
Flutter Networking: Fetching API Data

Subtitle: Learn how to connect Flutter apps to APIs and display dynamic data.

Website Name: haas.dev

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

Introduction

Most apps need to **fetch data from the internet**. Flutter makes it easy using the `http` package to request APIs and display dynamic content. This guide covers fetching, parsing, and displaying data.

Step 1: Add HTTP Dependency

```
dependencies:  
  http: ^1.1.0
```

Run:

```
flutter pub get
```

Import in Dart:

```
import 'package:http/http.dart' as http;  
import 'dart:convert';
```

Step 2: Fetch Data from API

```
Future<void> fetchData() async {  
  final response = await http.get(Uri.parse('https://jsonplaceholder.typicode.com/...'));  
  if (response.statusCode == 200) {  
    final data = jsonDecode(response.body);  
    print(data);  
  } else {  
    print('Error: ${response.statusCode}');  
  }  
}
```

Exercise: Call `fetchData()` in `initState` and print the results.

Step 3: Display Data in ListView

```
FutureBuilder(  
  future: fetchData(),  
  builder: (context, snapshot) {  
    if (!snapshot.hasData) return CircularProgressIndicator();  
    final posts = snapshot.data as List;  
    return ListView.builder(  
      itemCount: posts.length,  
      itemBuilder: (context, index) {  
        return ListTile(  
          title: Text(posts[index]['title']),  
          subtitle: Text(posts[index]['body']),  
        );  
      },  
    );  
  },  
)
```

Exercise: Display posts from JSONPlaceholder API in a scrolling list.

Step 4: Error Handling

```
try {  
  final response = await http.get(Uri.parse(url));  
  if (response.statusCode != 200) throw Exception('Failed to load data');  
} catch (e) {  
  print('Error: $e');  
}
```

Exercise: Handle network errors and show a friendly message to users.

Step 5: Mini Project

Build a **Flutter API App**:

- Fetch posts from JSONPlaceholder
- Display posts in `ListView` with title and body
- Show loading spinner while fetching

- Handle errors gracefully
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Key Takeaways

- `http` package fetches and parses API data
 - `FutureBuilder` helps display data asynchronously
 - Proper error handling improves **UX and reliability**
 - Networking is essential for **dynamic, real-world apps**
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Skipping networking makes your app **static and unable to access live content**, limiting its usefulness.

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

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