
Flutter Video & Audio Playback: Adding Media to Your App

Subtitle: Learn how to play video and audio files in Flutter for rich multimedia experiences.

Website Name: haas.dev

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

Introduction

Multimedia content improves **user engagement**. Flutter allows apps to **play videos, audio files, and streams** using reliable packages.

Step 1: Add Dependencies

```
dependencies:  
  video_player: ^2.6.0  
  just_audio: ^0.9.30
```

Run:

```
flutter pub get
```

Import in Dart:

```
import 'package:video_player/video_player.dart';  
import 'package:just_audio/just_audio.dart';
```

Step 2: Video Playback

```
class VideoScreen extends StatefulWidget {  
  @override  
  _VideoScreenState createState() => _VideoScreenState();  
}  
  
class _VideoScreenState extends State<VideoScreen> {  
  late VideoPlayerController _controller;  
  
  @override
```

```

void initState() {
  super.initState();
  _controller = VideoPlayerController.asset('assets/sample_video.mp4')
    ..initialize().then((_) {
      setState(() {});
      _controller.play();
    });
}

@override
Widget build(BuildContext context) {
  return _controller.value.isInitialized
    ? AspectRatio(
      aspectRatio: _controller.value.aspectRatio,
      child: VideoPlayer(_controller),
    )
    : CircularProgressIndicator();
}

@override
void dispose() {
  _controller.dispose();
  super.dispose();
}
}

```

Exercise: Play a local video file in your Flutter app.

Step 3: Audio Playback

```

final player = AudioPlayer();
await player.setAsset('assets/sample_audio.mp3');
player.play();

```

Exercise: Play a local audio file and stop it on button press.

Step 4: Streaming Media

```

await player.setUrl('https://www.example.com/audio.mp3');
player.play();

```

Exercise: Stream an audio file from the internet.

Step 5: Mini Project

Build a **Flutter Media Player App**:

- Play local and online videos
- Play audio files with play, pause, and stop
- Bonus: Add a playlist and media controls

Key Takeaways

- Video & audio enhance **user experience and engagement**
- `video_player` and `just_audio` simplify media integration
- Streaming support allows **dynamic content playback**
- Mastering media playback is essential for **multimedia apps, music players, and educational apps**

Skipping media integration makes your app **less engaging and static**, reducing retention and interactivity.

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

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