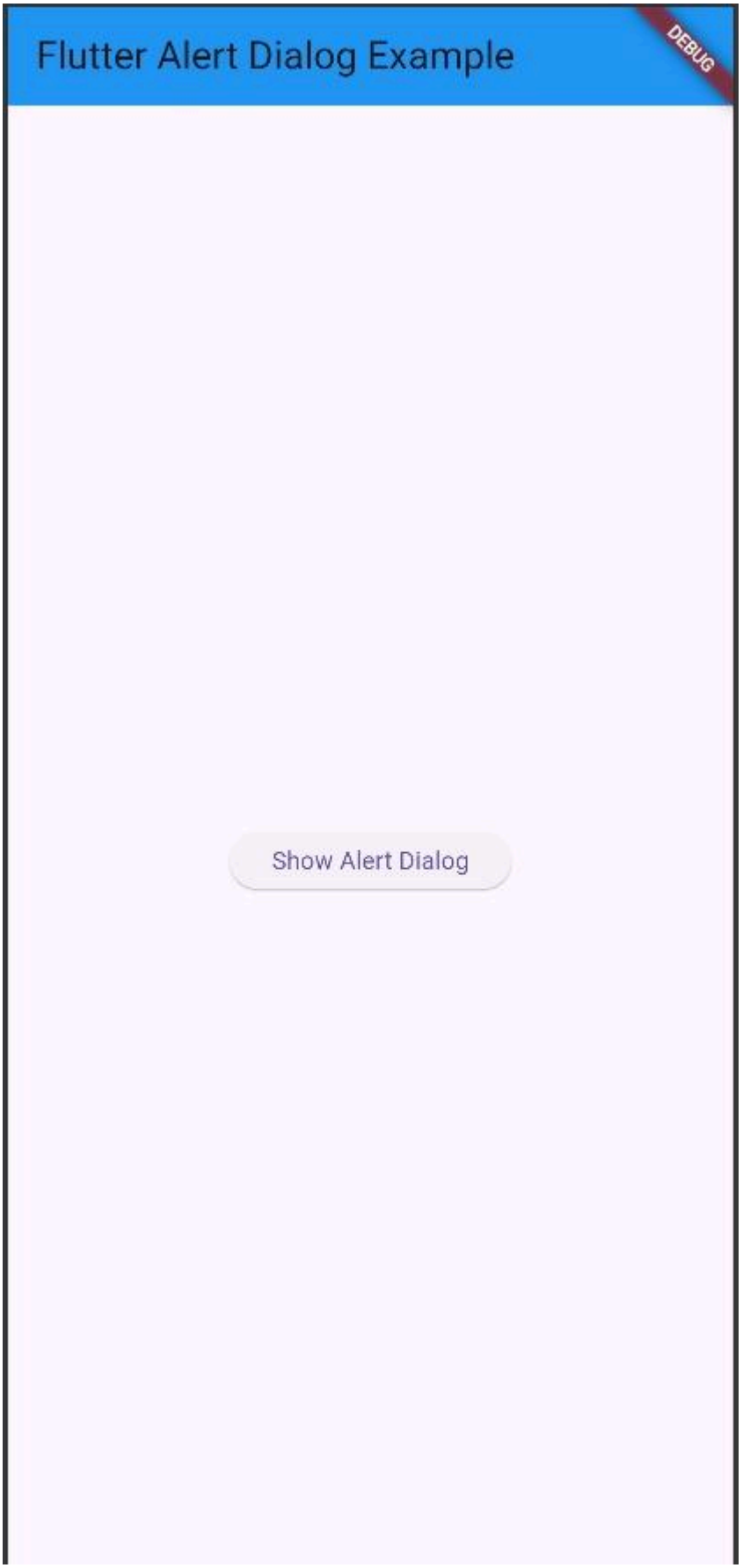

Flutter Icons Example
DEBUG
Star Icon
Favorite Icon
Florist Icon

```
39        appBar: AppBar(
40          title: Text("Flutter Alert Dialog Example"),
41          backgroundColor: Colors.blue,
42        ), // AppBar
43        body: Center(
44          child: ElevatedButton(
45            onPressed: () {
46              _showAlertDialog(context);
47            },
48
49            child: Text("Show Alert Dialog"),
50
51          ), // ElevatedButton
52        ), // Center
53      ); // Scaffold
54    }
55  }
```

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

Run | Debug | Profile
void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: MyHomePage(),
    ); // MaterialApp
  }
}

class MyHomePage extends StatelessWidget {
  void _showAlertDialog(BuildContext context) {
    showDialog(
      context: context,
      builder: (BuildContext context) {
        return AlertDialog(
          title: Text("Alert Dialog"),
          content: Text("This is a basic alert dialog."),
          backgroundColor: Colors.amber,
          actions: <Widget>[
            TextButton(
              child: Text("Cancel"),
              onPressed: () {
                Navigator.of(context).pop();
              },
            ), // TextButton
          ], // <Widget>[]
        ); // AlertDialog
      },
    );
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
```


Flutter Alert Dialog Example
DEBUG
Alert Dialog
This is a basic alert dialog.
Cancel


Flutter Alert Dialog Example
DEBUG
Show Alert Dialog


Flutter Alert Dialog Example
DEBUG
Show Alert Dialog

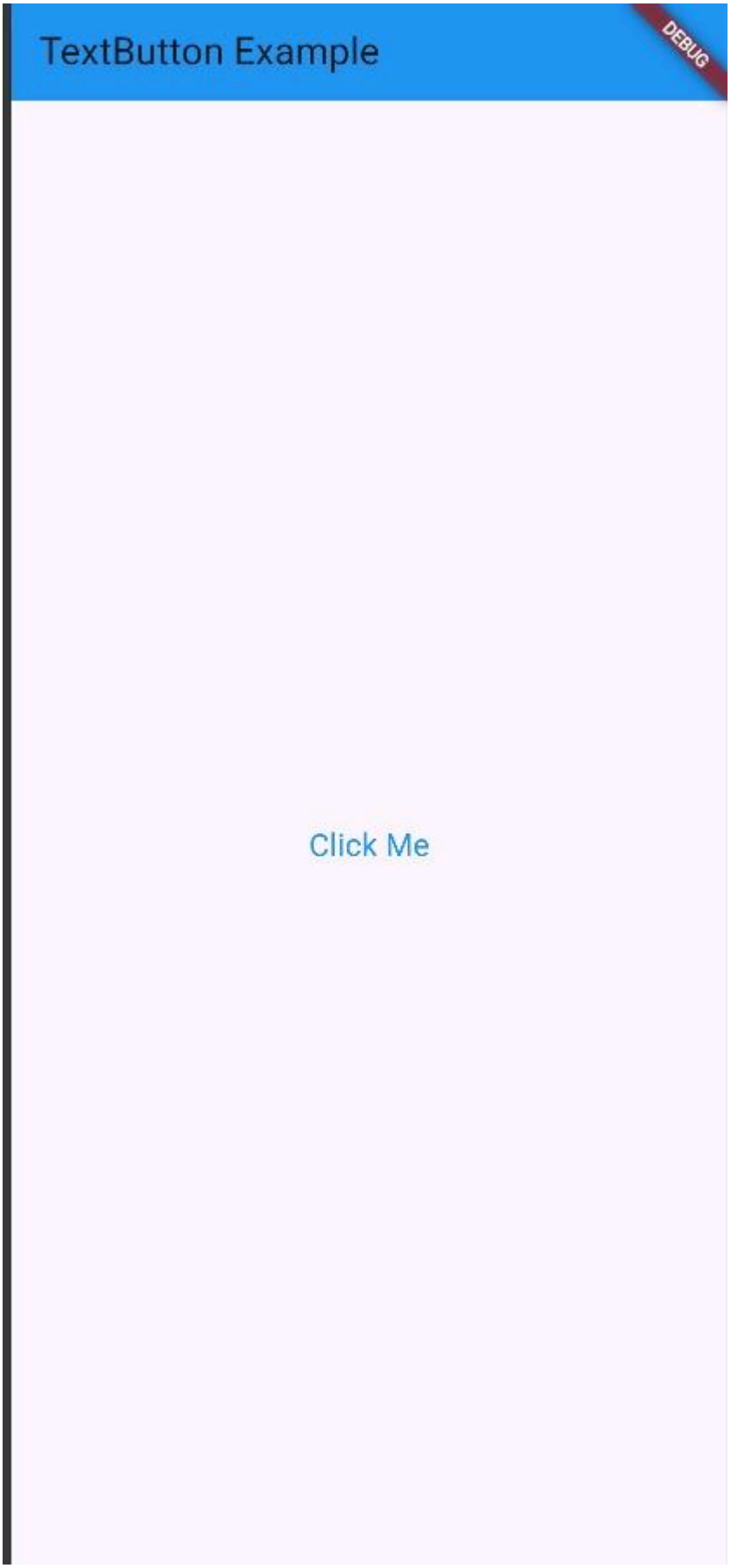
PROBLEMS 36 OUTPUT DEBUG CONSOLE TERMINAL PORTS SONARQUBE

```
This app is linked to the debug service: ws://127.0.0.1:42467/eRHoD-0ZplY=/ws
Debug service listening on ws://127.0.0.1:42467/eRHoD-0ZplY=/ws

Flutter run key commands.
R Hot restart.
h List all available interactive commands.
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).

A Dart VM Service on Chrome is available at: http://127.0.0.1:42467/eRHoD-0ZplY=
The Flutter DevTools debugger and profiler on Chrome is available at: http://127.0.0.1:9101?uri=http://127.0.0.1:42467/eRHoD-0ZplY=
button pressed
```

main.dart > MyApp > build

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

Run | Debug | Profile
void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('TextButton Example'),
          backgroundColor: Colors.blue,
        ), // AppBar
        body: Center(
          child: TextButton(
            onPressed: () {
              print('button pressed');
            },
            // Add a child widget here, for example, a Text widget
            child: Text(
              'Click Me',
              style: TextStyle(
                fontSize: 18,
                color: Colors.blue,
              ), // TextStyle
            ), // Text
          ), // TextButton
        ), // Center
      ), // Scaffold
    ); // MaterialApp
  }
}
```

cus: overall code

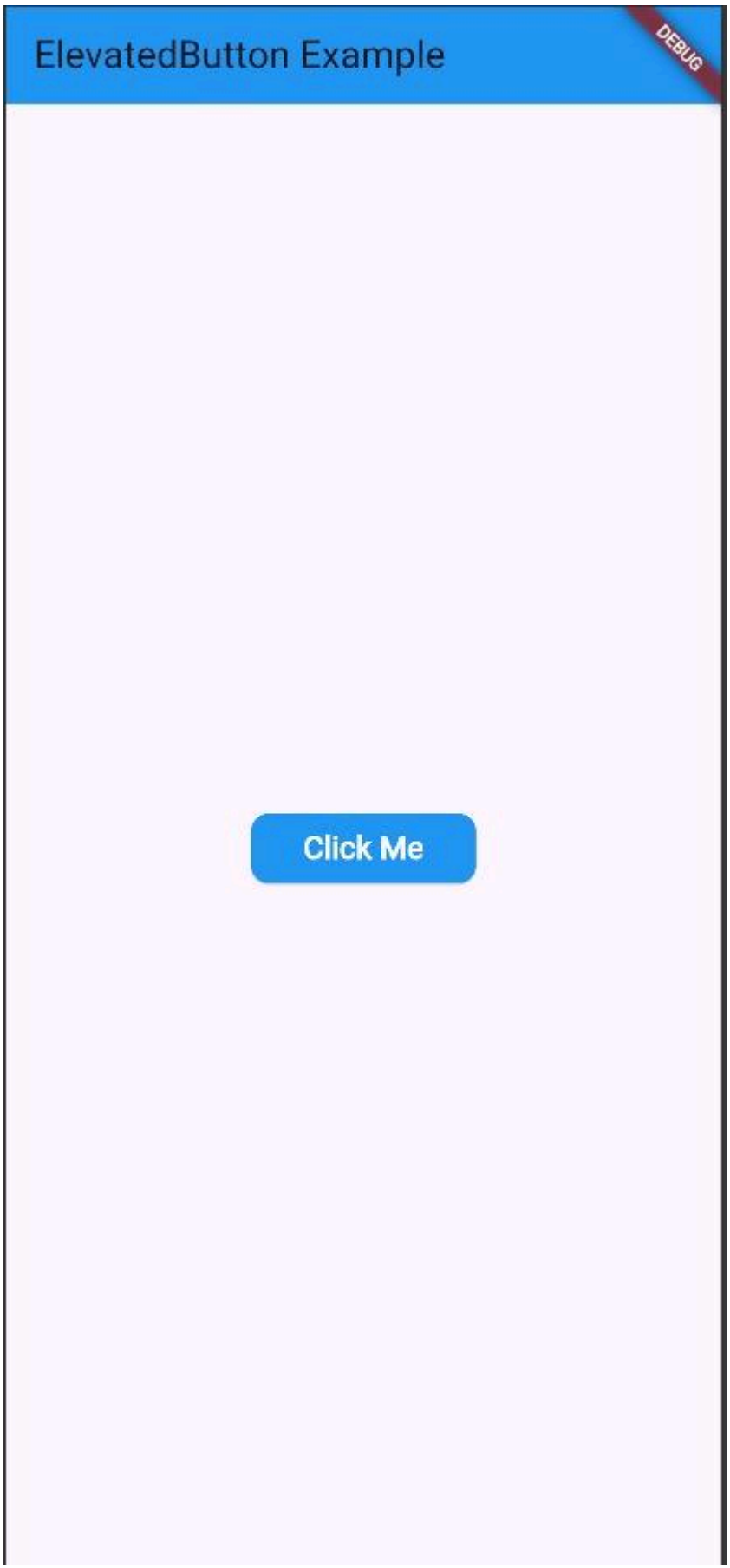

TextButton Example
DEBUG
Click Me

```
5   class ElevatedButtonExampleApp extends StatelessWidget {
7     Widget build(BuildContext context) {
22                foregroundColor: Colors.white,
23
24                padding: EdgeInsets.symmetric(horizontal: 30, vertical: 15),
25
26                shape: RoundedRectangleBorder(
27                  borderRadius: BorderRadius.circular(10),
28                ), // RoundedRectangleBorder
29              ),
30              child: Text(
31                'Click Me',
32                style: TextStyle(
33                  fontSize: 18,
34                  fontWeight: FontWeight.bold,
35                ), // TextStyle
36              ), // Text
37            ), // ElevatedButton
38          ), // Center
39        ), // Scaffold
40      ); // MaterialApp
41    }
42  }
```

PROBLEMS 36 OUTPUT DEBUG CONSOLE TERMINAL PORTS SONARQUBE

```
This app is linked to the debug service: ws://127.0.0.1:44363/p6k4Dc5is1E=/ws
Debug service listening on ws://127.0.0.1:44363/p6k4Dc5is1E=/ws

Flutter run key commands.
R Hot restart.
h List all available interactive commands.
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).

A Dart VM Service on Chrome is available at: http://127.0.0.1:44363/p6k4Dc5is1E=
The Flutter DevTools debugger and profiler on Chrome is available at: http://127.0.0.1:9102?uri=http://127.0.0.1:44363/p6k4Dc5is1E=
Button was clicked!
```

```dart
import 'package:flutter/material.dart';
Run | Debug | Profile
void main() {
runApp(ElevatedButtonExampleApp());
}
class ElevatedButtonExampleApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          backgroundColor: Colors.blue,
          title: Text('ElevatedButton Example'),
        ), // AppBar
        body: Center(
          child: ElevatedButton(
            onPressed: () {
              print('Button was clicked!');
            },
            style: ElevatedButton.styleFrom(
              backgroundColor: Colors.blue,

              foregroundColor: Colors.white,

              padding: EdgeInsets.symmetric(horizontal: 30, vertical: 15),

              shape: RoundedRectangleBorder(
                borderRadius: BorderRadius.circular(10),
              ), // RoundedRectangleBorder
            ),
            child: Text(
              'Click Me',
              style: TextStyle(
                fontSize: 18,
                fontWeight: FontWeight.bold,
              ), // TextStyle
            ), // Text
          ), // ElevatedButton
        ), // Center
      ), // Scaffold
```


ElevatedButton Example
DEBUG
Click Me

```
28                Text(
29                  'Dr.M.S.Ramaiah',
30                  style: TextStyle(
31                    fontSize: 24,
32                    fontWeight: FontWeight.bold,
33                  ), // TextStyle
34                ), // Text
35                SizedBox(height: 8),
36                Text(
37                  'Founder Chairman',
38                  style: TextStyle(
39                    fontSize: 12,
40                    color: Colors.grey[700],
41                  ), // TextStyle
42                ), // Text
43                SizedBox(height: 12),
44                Text(
45                  'Mathikere Sampige Ramaiah was born on 20 April 1922, in Madhugiri to Sampangappa and Narasamma',
46                  style: TextStyle(
47                    fontSize: 16,
48                  ), // TextStyle
49                  textAlign: TextAlign.center,
50                ), // Text
51              ],
52            ), // Column
53          ), // Padding
54        ), // Center
55      ), // Scaffold
56    ); // MaterialApp
57  }
58 }
```

```
1  import 'package:flutter/material.dart';
2
   Run | Debug | Profile
3  void main() {
4    runApp(RamaiahProfileApp());
5  }
6
7  class RamaiahProfileApp extends StatelessWidget {
8    @override
9    Widget build(BuildContext context) {
10     return MaterialApp(
11       home: Scaffold(
12         appBar: AppBar(
13           backgroundColor: Colors.blue,
14           title: Text('Ramaih Chairman Profile'),
15         ), // AppBar
16         body: Center(
17           child: Padding(
18             padding: const EdgeInsets.symmetric(horizontal: 20.0),
19             child: Column(
20               mainAxisAlignment: MainAxisAlignment.center,
21               children: [
22                 CircleAvatar(
23                   radius: 80,
24                   // Use AssetImage to load the image from your assets folder
25                   backgroundImage: AssetImage('/home/cselab3/Downloads/image.jpeg'),
26                 ), // CircleAvatar
27                 SizedBox(height: 20),
28                 Text(
29                   'Dr.M.S.Ramaiah',
30                   style: TextStyle(
31                     fontSize: 24,
32                     fontWeight: FontWeight.bold,
33                   ), // TextStyle
34                 ), // Text
35                 SizedBox(height: 8),
36                 Text(
37                   'Founder Chairman',
38                   style: TextStyle(
39                     fontSize: 12,
```

: overall code Ln 25, Col 82 Spac

Ramaih Chairman Profile

DEBUG

Dr.M.S.Ramaiah

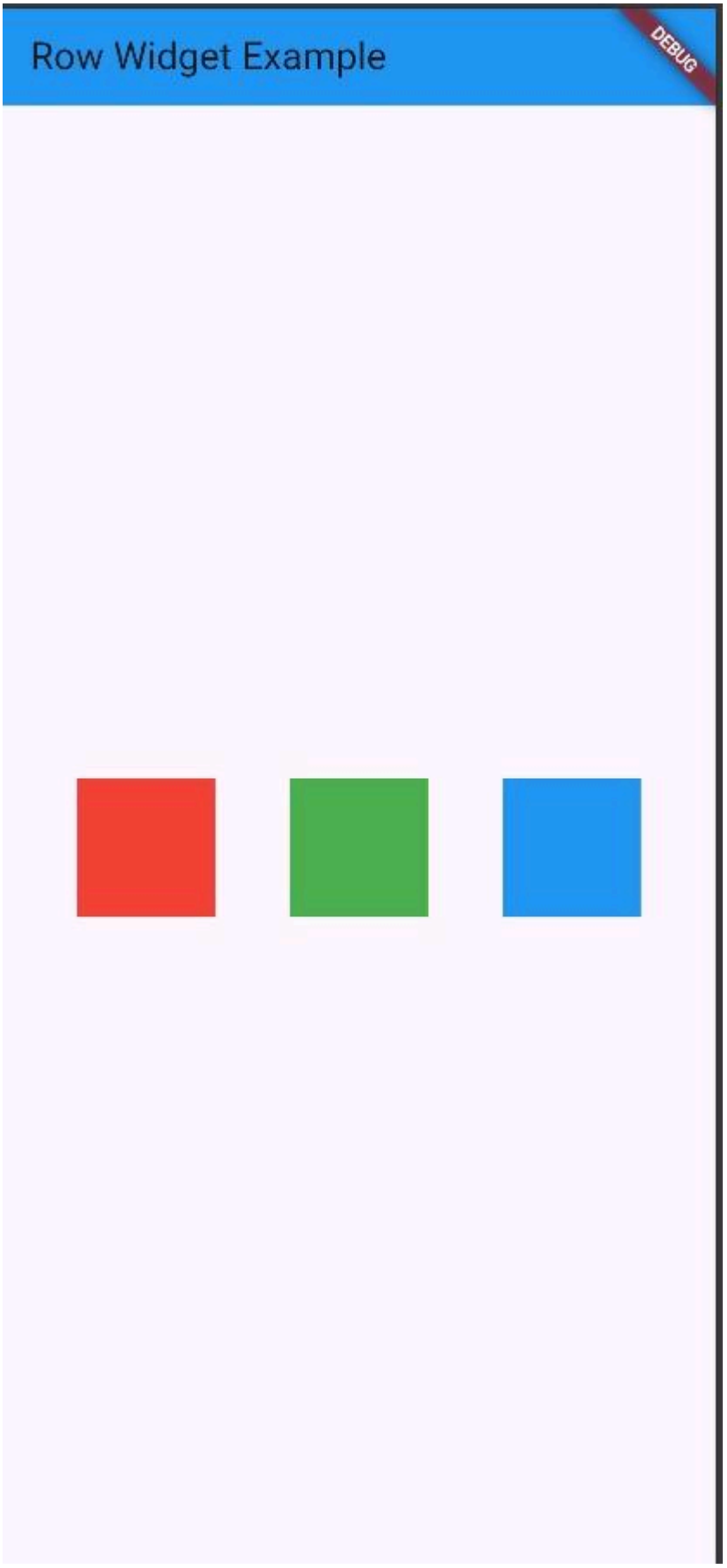
Founder Chairman

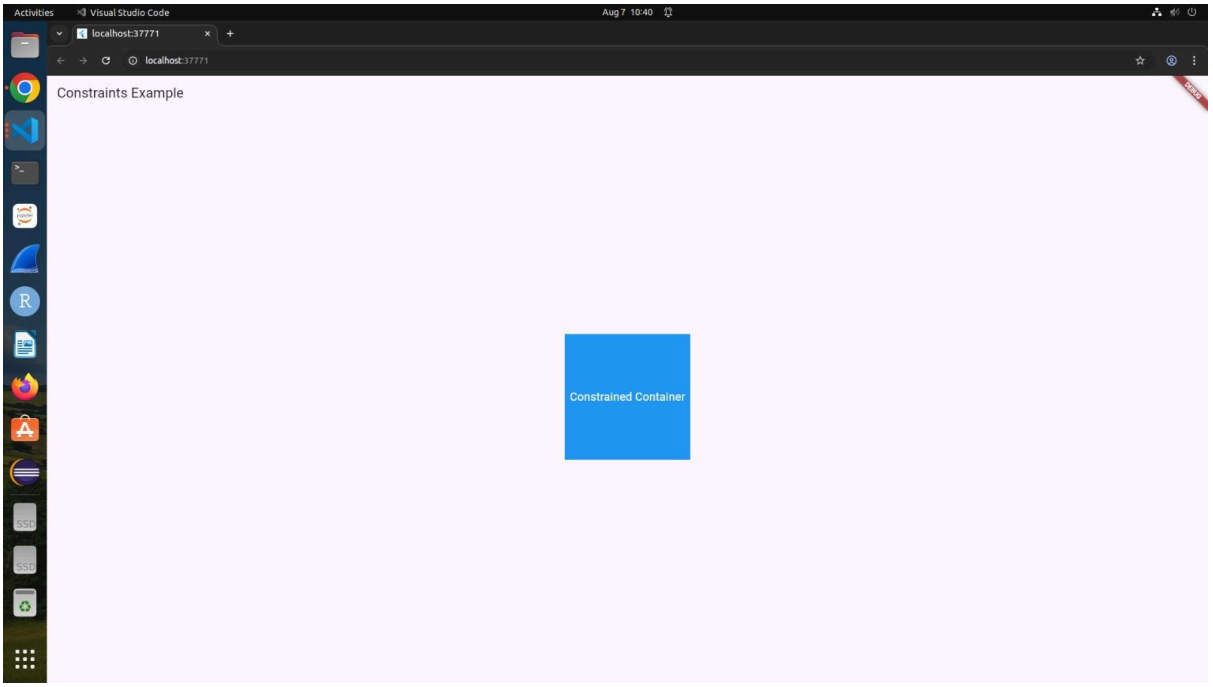
Mathikere Sampige Ramaiah was born on 20 April 1922, in Madhugiri to Sampangappa and Narasamma

main.dart > ...

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

Run | Debug | Profile
void main() {
  runApp(ColorBoxesApp());
}

class ColorBoxesApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          backgroundColor: Colors.blue,
          title: Text('Row Widget Example'),
        ), // AppBar
        body: Center(
          child: Row(
            mainAxisAlignment: MainAxisAlignment.spaceEvenly,
            children: [
              Container(
                width: 80,
                height: 80,
                color: Colors.red,
              ), // Container
              Container(
                width: 80,
                height: 80,
                color: Colors.green,
              ), // Container
              Container(
                width: 80,
                height: 80,
                color: Colors.blue,
              ), // Container
            ],
          ), // Row
        ), // Center
      ), // Scaffold
    ); // MaterialApp
```

ll code


Row Widget Example
DEBUG


Activities
Visual Studio Code
Aug 7 10:40
localhost:37771
localhost:37771
Constraints Example
DEBUG
Constrained Container

```
void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('Constraints Example'),
        ), // AppBar
        body: Center(
          child: Container(
            constraints: BoxConstraints(
              minWidth: 100,
              maxWidth: 200,
              minHeight: 100,
              maxHeight: 200,
            ), // BoxConstraints
            color: Colors.blue,
            child: Center(
              child: Text(
                'Constrained Container',
                style: TextStyle(
                  color: Colors.white,
                  fontSize: 18,
                ), // TextStyle
              ), // Text
            ), // Center
          ), // Container
        ), // Center
      ), // Scaffold
    ); // MaterialApp
  }
}
```

home_screen.dart 1 | about_screen.dart | contact_screen.dart | main.dart

lib > main.dart > ...

```dart

import 'package:flutter/material.dart';
import 'home_screen.dart';
import 'about_screen.dart';
import 'contact_screen.dart';

Run | Debug | Profile
void main() {
runApp(MyApp());
}

class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
return MaterialApp(
title: 'Intro App',
theme: ThemeData(
primarySwatch: Colors.indigo,
), // ThemData
initialRoute: '/',
routes: {
'/': (context) => HomeScreen(),
'/about': (context) => AboutScreen(),
'/contact': (context) => ContactScreen(),
},
); // MaterialApp
}
}
```

home_screen.dart 1 | about_screen.dart | contact_screen.dart | main.dart

lib > home_screen.dart > ...

```dart
import 'package:flutter/material.dart';
import 'about_screen.dart';
class HomeScreen extends StatelessWidget {
  const HomeScreen({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('🏠 Home'),
        backgroundColor: Colors.purple.shade100,
        elevation: 0,
      ), // AppBar
      backgroundColor: Colors.purple.shade50,
      body: Center(
        child: Padding(
          padding: const EdgeInsets.symmetric(horizontal: 24.0),
          child: Column(
            mainAxisSize: MainAxisSize.min,
            children: [
              Container(
                width: 100,
                height: 100,
                decoration: BoxDecoration(
                  color: Colors.purple.shade200,
                  shape: BoxShape.circle,
                ), // BoxDecoration
              ), // Container
              const SizedBox(height: 30),
              const Text.rich(
                TextSpan(
                  text: 'Hi, I am Anuradha H',
                  style: TextStyle(
                    fontSize: 20,
                    fontWeight: FontWeight.bold,
                  ), // TextStyle
                  children: [
                    TextSpan(text: '👋', style: TextStyle(fontSize: 20)),
                  ],
                ), // TextSpan
```

home_screen.dart 1 × | about_screen.dart | contact_screen.dart | main.dart

lib > home_screen.dart > ...

```
3   class HomeScreen extends StatelessWidget {
7     Widget build(BuildContext context) {
40                ), // TextSpan
41                textAlign: TextAlign.center,
42              ), // Text.rich
43              const SizedBox(height: 12),
44              const Text(
45                'A passionate learner currently pursuing a Btech degree in Artificial intelligence and data science.',
46                textAlign: TextAlign.center,
47                style: TextStyle(fontSize: 16, height: 1.3),
48              ), // Text
49              const SizedBox(height: 30),
50              ElevatedButton.icon(
51                onPressed: () {
52                  Navigator.pushNamed(context, '/resume');
53                },
54                icon: const Icon(Icons.person),
55                label: const Text('View My Resume'),
56                style: ElevatedButton.styleFrom(
57                  backgroundColor: Colors.purple.shade100,
58                  foregroundColor: Colors.black87,
59                  padding:
60                      const EdgeInsets.symmetric(horizontal: 20, vertical: 12),
61                  shape: const StadiumBorder(),
62                ),
63              ), // ElevatedButton.icon
64              const SizedBox(height: 15),
65              ElevatedButton.icon(
66                onPressed: () {
67                  Navigator.pushNamed(context, '/contact');
68                },
69                icon: const Icon(Icons.contact_page),
70                label: const Text('Contact Me'),
71                style: ElevatedButton.styleFrom(
72                  backgroundColor: Colors.purple.shade100,
73                  foregroundColor: Colors.black87,
74                  padding:
75                      const EdgeInsets.symmetric(horizontal: 20, vertical: 12),
76                  shape: const StadiumBorder(),
77                ),
```

home_screen.dart 1 × | about_screen.dart | contact_screen.dart | main.dart

lib > home_screen.dart > ...

```
3   class HomeScreen extends StatelessWidget {
7     Widget build(BuildContext context) {
69                icon: const Icon(Icons.contact_page),
70                label: const Text('Contact Me'),
71                style: ElevatedButton.styleFrom(
72                  backgroundColor: Colors.purple.shade100,
73                  foregroundColor: Colors.black87,
74                  padding:
75                      const EdgeInsets.symmetric(horizontal: 20, vertical: 12),
76                  shape: const StadiumBorder(),
77                ),
78              ), // ElevatedButton.icon
79            ],
80          ), // Column
81        ), // Padding
82      ), // Center
83    ); // Scaffold
84    }
85  }
86
```

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

class AboutScreen extends StatelessWidget {
  const AboutScreen({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        leading: BackButton(),
        title: Row(
          children: const [
            Icon(Icons.description_outlined),
            SizedBox(width: 8),
            Text('My Resume'),
          ],
        ), // Row
        backgroundColor: Colors.purple.shade100,
        elevation: 0,
      ), // AppBar
      backgroundColor: Colors.purple.shade50,
      body: Padding(
        padding: const EdgeInsets.all(24.0),
        child: SingleChildScrollView(
          child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              const Text(
                'Anuradha H',
                style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold),
              ), // Text
              const SizedBox(height: 4),
              const Text(
                'First Year BTech Student in Artificial Intelligence and Data Science',
                style: TextStyle(fontSize: 16, fontWeight: FontWeight.w500),
              ), // Text
              const SizedBox(height: 20),
              const Text(
                '📌 Educational summary',
                style: TextStyle(fontWeight: FontWeight.bold, fontSize: 18),
```

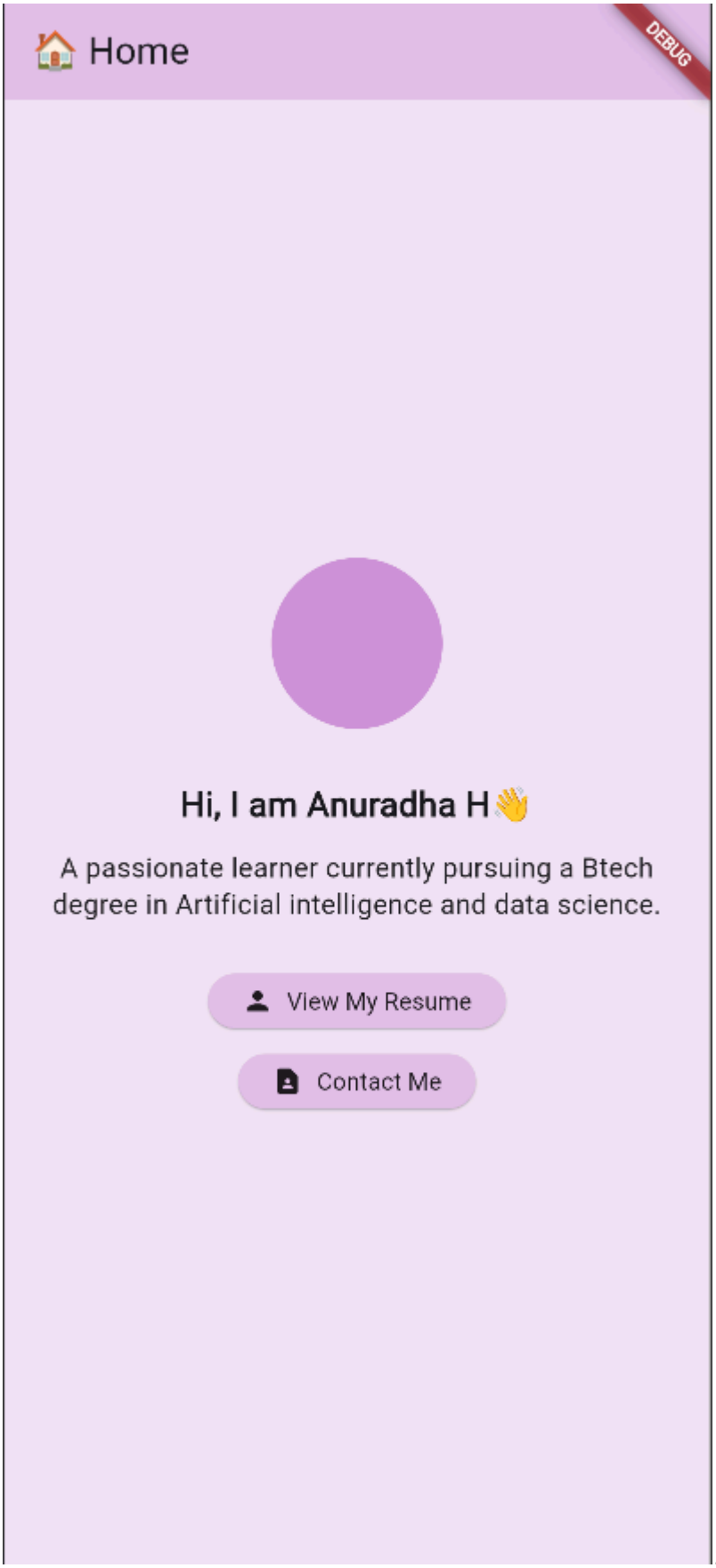
```dart
class AboutScreen extends StatelessWidget {
  Widget build(BuildContext context) {
```

```dart
                '📌 Educational summary',
                style: TextStyle(fontWeight: FontWeight.bold, fontSize: 18),
              ), // Text
              const SizedBox(height: 6),
              const Text(
                'I am an enthusiastic and innovative technology learner with expertise in empowering students and teams through hands
                style: TextStyle(fontSize: 16, height: 1.3),
              ), // Text
              const SizedBox(height: 20),
              const Text(
                '💼 Skills & Expertise',
                style: TextStyle(fontWeight: FontWeight.bold, fontSize: 18),
              ), // Text
              const SizedBox(height: 6),
              const Text(
                '• Flutter & Mobile App Development\n'
                '• DevOps, CI/CD & Cloud Deployment\n'
                '• AI & Agentic Workflows\n'
                '• Data Visualization (Python, Power BI, Tableau)\n'
                '• Git, GitHub, and Agile Project Management\n'
                '• Mentoring and guiding student projects to success',
                style: TextStyle(fontSize: 16, height: 1.3),
              ), // Text
              const SizedBox(height: 20),
              const Text(
                '🏆 Achievements',
                style: TextStyle(fontWeight: FontWeight.bold, fontSize: 18),
              ), // Text
              const SizedBox(height: 6),
              const Text(

                '• participated in various hackathons and coding competitions, winning accolades for innovative solutions.\n',

                style: TextStyle(fontSize: 16, height: 1.3),
              ), // Text
              const SizedBox(height: 30),
              Center(
                child: ElevatedButton.icon(
```

```
lib > about_screen.dart > ...
class AboutScreen extends StatelessWidget {
  Widget build(BuildContext context) {
                child: ElevatedButton.icon(
                  onPressed: () {
                    Navigator.pop(context);
                  },
                  icon: const Icon(Icons.home),
                  label: const Text('Back to Home'),
                  style: ElevatedButton.styleFrom(
                    shape: const StadiumBorder(),
                    backgroundColor: Colors.purple.shade100,
                    foregroundColor: Colors.black87,
                    padding: const EdgeInsets.symmetric(
                        horizontal: 24, vertical: 12), // EdgeInsets.symmetric
                  ),
                ), // ElevatedButton.icon
              ), // Center
            ],
          ), // Column
        ), // SingleChildScrollView
      ), // Padding
    ); // Scaffold
  }
}
```

```
lib > contact_screen.dart > ContactScreen > build
import 'package:flutter/material.dart';

class ContactScreen extends State   Type: String
  final String email = 'anuradhah@gmail.com';
  final String phone = '+91 9876543210';
  final String location = 'Bengaluru, India';

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        leading: BackButton(),
        title: Row(
          children: [
            Icon(Icons.phone),
            SizedBox(width: 8),
            Text('Contact Me'),
          ],
        ), // Row
        backgroundColor: Colors.purple.shade100,
        elevation: 0,
      ), // AppBar
      body: Padding(
        padding: const EdgeInsets.symmetric(horizontal: 24, vertical: 30),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Text(
              'Get in Touch',
              style: TextStyle(
                fontSize: 22,
                fontWeight: FontWeight.bold,
              ), // TextStyle
            ), // Text
            Divider(
              thickness: 1,
              height: 30,
            ), // Divider
            ListTile(
              leading: Icon(Icons.email, color: Colors.green),
```

```
contact_screen.dart > ContactScreen > build
class ContactScreen extends StatelessWidget {
  Widget build(BuildContext context) {
            ), // Divider
            ListTile(
              leading: Icon(Icons.email, color: Colors.green),
              title: Text(email, style: TextStyle(fontSize: 16)),
            ), // ListTile
            ListTile(
              leading: Icon(Icons.phone, color: Colors.green),
              title: Text(phone, style: TextStyle(fontSize: 16)),
            ), // ListTile
            ListTile(
              leading: Icon(Icons.location_on, color: Colors.green),
              title: Text(location, style: TextStyle(fontSize: 16)),
            ), // ListTile
            Spacer(),
            Center(
              child: ElevatedButton.icon(
                onPressed: () {
                  Navigator.pop(context);
                },
                icon: Icon(Icons.home),
                label: Text('Back to Home'),
                style: ElevatedButton.styleFrom(
                  shape: StadiumBorder(),
                  backgroundColor: Colors.purple.shade100,
                  foregroundColor: Colors.black87,
                  padding: EdgeInsets.symmetric(horizontal: 24, vertical: 12),
                ),
              ), // ElevatedButton.icon
            ), // Center
          ],
        ), // Column
      ), // Padding
      backgroundColor: Colors.purple.shade50,
    ); // Scaffold
  }
}
```


Home
DEBUG
Hi, I am Anuradha H
A passionate learner currently pursuing a Btech degree in Artificial intelligence and data science.
View My Resume
Contact Me

zzzzz

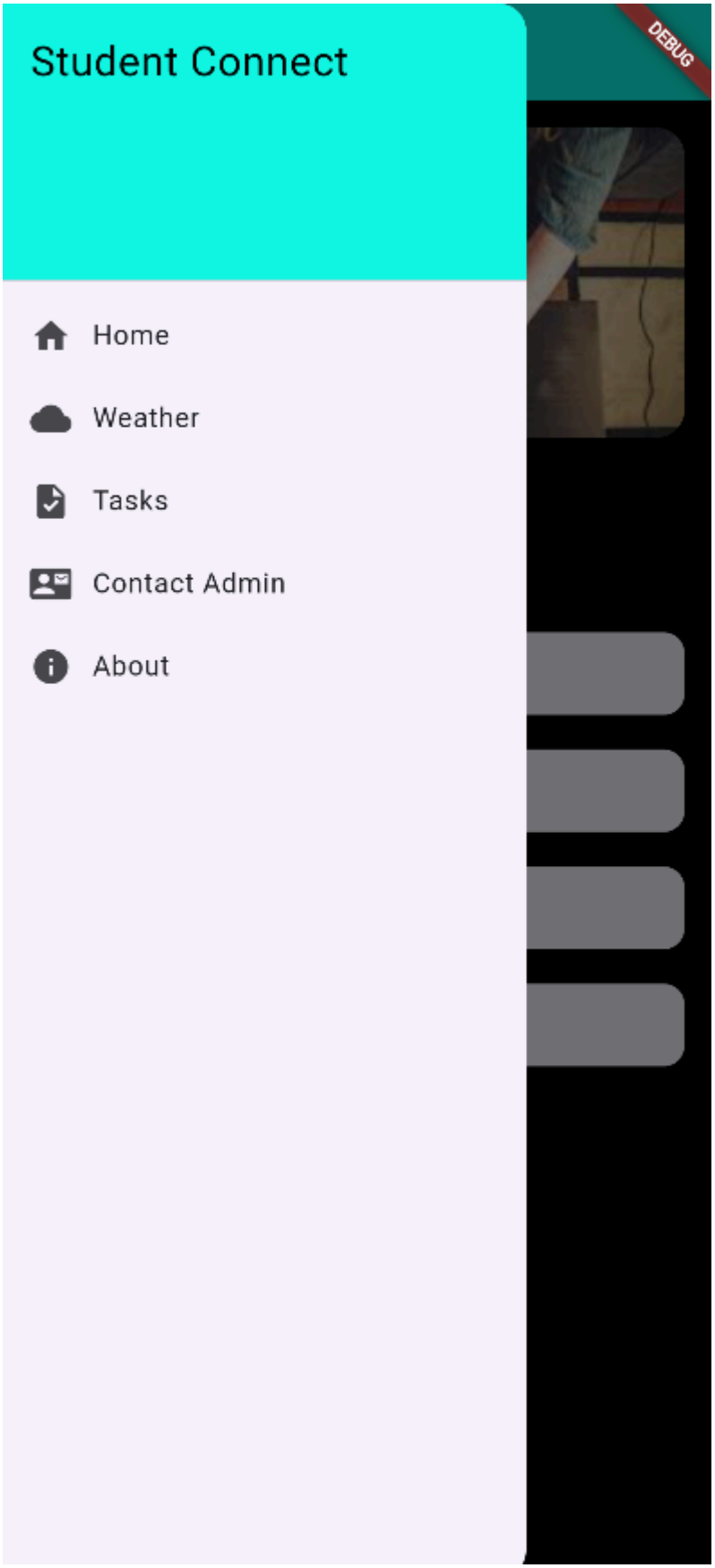
Student Connect

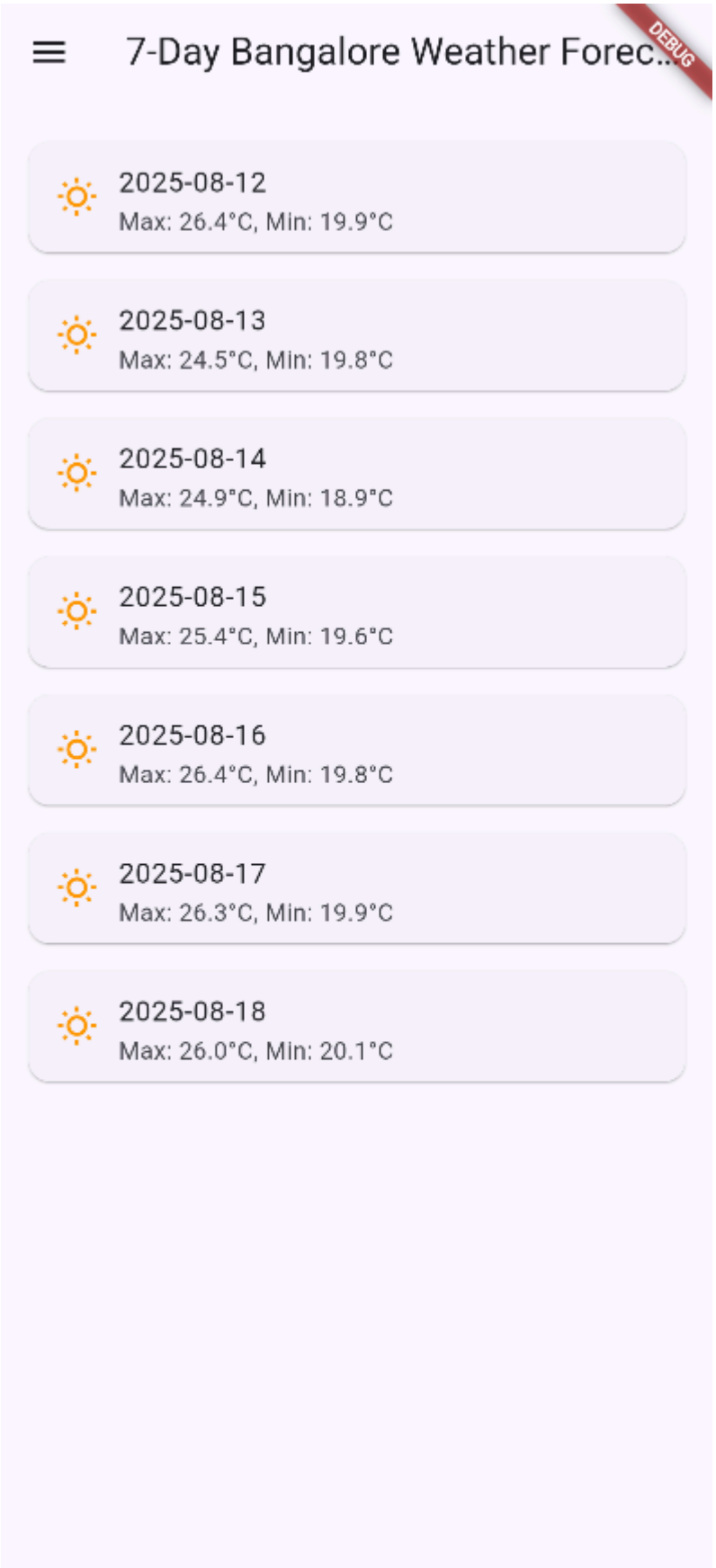
DEBUG

Welcome!

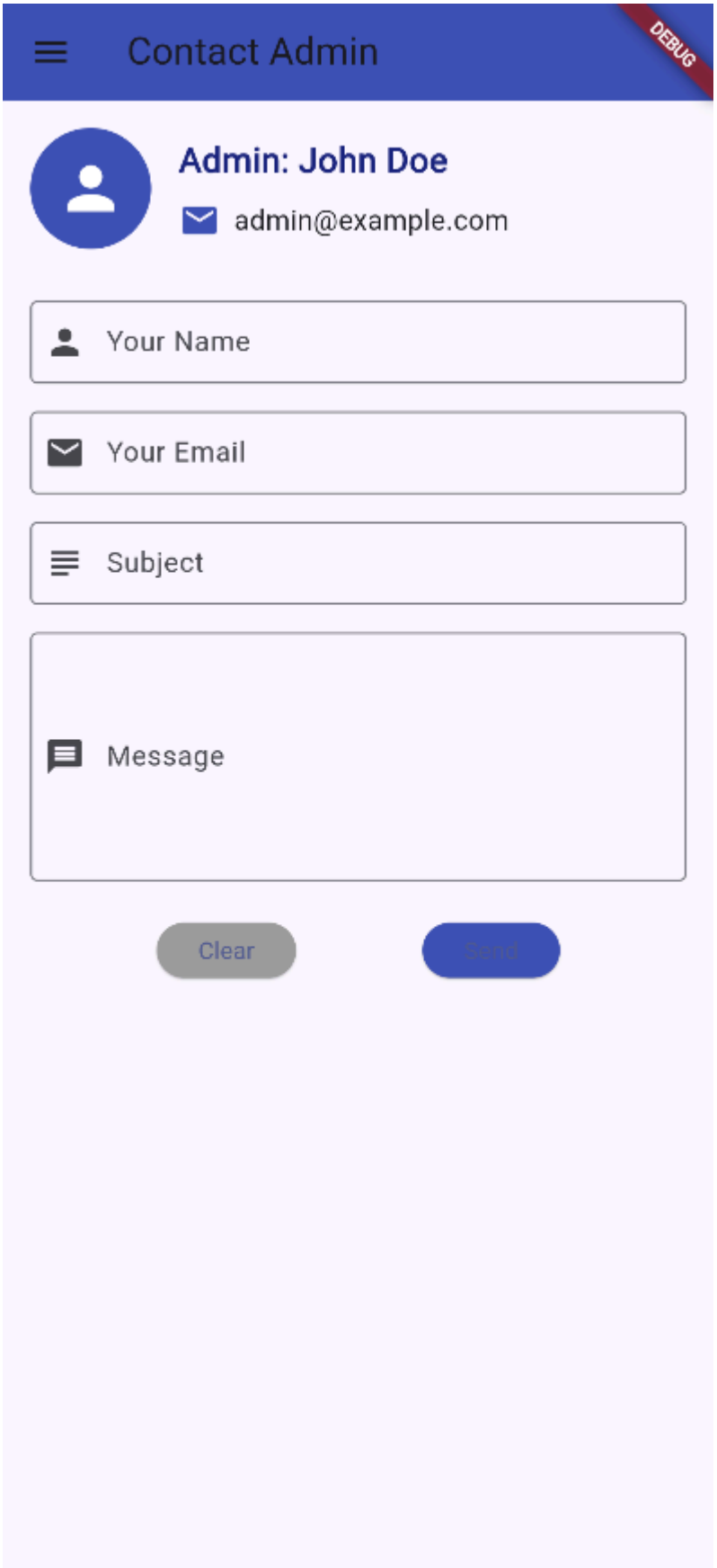
Quick shortcuts to useful features.

- Weather (Bengaluru)
- Tasks (CRUD)
- Contact Admin (Form)
- About


Student Connect
DEBUG
Home
Weather
Tasks
Contact Admin
About


7-Day Bangalore Weather Forec...
DEBUG
2025-08-12
Max: 26.4°C, Min: 19.9°C
2025-08-13
Max: 24.5°C, Min: 19.8°C
2025-08-14
Max: 24.9°C, Min: 18.9°C
2025-08-15
Max: 25.4°C, Min: 19.6°C
2025-08-16
Max: 26.4°C, Min: 19.8°C
2025-08-17
Max: 26.3°C, Min: 19.9°C
2025-08-18
Max: 26.0°C, Min: 20.1°C

Tasks
DEBUG
Add new task
No tasks yet.


Contact Admin
DEBUG
Admin: John Doe
admin@example.com
Your Name
Your Email
Subject
Message
Clear
Send

About

DEBUG

Student Connect

Key Features:

Live Weather Updates
Get 7-day weather forecasts for Bengaluru in real-time.

Task Manager
Add, edit, and delete tasks with ease.

Contact Admin
Send messages directly to admin via email app.

Material 3 Design
Modern UI with Indigo color scheme for better UX.

Easy Navigation
Smooth navigation using a drawer and routes.

Developed by You.

```
                    title: Text(
                      feature['title'],
                      style: TextStyle(fontWeight: FontWeight.bold),
                    ), // Text
                    subtitle: Text(feature['description']),
                  ); // ListTile
                },
              ), // ListView.separated
            ), // Expanded
            SizedBox(height: 12),
            Text(
              'Developed by You.',
              style: TextStyle(fontSize: 16, fontStyle: FontStyle.italic, color: Colors.indigo.shade700
            ), // Text
          ],
        ), // Column
      ), // Padding
    ); // Scaffold
  }
}
```

```
import 'package:flutter/material.dart';
import 'package:url_launcher/url_launcher.dart';
import 'app_drawer.dart';

class ContactAdminScreen extends StatefulWidget {
  @override
  _ContactAdminScreenState createState() => _ContactAdminScreenState();
}

class _ContactAdminScreenState extends State<ContactAdminScreen> {
  final _formKey = GlobalKey<FormState>();

  final TextEditingController nameController = TextEditingController();
  final TextEditingController emailController = TextEditingController();
  final TextEditingController subjectController = TextEditingController();
  final TextEditingController messageController = TextEditingController();

  Future<void> sendEmail() async {
    final name = nameController.text.trim();
    final email = emailController.text.trim();
    final subject = subjectController.text.trim();
    final message = messageController.text.trim();

    final Uri mailto = Uri(
      scheme: 'mailto',
      path: 'admin@example.com', // change to your admin email
      queryParameters: {
        'subject': 'Contact Form: $subject',
        'body': 'Name: $name\nEmail: $email\n\n$message',
      },
    );

    if (await canLaunchUrl(mailto)) {
      await launchUrl(mailto);
    } else {
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text('Could not open mail app')),
      );
    }
  }
```

```
10  class _ContactAdminScreenState extends State<ContactAdminScreen> {
40    }
41
42    void clearForm() {
43      nameController.clear();
44      emailController.clear();
45      subjectController.clear();
46      messageController.clear();
47    }
48
49    @override
50    void dispose() {
51      nameController.dispose();
52      emailController.dispose();
53      subjectController.dispose();
54      messageController.dispose();
55      super.dispose();
56    }
57
58    @override
59    Widget build(BuildContext context) {
60      return Scaffold(
61        drawer: AppDrawer(),
62        appBar: AppBar(
63          title: Text('Contact Admin'),
64          backgroundColor: Colors.indigo,
65        ), // AppBar
66        body: SingleChildScrollView(
67          padding: EdgeInsets.all(16),
68          child: Column(
69            crossAxisAlignment: CrossAxisAlignment.start,
70            children: [
71              // Admin info section
72              Row(
73                children: [
74                  CircleAvatar(
75                    radius: 35,
76                    backgroundColor: Colors.indigo,
77                    child: Icon(Icons.person, size: 40, color: Colors.white),
78                    // You can replace this with your admin logo image
```

```
10  class _ContactAdminScreenState extends State<ContactAdminScreen> {
59    Widget build(BuildContext context) {
78                  // You can replace this with your admin logo image
79                ), // CircleAvatar
80                SizedBox(width: 16),
81                Column(
82                  crossAxisAlignment: CrossAxisAlignment.start,
83                  children: [
84                    Text(
85                      'Admin: John Doe',
86                      style: TextStyle(
87                        fontWeight: FontWeight.bold,
88                        fontSize: 20,
89                        color: Colors.indigo.shade900,
90                      ), // TextStyle
91                    ), // Text
92                    SizedBox(height: 8),
93                    Row(
94                      children: [
95                        Icon(Icons.email, color: Colors.indigo),
96                        SizedBox(width: 8),
97                        Text(
98                          'admin@example.com',
99                          style: TextStyle(fontSize: 16),
100                       ), // Text
101                     ],
102                   ), // Row
103                 ],
104               ), // Column
105             ],
106           ), // Row
107
108           SizedBox(height: 30),
109
110           // Contact form
111           Form(
112             key: _formKey,
113             child: Column(
114               children: [
115                 // Name
```

```
10  class _ContactAdminScreenState extends State<ContactAdminScreen> {
59    Widget build(BuildContext context) {
14                children: [
15                  // Name
16                  TextFormField(
17                    controller: nameController,
18                    decoration: InputDecoration(
19                      labelText: 'Your Name',
20                      prefixIcon: Icon(Icons.person),
21                      border: OutlineInputBorder(),
22                    ), // InputDecoration
23                    validator: (value) {
24                      if (value == null || value.trim().isEmpty) {
25                        return 'Please enter your name';
26                      }
27                      return null;
28                    },
29                  ), // TextFormField
30                  SizedBox(height: 16),
31
32                  // Email
33                  TextFormField(
34                    controller: emailController,
35                    decoration: InputDecoration(
36                      labelText: 'Your Email',
37                      prefixIcon: Icon(Icons.email),
38                      border: OutlineInputBorder(),
39                    ), // InputDecoration
40                    keyboardType: TextInputType.emailAddress,
41                    validator: (value) {
42                      if (value == null || value.trim().isEmpty) {
43                        return 'Please enter your email';
44                      }
45                      if (!RegExp(r'^[\w-\.]+@([\w-]+\.)+[\w-]{2,4}$')
46                          .hasMatch(value.trim())) {
47                        return 'Enter a valid email';
48                      }
49                      return null;
50                    },
51                  ), // TextFormField
```

```
10  class _ContactAdminScreenState extends State<ContactAdminScreen> {
59    Widget build(BuildContext context) {
51                  ), // TextFormField
52                  SizedBox(height: 16),
53
54                  // Subject
55                  TextFormField(
56                    controller: subjectController,
57                    decoration: InputDecoration(
58                      labelText: 'Subject',
59                      prefixIcon: Icon(Icons.subject),
60                      border: OutlineInputBorder(),
61                    ), // InputDecoration
62                    validator: (value) {
63                      if (value == null || value.trim().isEmpty) {
64                        return 'Please enter subject';
65                      }
66                      return null;
67                    },
68                  ), // TextFormField
69                  SizedBox(height: 16),
70
71                  // Message
72                  TextFormField(
73                    controller: messageController,
74                    decoration: InputDecoration(
75                      labelText: 'Message',
76                      prefixIcon: Icon(Icons.message),
77                      border: OutlineInputBorder(),
78                    ), // InputDecoration
79                    maxLines: 5,
80                    validator: (value) {
81                      if (value == null || value.trim().isEmpty) {
82                        return 'Please enter your message';
83                      }
84                      return null;
85                    },
86                  ), // TextFormField
87
88                  SizedBox(height: 24),
```

```
class _ContactAdminScreenState extends State<ContactAdminScreen> {
  Widget build(BuildContext context) {
                    ), // TextFormField

                    SizedBox(height: 24),

                    // Buttons
                    Row(
                      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                      children: [
                        ElevatedButton(
                          style: ElevatedButton.styleFrom(
                            backgroundColor: Colors.grey,
                          ),
                          onPressed: clearForm,
                          child: Text('Clear'),
                        ), // ElevatedButton
                        ElevatedButton(
                          style: ElevatedButton.styleFrom(
                            backgroundColor: Colors.indigo,
                          ),
                          onPressed: () {
                            if (_formKey.currentState!.validate()) {
                              sendEmail();
                            }
                          },
                          child: Text('Send'),
                        ), // ElevatedButton
                      ],
                    ), // Row
                  ],
                ), // Column
              ) // Form
            ],
          ), // Column
        ), // SingleChildScrollView
      ); // Scaffold
  }
}
```

```dart
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'dart:convert';
import 'app_drawer.dart';

class TasksScreen extends StatefulWidget {
  @override
  _TasksScreenState createState() => _TasksScreenState();
}

class _TasksScreenState extends State<TasksScreen> {
  List<String> tasks = [];
  TextEditingController taskController = TextEditingController();

  @override
  void initState() {
    super.initState();
    loadTasks();
  }

  Future<void> loadTasks() async {
    final prefs = await SharedPreferences.getInstance();
    final String? tasksString = prefs.getString('tasks');
    if (tasksString != null) {
      setState(() {
        tasks = List<String>.from(jsonDecode(tasksString));
      });
    }
  }

  Future<void> saveTasks() async {
    final prefs = await SharedPreferences.getInstance();
    prefs.setString('tasks', jsonEncode(tasks));
  }

  void addTask(String task) {
    if (task.isEmpty) return;
    setState(() {
      tasks.add(task);
      taskController.clear();
```

```
11  class _TasksScreenState extends State<TasksScreen> {
36    void addTask(String task) {
38      setState(() {
39        tasks.add(task);
40        taskController.clear();
41      });
42      saveTasks();
43    }
44
45    void editTask(int index, String newTask) {
46      setState(() {
47        tasks[index] = newTask;
48      });
49      saveTasks();
50    }
51
52    void deleteTask(int index) {
53      setState(() {
54        tasks.removeAt(index);
55      });
56      saveTasks();
57    }
58
59    void showEditDialog(int index) {
60      final editController = TextEditingController(text: tasks[index]);
61      showDialog(
62        context: context,
63        builder: (_) => AlertDialog(
64          title: Text('Edit Task'),
65          content: TextField(controller: editController),
66          actions: [
67            TextButton(
68              onPressed: () {
69                editTask(index, editController.text);
70                Navigator.pop(context);
71              },
72              child: Text('Save'),
73            ), // TextButton
74            TextButton(onPressed: () => Navigator.pop(context), child: Text('Cancel')),
75          ],
76        ), // AlertDialog
```

```
11  class _TasksScreenState extends State<TasksScreen> {
59    void showEditDialog(int index) {
76        ), // AlertDialog
77      );
78    }
79
80    @override
81    Widget build(BuildContext context) {
82      return Scaffold(
83        drawer: AppDrawer(),
84        appBar: AppBar(title: Text('Tasks')),
85        body: Padding(
86          padding: EdgeInsets.all(12),
87          child: Column(
88            children: [
89              TextField(
90                controller: taskController,
91                decoration: InputDecoration(
92                  labelText: 'Add new task',
93                  suffixIcon: IconButton(
94                    icon: Icon(Icons.add),
95                    onPressed: () => addTask(taskController.text),
96                  ), // IconButton
97                ), // InputDecoration
98              ), // TextField
99              SizedBox(height: 20),
100             Expanded(
101               child: tasks.isEmpty
102                   ? Center(child: Text('No tasks yet.'))
103                   : ListView.builder(
104                       itemCount: tasks.length,
105                       itemBuilder: (ctx, i) => ListTile(
106                         title: Text(tasks[i]),
107                         trailing: Row(
108                           mainAxisSize: MainAxisSize.min,
109                           children: [
110                             IconButton(
111                               icon: Icon(Icons.edit),
112                               onPressed: () => showEditDialog(i),
113                             ), // IconButton
```

```
11  class _TasksScreenState extends State<TasksScreen> {
81    Widget build(BuildContext context) {
109                           children: [
110                             IconButton(
111                               icon: Icon(Icons.edit),
112                               onPressed: () => showEditDialog(i),
113                             ), // IconButton
114                             IconButton(
115                               icon: Icon(Icons.delete),
116                               onPressed: () => deleteTask(i),
117                             ), // IconButton
118                           ],
119                         ), // Row
120                       ), // ListTile
121                   ), // ListView.builder
122             ), // Expanded
123           ],
124         ), // Column
125       ), // Padding
126     ); // Scaffold
127   }
128 }
129
```

```dart
import 'package:flutter/material.dart';
import 'dart:convert';
import 'package:http/http.dart' as http;
import 'app_drawer.dart';

class WeatherScreen extends StatefulWidget {
  @override
  _WeatherScreenState createState() => _WeatherScreenState();
}

class _WeatherScreenState extends State<WeatherScreen> {
  List<String> dates = [];
  List<double> tempsMax = [];
  List<double> tempsMin = [];
  bool isLoading = true;
  String error = '';

  // Bangalore coordinates
  final double latitude = 12.9716;
  final double longitude = 77.5946;

  Future<void> fetchWeather() async {
    final url = Uri.parse(
      'https://api.open-meteo.com/v1/forecast?latitude=$latitude&longitude=$longitude&daily=temperature_2
    );

    try {
      final response = await http.get(url);
      if (response.statusCode == 200) {
        final data = jsonDecode(response.body);

        setState(() {
          dates = List<String>.from(data['daily']['time']);
          tempsMax = List<double>.from(
              data['daily']['temperature_2m_max'].map((x) => x.toDouble()));
          tempsMin = List<double>.from(
              data['daily']['temperature_2m_min'].map((x) => x.toDouble()));
          isLoading = false;
        });
      } else {
```

```
11  class _WeatherScreenState extends State<WeatherScreen> {
22    Future<void> fetchWeather() async {
39          });
40        } else {
41          setState(() {
42            error = 'Failed to load weather data';
43            isLoading = false;
44          });
45        }
46      } catch (e) {
47        setState(() {
48          error = 'Error fetching weather data: $e';
49          isLoading = false;
50        });
51      }
52    }
53
54    @override
55    void initState() {
56      super.initState();
57      fetchWeather();
58    }
59
60    @override
61    Widget build(BuildContext context) {
62      return Scaffold(
63        drawer: AppDrawer(),
64        appBar: AppBar(title: Text('7-Day Bangalore Weather Forecast')),
65        body: Center(
66          child: isLoading
67              ? CircularProgressIndicator()
68              : error.isNotEmpty
69                  ? Text(error)
70                  : ListView.builder(
71                      padding: EdgeInsets.all(16),
72                      itemCount: dates.length,
73                      itemBuilder: (context, index) {
74                        return Card(
75                          margin: EdgeInsets.symmetric(vertical: 8),
```

```
11  class _WeatherScreenState extends State<WeatherScreen> {
61    Widget build(BuildContext context) {
74                        return Card(
75                          margin: EdgeInsets.symmetric(vertical: 8),
76                          child: ListTile(
77                            leading: Icon(Icons.wb_sunny_outlined,
78                                color: Colors.orange), // Icon
79                            title: Text(dates[index]),
80                            subtitle: Text(
81                                'Max: ${tempsMax[index].toStringAsFixed(1)}°C, Min: ${tempsMin[index].toStr
82                          ), // ListTile
83                        ); // Card
84                      },
85                    ), // ListView.builder
86        ), // Center
87      ); // Scaffold
88    }
89  }
90
```

```dart
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'dart:convert';
import 'app_drawer.dart';

class TasksScreen extends StatefulWidget {
  @override
  _TasksScreenState createState() => _TasksScreenState();
}

class _TasksScreenState extends State<TasksScreen> {
  List<String> tasks = [];
  TextEditingController taskController = TextEditingController();

  @override
  void initState() {
    super.initState();
    loadTasks();
  }

  Future<void> loadTasks() async {
    final prefs = await SharedPreferences.getInstance();
    final String? tasksString = prefs.getString('tasks');
    if (tasksString != null) {
      setState(() {
        tasks = List<String>.from(jsonDecode(tasksString));
      });
    }
  }

  Future<void> saveTasks() async {
    final prefs = await SharedPreferences.getInstance();
    prefs.setString('tasks', jsonEncode(tasks));
  }

  void addTask(String task) {
    if (task.isEmpty) return;
    setState(() {
      tasks.add(task);
      taskController.clear();
```

```dart
class _TasksScreenState extends State<TasksScreen> {
  void addTask(String task) {
    });
    saveTasks();
  }

  void editTask(int index, String newTask) {
    setState(() {
      tasks[index] = newTask;
    });
    saveTasks();
  }

  void deleteTask(int index) {
    setState(() {
      tasks.removeAt(index);
    });
    saveTasks();
  }

  void showEditDialog(int index) {
    final editController = TextEditingController(text: tasks[index]);
    showDialog(
      context: context,
      builder: (_) => AlertDialog(
        title: Text('Edit Task'),
        content: TextField(controller: editController),
        actions: [
          TextButton(
            onPressed: () {
              editTask(index, editController.text);
              Navigator.pop(context);
            },
            child: Text('Save'),
          ), // TextButton
          TextButton(onPressed: () => Navigator.pop(context), child: Text('Cancel')),
        ],
      ), // AlertDialog
    );
  }
```

```
11  class _TasksScreenState extends State<TasksScreen> {
59    void showEditDialog(int index) {
76        ), // AlertDialog
77      );
78    }
79
80    @override
81    Widget build(BuildContext context) {
82      return Scaffold(
83        drawer: AppDrawer(),
84        appBar: AppBar(title: Text('Tasks')),
85        body: Padding(
86          padding: EdgeInsets.all(12),
87          child: Column(
88            children: [
89              TextField(
90                controller: taskController,
91                decoration: InputDecoration(
92                  labelText: 'Add new task',
93                  suffixIcon: IconButton(
94                    icon: Icon(Icons.add),
95                    onPressed: () => addTask(taskController.text),
96                  ), // IconButton
97                ), // InputDecoration
98              ), // TextField
99              SizedBox(height: 20),
100             Expanded(
101               child: tasks.isEmpty
102                   ? Center(child: Text('No tasks yet.'))
103                   : ListView.builder(
104                       itemCount: tasks.length,
105                       itemBuilder: (ctx, i) => ListTile(
106                         title: Text(tasks[i]),
107                         trailing: Row(
108                           mainAxisSize: MainAxisSize.min,
109                           children: [
110                             IconButton(
111                               icon: Icon(Icons.edit),
112                               onPressed: () => showEditDialog(i),
113                             ), // IconButton
```

```
11  class _TasksScreenState extends State<TasksScreen> {
81    Widget build(BuildContext context) {
107                         trailing: Row(
108                           mainAxisSize: MainAxisSize.min,
109                           children: [
110                             IconButton(
111                               icon: Icon(Icons.edit),
112                               onPressed: () => showEditDialog(i),
113                             ), // IconButton
114                             IconButton(
115                               icon: Icon(Icons.delete),
116                               onPressed: () => deleteTask(i),
117                             ), // IconButton
118                           ],
119                         ), // Row
120                       ), // ListTile
121                     ), // ListView.builder
122             ), // Expanded
123           ],
124         ), // Column
125       ), // Padding
126     ); // Scaffold
127   }
128 }
129
```