
Flutter Local Storage: Using SharedPreferences

Subtitle: Learn how to save and retrieve simple data locally in Flutter apps using SharedPreferences.

Website Name: haas.dev

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

Introduction

Local storage is important for **saving user preferences or small data**. SharedPreferences in Flutter allows you to **store key-value pairs** persistently. This guide shows practical usage.

Step 1: Add SharedPreferences Dependency

```
dependencies:  
  shared_preferences: ^2.2.0
```

Run:

```
flutter pub get
```

Import in Dart:

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

Step 2: Save Data Locally

```
Future<void> saveData(String key, String value) async {  
  final prefs = await SharedPreferences.getInstance();  
  await prefs.setString(key, value);  
}
```

Exercise: Save a username or theme preference using `saveData`.

Step 3: Retrieve Data

```
Future<String?> getData(String key) async {  
  final prefs = await SharedPreferences.getInstance();  
  return prefs.getString(key);  
}
```

```
return prefs.getString(key);  
}
```

Exercise: Display the saved username when the app launches.

Step 4: Remove or Clear Data

```
// Remove specific key  
await prefs.remove('username');  
  
// Clear all data  
await prefs.clear();
```

Exercise: Add a logout button that clears stored user data.

Step 5: Mini Project

Build a **Flutter Settings App**:

- Save user name, theme, or preferences using SharedPreferences
 - Display saved data on app start
 - Add a button to clear preferences
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Key Takeaways

- SharedPreferences is ideal for **small, persistent key-value data**
 - Use setx methods (setString, setInt, setBool) to save data
 - Always check if the key exists before using it
 - Local storage improves **user experience and app personalization**
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Skipping local storage forces users to **re-enter preferences** each time, reducing app usability.

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