

# ðŸ“œ Project Plan

Creating a calculator app using Flutter is a great way to learn the framework! Below is a step-by-step guide to help you build a simple calculator app.

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## ### \*\*Step 1: Set Up Your Flutter Environment\*\*

1. Install Flutter by following the official [Flutter installation guide](https://flutter.dev/docs/get-started/install).

2. Create a new Flutter project:

```
```bash
flutter create calculator_app
cd calculator_app
```
```

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## ### \*\*Step 2: Design the User Interface\*\*

The calculator app will have:

- A display area to show the input and result.
- Buttons for numbers (0-9) and operations (+, -, \*, /, =, C).

Hereâ€™s the code for the UI:

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

void main() {
  runApp(CalculatorApp());
}

class CalculatorApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Calculator',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: CalculatorScreen(),
    );
  }
}

class CalculatorScreen extends StatefulWidget {
  @override
  _CalculatorScreenState createState() => _CalculatorScreenState();
}

class _CalculatorScreenState extends State {
  String _output = "0";
  String _currentInput = "";
  double _num1 = 0;
  double _num2 = 0;
  String _operator = "";

  void _buttonPressed(String buttonText) {
    setState() {
      if (buttonText == "C") {
        _output = "0";
        _currentInput = "";
        _num1 = 0;
        _num2 = 0;
        _operator = "";
      }
    }
  }
}
```

```

} else if(buttonText == "+" || buttonText == "-" || buttonText == "*" || buttonText == "/") {
  _num1 = double.parse(_currentInput);
  _operator = buttonText;
  _currentInput = "";
} else if(buttonText == "=") {
  _num2 = double.parse(_currentInput);
  if(_operator == "+") {
    _output = (_num1 + _num2).toString();
  } else if(_operator == "-") {
    _output = (_num1 - _num2).toString();
  } else if(_operator == "*") {
    _output = (_num1 * _num2).toString();
  } else if(_operator == "/") {
    _output = (_num1 / _num2).toString();
  }
  _currentInput = _output;
  _num1 = 0;
  _num2 = 0;
  _operator = "";
} else {
  _currentInput += buttonText;
  _output = _currentInput;
}
});
}

```

```

Widget _buildButton(String buttonText) {
  return Expanded(
    child: ElevatedButton(
      onPressed: () => _buttonPressed(buttonText),
      child: Text(
        buttonText,
        style: TextStyle(fontSize: 24),
      ),
    ),
  );
}

```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text('Calculator'),
    ),
    body: Column(
      children: [
        Expanded(
          child: Container(
            padding: EdgeInsets.all(16),
            alignment: Alignment.bottomRight,
            child: Text(
              _output,
              style: TextStyle(fontSize: 48, fontWeight: FontWeight.bold),
            ),
          ),
        ),
        Row(
          children: [
            _buildButton("7"),
            _buildButton("8"),
            _buildButton("9"),
            _buildButton("/"),
          ],
        ),
        Row(

```

```

children: [
  _buildButton("4"),
  _buildButton("5"),
  _buildButton("6"),
  _buildButton("*"),
],
),
Row(
  children: [
    _buildButton("1"),
    _buildButton("2"),
    _buildButton("3"),
    _buildButton("-"),
  ],
),
Row(
  children: [
    _buildButton("0"),
    _buildButton("C"),
    _buildButton("="),
    _buildButton("+"),
  ],
),
],
),
);
}
}
...

```

---

#### ### \*\*Step 3: Run the App\*\*

1. Save the code in `lib/main.dart`.
2. Run the app using:
 

```

bash
flutter run

```

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#### ### \*\*Step 4: Customize and Enhance\*\*

- Add more features like decimal support, backspace, or scientific operations.
- Improve the UI with themes, gradients, or animations.
- Test the app on different devices and screen sizes.

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#### ### \*\*Step 5: Publish (