
Flutter QR Code Scanner & Generator

Subtitle: Learn how to generate and scan QR codes in Flutter apps for interactive features.

Website Name: haas.dev

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

Introduction

QR codes are widely used for **payments, links, and authentication**. Flutter allows you to **generate QR codes and scan them** using camera input.

Step 1: Add Dependencies

```
dependencies:  
  qr_flutter: ^4.0.0  
  qr_code_scanner: ^1.0.1
```

Run:

```
flutter pub get
```

Import in Dart:

```
import 'package:qr_flutter/qr_flutter.dart';  
import 'package:qr_code_scanner/qr_code_scanner.dart';
```

Step 2: Generate a QR Code

```
QrImage(  
  data: 'https://www.haas.dev',  
  version: QrVersions.auto,  
  size: 200.0,  
)
```

Exercise: Display a QR code for your website inside the app.

Step 3: Scan a QR Code

```
QRView(  
  key: qrKey,  
  onQRViewCreated: (QRViewController controller) {  
    controller.scannedDataStream.listen((scanData) {  
      print('Scanned: ${scanData.code}');  
    });  
  },  
)
```

Exercise: Print the scanned QR code result in the console.

Step 4: Handle Camera Permissions

- Request camera permission using `permission_handler` if needed.
- Ensure proper error handling when camera is denied.

Exercise: Display a message if camera access is denied.

Step 5: Mini Project

Build a **Flutter QR App**:

- Generate QR codes for user input text or URLs
 - Scan QR codes and display results
 - Bonus: Save scanned QR codes history locally
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Key Takeaways

- QR codes improve **user interaction and app functionality**
 - Generating QR codes is simple using `qr_flutter`
 - Scanning QR codes requires **camera integration** and real-time listening
 - Mastering QR features enables **interactive and utility-based Flutter apps**
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Skipping QR integration limits your app's **modern utility features**, especially for payments, links, or quick sharing.

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

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