

## **MAKING CALLS IN FLUTTER**

### **Source Code:**

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

void main() {
  runApp(MaterialApp(home: MyApp()));
}

class MyApp extends StatelessWidget {
  TextEditingController textEditingController = TextEditingController();

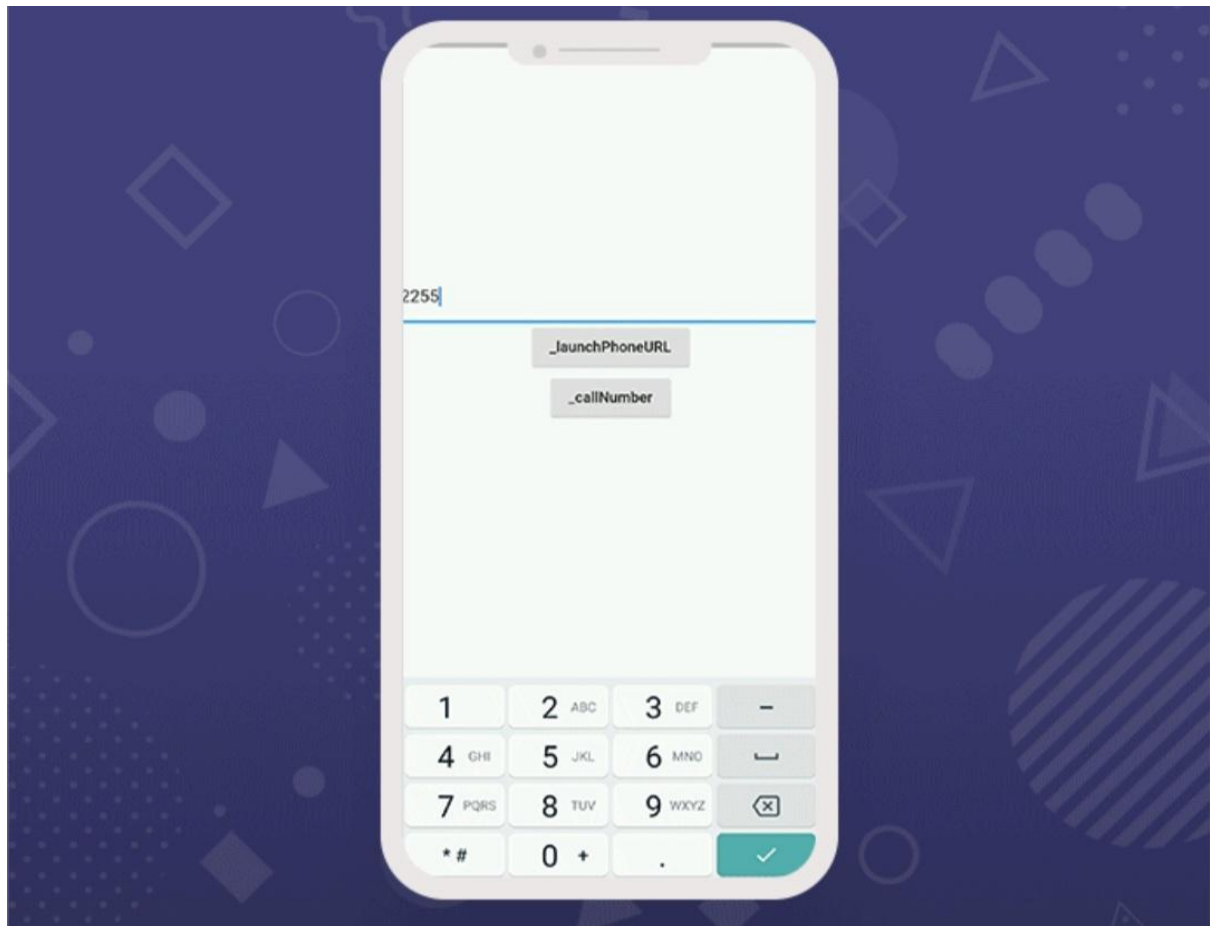
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Container(
            child: TextFormField(
              keyboardType: TextInputType.phone,
              controller: textEditingController,
              decoration: InputDecoration(
                hintText: 'Enter phone number',
              ),
            ),
          ),
          RaisedButton(
            child: Text("Call using flutter_phone_direct_caller"),
            onPressed: () {
              _callNumber(textEditingController.text);
            },
          ),
          RaisedButton(
            child: Text("Call using url_launcher"),
```

```
        onPressed: () {
          _launchPhoneURL(textEditingController.text);
        },
      ),
    ],
  ),
);
}
}

_callNumber(String phoneNumber) async {
  if (phoneNumber.isNotEmpty) {
    await FlutterPhoneDirectCaller.callNumber(phoneNumber);
  } else {
    // Handle empty phone number case
    print("Phone number is empty");
  }
}

_launchPhoneURL(String phoneNumber) async {
  String url = 'tel:' + phoneNumber;
  try {
    if (phoneNumber.isNotEmpty) {
      if (await canLaunch(url)) {
        await launch(url);
      } else {
        // Handle cannot launch URL case
        print("Cannot launch URL");
      }
    } else {
      // Handle empty phone number case
      print("Phone number is empty");
    }
  } catch (e) {
    // Handle exceptions
    print("Exception: $e");
  }
}
```

**Output:**



### Detailed explanation of the code:

This Flutter code creates a simple application that allows users to input a phone number and make calls using two different methods:

flutter\_phone\_direct\_caller and url\_launcher.

#### Imports:

- **material.dart:** Flutter's material design widgets.
- **flutter\_phone\_direct\_caller.dart:** Package for making phone calls directly from the app.
- **url\_launcher.dart:** Package for launching URLs.

#### Main Function:

- **main():** Entry point of the Flutter application. It runs the 'MaterialApp' widget with 'MyApp' as the home page.

#### MyApp Class:

- **StatelessWidget:** Represents the application itself.
- **textEditingController:** Controller for the text input field. It allows the widget to interact with the input field's value.

#### Build Function:

- **build():** Defines the UI layout of the application.
- **Scaffold:** Provides a basic structure for the app's layout.
- **Column:** Organizes children widgets in a vertical column.
- **TextFormField:** Allows users to input a phone number. The 'keyboardType' is set to 'TextInputType.phone' to bring up the phone-specific keyboard. It uses 'textEditingController' to control the text field's value.
- Two 'RaisedButton' widgets:
- One to call the '\_callNumber' function.
- Another to call the '\_launchPhoneURL' function.

#### \_callNumber Function:

- Initiates a phone call using 'FlutterPhoneDirectCaller.callNumber()'.  
● Checks if the phone number is not empty before making the call.

**\_launchPhoneURL Function:**

- Constructs a phone call URL using the **'tel:'** prefix.
- Tries to launch the URL using **'url\_launcher'**.
- Checks if the phone number is not empty before launching the URL.
- Uses a **'try-catch'** block to handle any exceptions that might occur during URL launching.

Overall, this code creates a basic Flutter application that allows users to input a phone number and make calls using either **'flutter\_phone\_direct\_caller'** or **'url\_launcher'**, depending on the button pressed.