
Flutter Camera & Image Picker: Capturing Photos and Videos

Subtitle: Learn how to integrate camera functionality and pick images from the gallery in Flutter apps.

Website Name: haas.dev

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

Introduction

Camera and gallery access are essential for apps that **capture photos, videos, or upload media**. Flutter provides plugins to handle camera and image picking efficiently.

Step 1: Add Dependencies

```
dependencies:  
  image_picker: ^1.1.0  
  camera: ^0.11.0
```

Run:

```
flutter pub get
```

Import in Dart:

```
import 'package:image_picker/image_picker.dart';  
import 'package:camera/camera.dart';
```

Step 2: Pick Image from Gallery

```
final ImagePicker _picker = ImagePicker();  
final XFile? image = await _picker.pickImage(source: ImageSource.gallery);  
  
if (image != null) {  
  print('Image path: ${image.path}');  
}
```

Exercise: Add a button to pick an image and display it on the screen.

Step 3: Capture Photo Using Camera

```
final XFile? photo = await _picker.pickImage(source: ImageSource.camera);

if (photo != null) {
  print('Photo path: ${photo.path}');
}
```

Exercise: Capture a photo and show a preview in your app.

Step 4: Capture Video

```
final XFile? video = await _picker.pickVideo(source: ImageSource.camera);

if (video != null) {
  print('Video path: ${video.path}');
}
```

Exercise: Capture a short video and save its path for playback.

Step 5: Mini Project

Build a **Flutter Media App**:

- Pick images from gallery
 - Capture photos using the camera
 - Capture videos and play them
 - Bonus: Save media files to local storage and display in a grid
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Key Takeaways

- ImagePicker provides **easy access to gallery and camera**
 - Camera plugin enables **full control over camera** for advanced use
 - Handling media properly improves **app functionality and UX**
 - Mastering media features is crucial for **social, utility, and content apps**
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Skipping camera and media integration makes your app **less interactive and limits user content creation**.

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

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