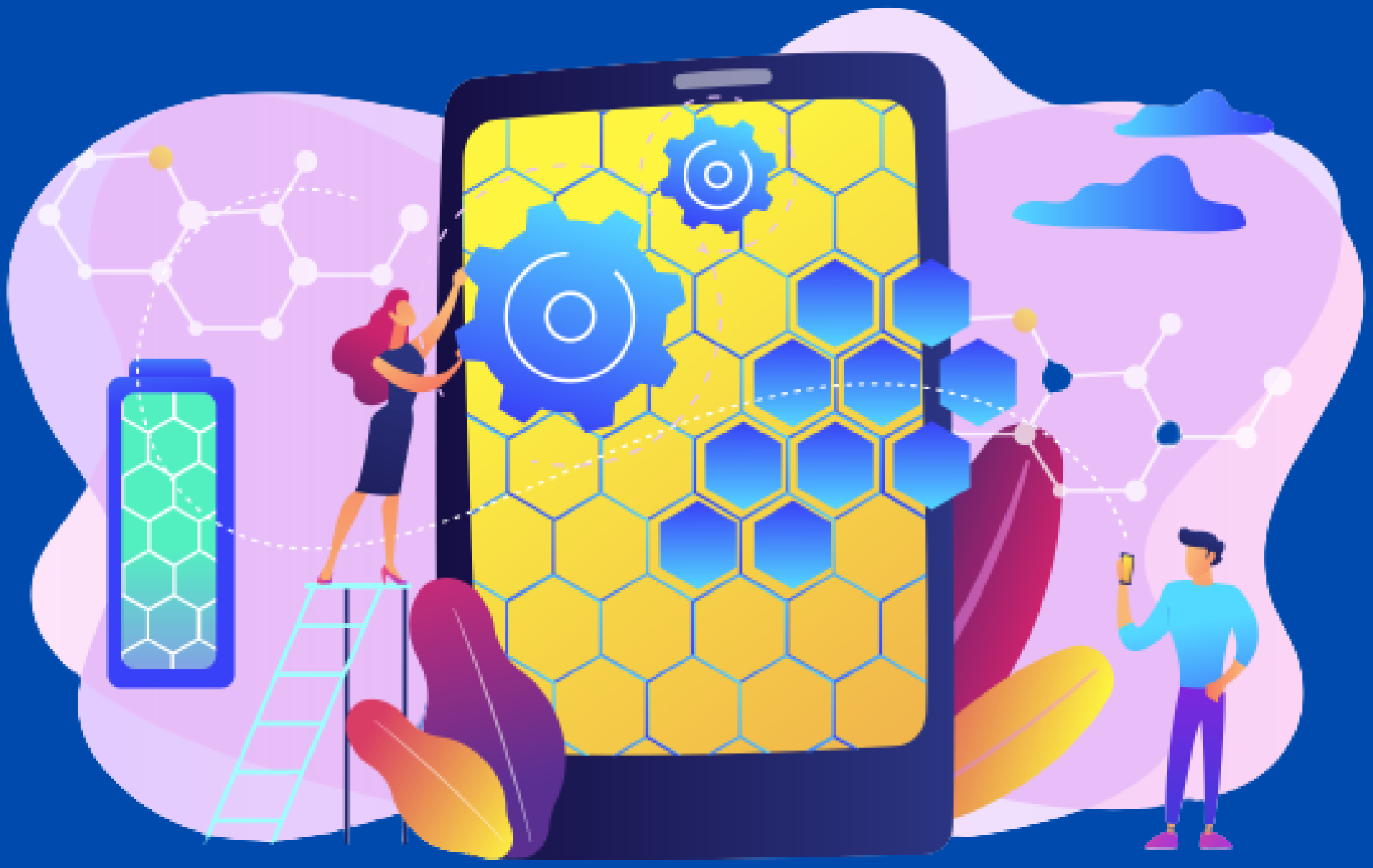
HTTP REQUESTS IN FLUTTER



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HTTP Library

A composable, Future-based library for making HTTP requests.
It's multi-platform, and supports mobile, desktop, and the browser.

Dependency

Add the http package dependency in pubspec.yaml.

```
dependencies:
  http: ^0.13.5
```

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Setup

This article tells how to make HTTP requests using the http package by the Dart team. We will be using JSONPlaceholder as a target for our API example below.

```
GET     /posts
GET     /posts/1
POST    /posts
PUT     /posts/1
PATCH   /posts/1
DELETE  /posts/1
```

GET requests

A GET request is used to get some resource from a server.

```dart
Future<void> makeGetRequest() async {
  final url = Uri.parse('$urlPrefix/posts');
  Response response = await get(url);
  print('Status code: ${response.statusCode}');
  print('Headers: ${response.headers}');
  print('Body: ${response.body}');
}
```

The get method above is part of the http library and makes the actual request. The response that you get back contains the information you need.

POST requests

A POST request is used to create a new resource.

```dart
Future<void> makePostRequest() async {
  final url = Uri.parse('$urlPrefix/posts');
  final headers = {"Content-type": "application/json"};
  final json = '{"title": "Hello", "body": "body text", "userId": 1}';
  final response = await post(url, headers: headers, body: json);
  print('Status code: ${response.statusCode}');
  print('Body: ${response.body}');
}
```

PUT requests

A PUT request is meant to replace a resource or create it if it doesn't exist.

```dart
Future<void> makePutRequest() async {
  final url = Uri.parse('$urlPrefix/posts/1');
  final headers = {"Content-type": "application/json"};
  final json = '{"title": "Hello", "body": "body text", "userId": 1}';
  final response = await put(url, headers: headers, body: json);
  print('Status code: ${response.statusCode}');
  print('Body: ${response.body}');
}
```

PATCH requests

A PATCH request is meant to modify an existing resource.

```dart
Future<void> makePatchRequest() async {
  final url = Uri.parse('$urlPrefix/posts/1');
  final headers = {"Content-type": "application/json"};
  final json = '{"title": "Hello"}';
  final response = await patch(url, headers: headers, body: json);
  print('Status code: ${response.statusCode}');
  print('Body: ${response.body}');
}
```

DELETE requests

A DELETE request is of course for deleting resources.

```dart
Future<void> makeDeleteRequest() async {
  final url = Uri.parse('$urlPrefix/posts/1');
  final response = await delete(url);
  print('Status code: ${response.statusCode}');
  print('Body: ${response.body}');
}
```

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