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# Flutter State Management: Provider for Beginners

**Subtitle:** Learn how to manage app state efficiently using the Provider package in Flutter.

**Website Name:** haas.dev

**Website Link:** <https://dev-roast-app.vercel.app>

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## Introduction

Managing state is crucial for **dynamic apps**. Provider is a simple and powerful **state management solution** in Flutter that separates UI from logic. This guide covers the basics and practical usage.

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## Step 1: Add Provider Dependency

```
dependencies:  
  provider: ^6.1.6
```

Run:

```
flutter pub get
```

Import in Dart:

```
import 'package:provider/provider.dart';
```

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## Step 2: Create a State Class

```
class Counter with ChangeNotifier {  
  int _count = 0;  
  
  int get count => _count;  
  
  void increment() {  
    _count++;  
    notifyListeners();  
  }  
}
```

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**Exercise:** Create a counter class with increment functionality.

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### Step 3: Wrap App with ChangeNotifierProvider

```
void main() {  
  runApp(  
    ChangeNotifierProvider(  
      create: (_) => Counter(),  
      child: MyApp(),  
    ),  
  );  
}
```

**Exercise:** Wrap your app to provide state globally.

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### Step 4: Access State in Widgets

```
Consumer<Counter>(  
  builder: (context, counter, child) {  
    return Text('Count: ${counter.count}');  
  },  
)
```

**Exercise:** Display the current count on screen using `Consumer`.

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### Step 5: Update State from UI

```
ElevatedButton(  
  onPressed: () {  
    context.read<Counter>().increment();  
  },  
  child: Text('Increment'),  
)
```

**Exercise:** Add a button to increment the counter and update the UI.

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### Step 6: Mini Project

Build a **Flutter Counter App with Provider**:

- Global counter state using Provider

- Global counter state using Provider
  - Display current value with Consumer
  - Increment button updates state instantly
  - Bonus: Add multiple widgets consuming the same state
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## Key Takeaways

- Provider separates **logic from UI**, making apps clean
  - `ChangeNotifier` notifies listeners when state changes
  - Consumer and `context.read()` access and update state
  - Proper state management ensures **scalable and maintainable apps**
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Skipping state management leads to **messy and unmaintainable code**, especially for complex apps.

Visit **haas.dev** for more Flutter guides, tutorials, and complete project resources.

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