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Connecting FlutterFlow to Appwrite



Steven Nguyen · [Follow](#)

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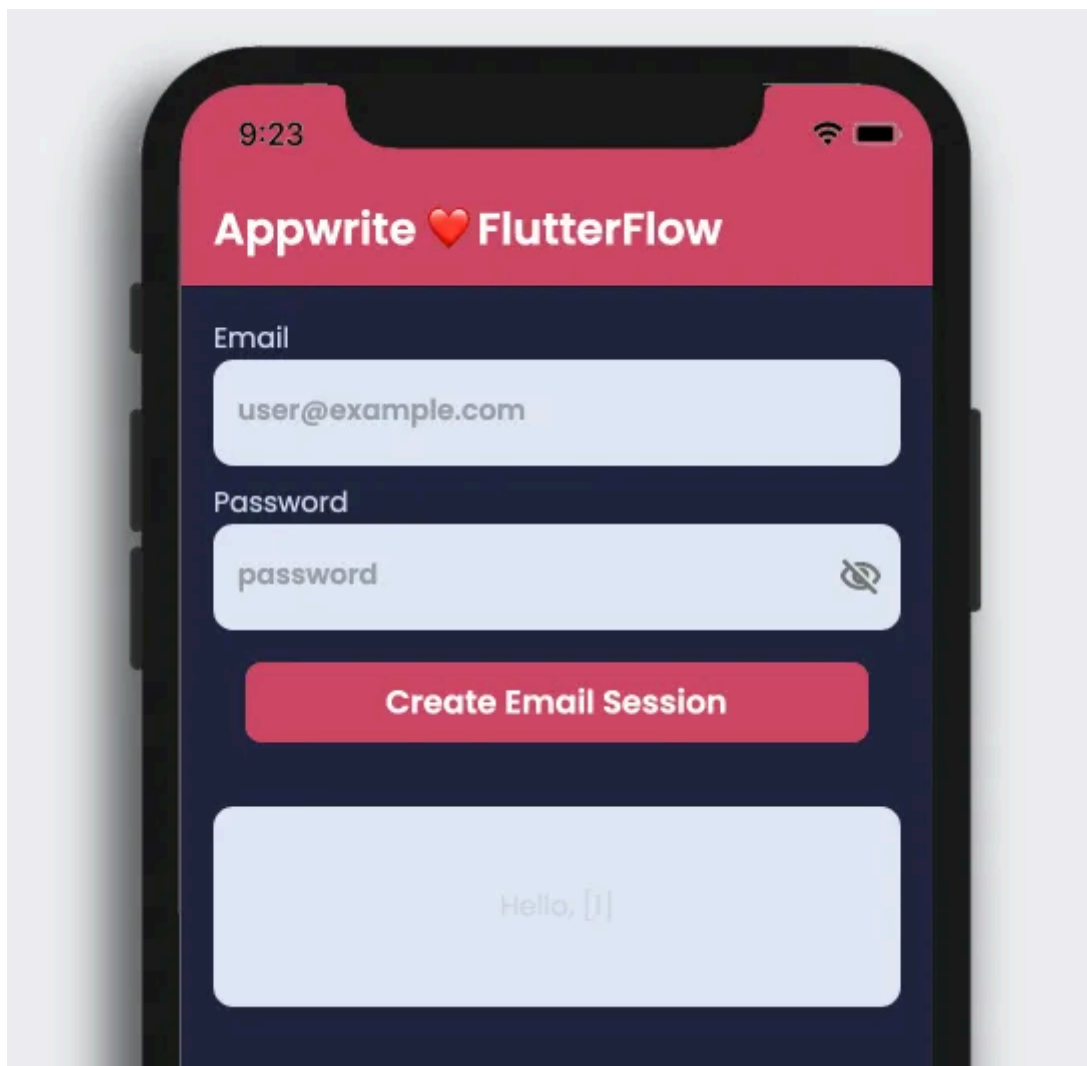
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Appwrite ❤️ FlutterFlow

FlutterFlow is a low-code tool to build and deploy Flutter apps. It has out-of-the-box support for connecting to Firebase, but what if you want to connect to Appwrite instead? Since Appwrite exposes all services via RESTful APIs, it's possible to use

FlutterFlow's [API Calls](#) to connect to Appwrite. Let's make a sample app to see how it's done!



Screenshot of app

The app we'll build will allow a user to enter their email and password and create an email session. After creating an email session, the text box below will show "Hello, [user's name]." To see it in action, click [here](#) and log in with `user@example.com` and `password`.

Local State

To start, we'll create variables to reuse for various API Calls.

Local State

[+ Add State Variable](#)[Open in app ↗](#)**S**

Field Name projectId	Data Type String	Persisted false	Default Value projectId Tt [PROJECT ID]	
Field Name endpoint	Data Type String	Persisted false	Default Value endpoint Tt https://[HOSTNAME OR IP]/v1	
Field Name responseFormat	Data Type String	Persisted false	Default Value responseFormat Tt 1.0.0	
Field Name session	Data Type String	Persisted true	Default Value Tt session	
Field Name account	Data Type Json	Persisted false	Default Value account - JSON	

Local State

Create the following:

- **projectId** : Appwrite Project ID
 - Data Type: String
 - Persisted: False
 - Default Value: Your Appwrite Project ID
- **endpoint** : Appwrite Endpoint
 - Data Type: String
 - Persisted: False
 - Default Value: Your Appwrite Endpoint
- **responseFormat** : Appwrite uses this value to help with backward compatibility
 - Data Type: String
 - Persisted: False
 - Default Value: 1.0.0
- **session** : Used to persist the session after successfully logging in
 - Data Type: String
 - Persisted: True

- `account` : Used to store the account after fetching it with a session
 - Data Type: Json
 - Persisted: False

API Calls

The next step is to create the API Calls. Appwrite's REST APIs are all documented on the [docs](#). The essential part for FlutterFlow is the headers:

- `X-Appwrite-Project` : Project ID
- `X-Appwrite-Response-Format` : Expected Appwrite version response format
- `X-Fallback-Cookies` : Appwrite sessions are typically stored in cookies, but the `x-Fallback-Cookies` header is also used when Appwrite and the app are on different domains

Account Create Email Session

FlutterFlow will use this API Call to create the Appwrite session.

Define API Call

Provide the name and configuration for this API call.

Call Definition Response & Test

API Call Name

Account Create Email Session

Method Type **API URL** ⓘ

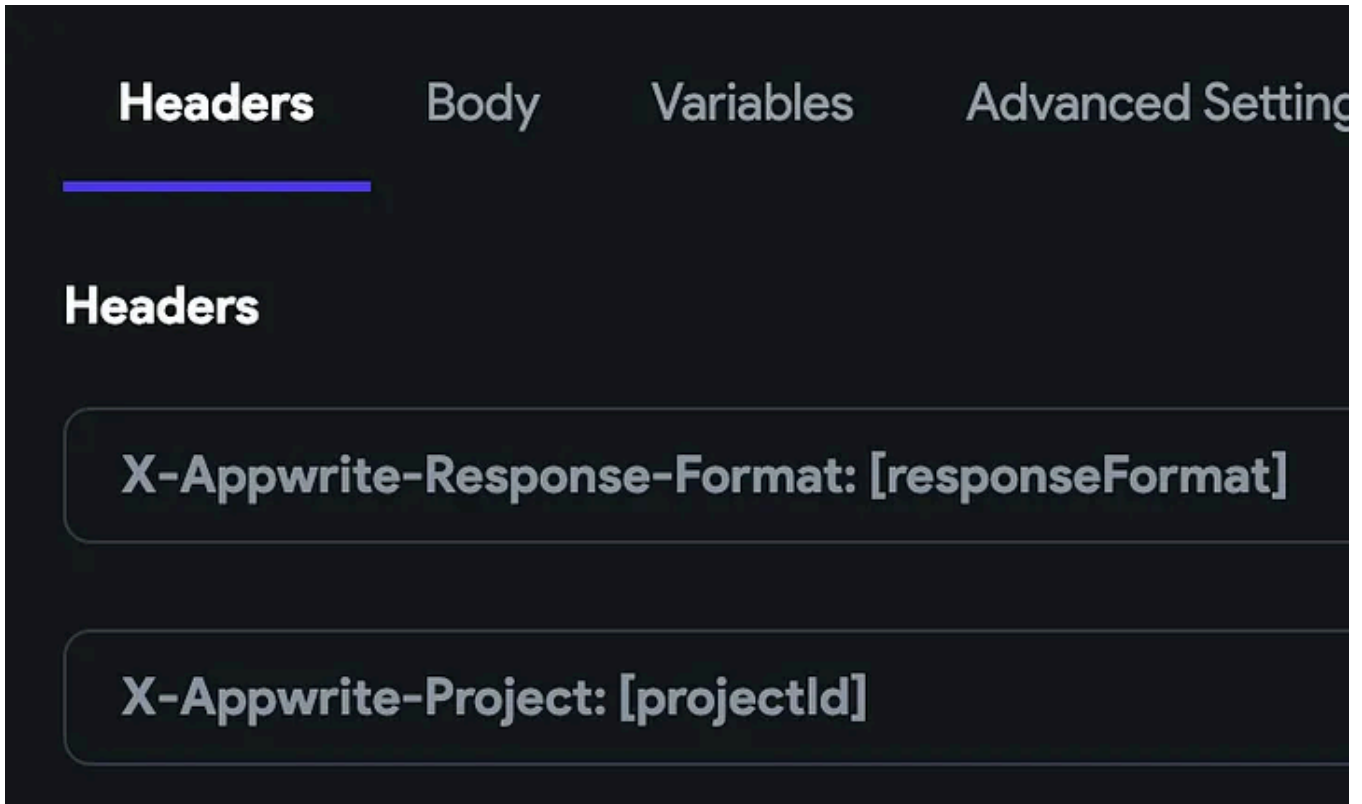
POST [endpoint]/account/sessions/email

Account Create Email Session API Call

- **API Call Name:** Account Create Email Session

- Method Type: POST
- API URL: [endpoint]/account/sessions/email

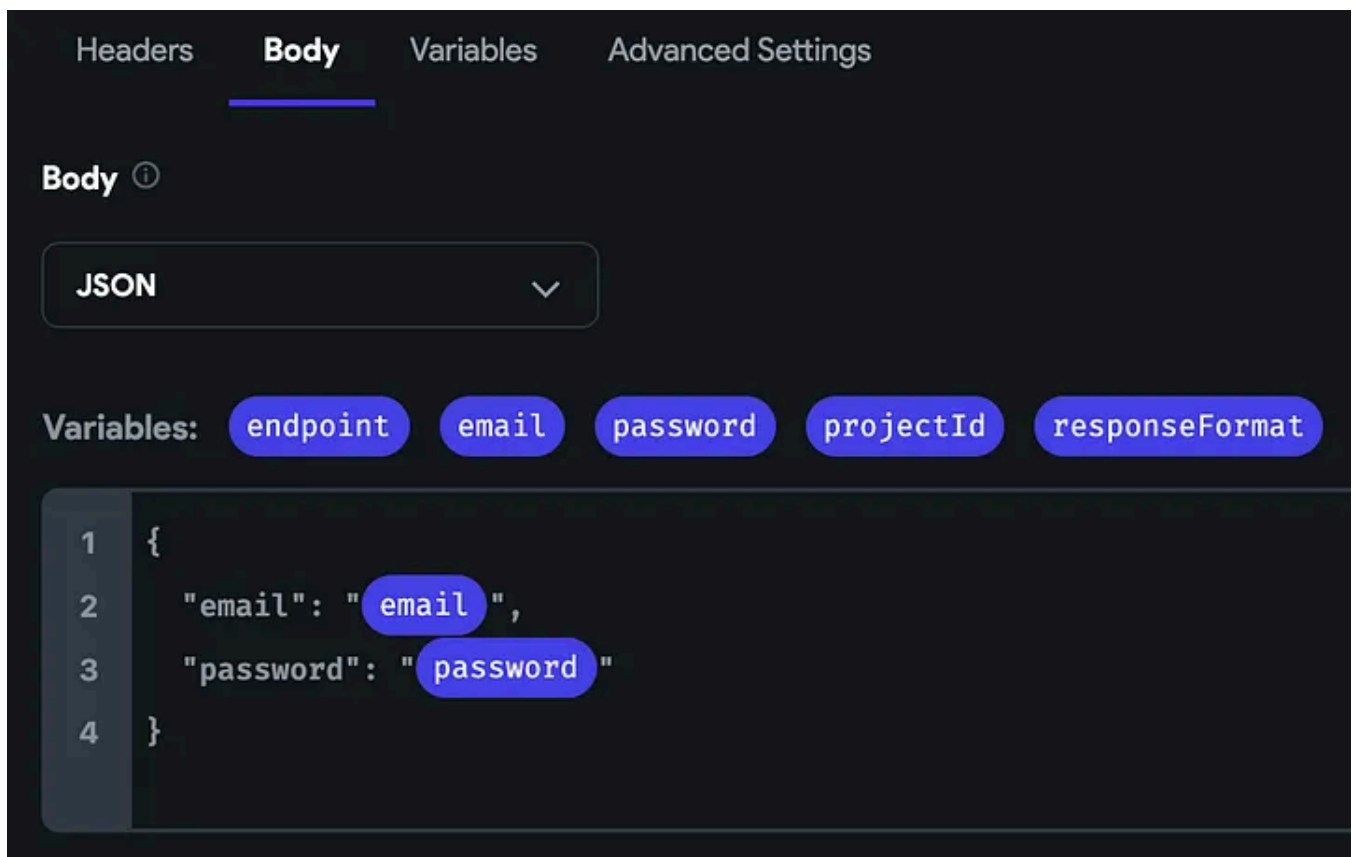
Headers



Account Create Email Session Headers

- X-Appwrite-Response-Format: [responseFormat]
- X-Appwrite-Project: [projectId]

Body



Account Create Email Session Body

```
{
  "email": "<email>",
  "password": "<password>"
}
```

Variables

HeadersBodyVariablesAdvanced Settings

Variables ⓘ

Name	Type	Is List ⓘ	Default Value
endpoint	String	False	
email	String	False	
password	String	False	
projectId	String	False	
responseFormat	String	False	

Account Create Email Session Variables

- endpoint
 - Type: String
- email
 - Type: String
- password
 - Type: String
- projectId
 - Type: String
- responseFormat
 - Type: String

Account Get

This API Call gets the user's account using the previously created session. You can duplicate the Account Create Email Session API Call and update it accordingly.

Define API Call

Provide the name and configuration for this API call.

Call Definition

Response & Test

API Call Name

Account Get

Method Type

GET



API URL ⓘ

[endpoint]/account

Account Get API Call

- API Call Name: Account Get
- Method Type: GET
- API URL: [endpoint]/account

Headers

The new header here is the `X-Fallback-Cookies` header.

Headers

Query Parameters

Variables

Advanced

Headers

X-Appwrite-Response-Format: [responseFormat]

X-Appwrite-Project: [projectId]

X-Fallback-Cookies: [session]

Account Get Headers

- X-Appwrite-Response-Format: [responseFormat]
- X-Appwrite-Project: [projectId]
- X-Fallback-Cookies: [session]

Variables

Headers

Query Parameters

Variables

Advanced Settings

Variables ⓘ

Name	Type	Is List ⓘ	Default Value
<input type="text" value="endpoint"/>	<div>String</div>	<div>False</div>	<input type="text"/>
<input type="text" value="projectId"/>	<div>String</div>	<div>False</div>	<input type="text"/>
<input type="text" value="responseFormat"/>	<div>String</div>	<div>False</div>	<input type="text"/>
<input type="text" value="session"/>	<div>String</div>	<div>False</div>	<input type="text"/>

Account GetVariables

- endpoint
— Type: String
- projectId
— Type: String
- responseFormat
— Type: String
- session
— Type: String

Using the API Calls

To use the Account Create Email Session API Call, add the API Call to an Actions Flow, passing in the appropriate variables and storing the result in a variable named `session`.

Define Action



Action 1



Backend Call **API**



Group or Call Name ⓘ

Account Create Email Session



Edit API Call

Variables ⓘ

endpoint



projectId



responseFormat



email



password >

Action Output Variable Name ⓘ

session X

Account Create Email Session Action

After the API Call is successful, store the session in local state. The critical part is to grab the `x-fallback-cookies` headers (case sensitive).

Define Action



Action 3



Update Local State



Select field to update

session - (String)



Select Update Type

Set Value



Value to set



Value Source

From Variable



session -> Header -> "x-fallback-cookies"



You can then use the `session` in any other API Call to Appwrite.

Define Action




Action 5



Backend Call **API**



Group or Call Name 

Account Get



Edit API Call

Variables

endpoint



projectId



session



responseFormat



Action Output Variable Name ⓘ

account



Account Get Action

Conclusion

That's it! With these 2 API Calls implemented, you can duplicate them to create any other API calls needed. To get this sample running quickly, check out the [Appwrite ❤ FlutterFlow Template App in the FlutterFlow Marketplace](#). If you run into any problems, feel free to comment below!

Appwrite

Flutter

Flutterflow

Low Code

Baas



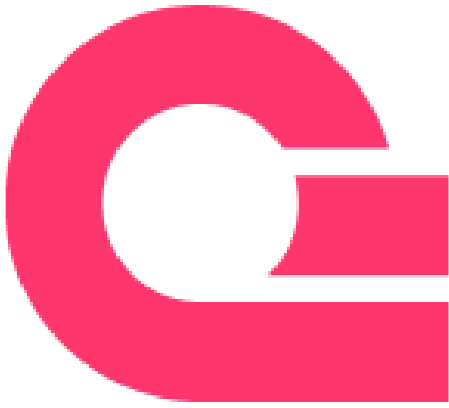
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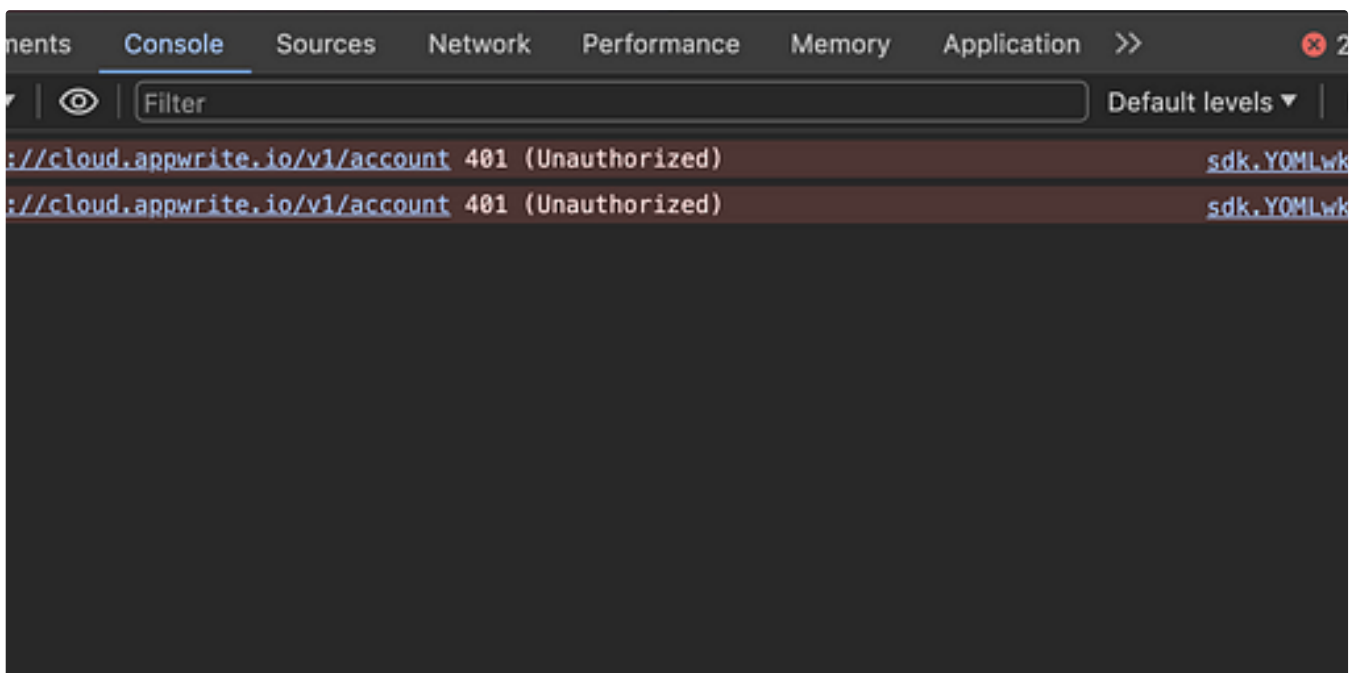
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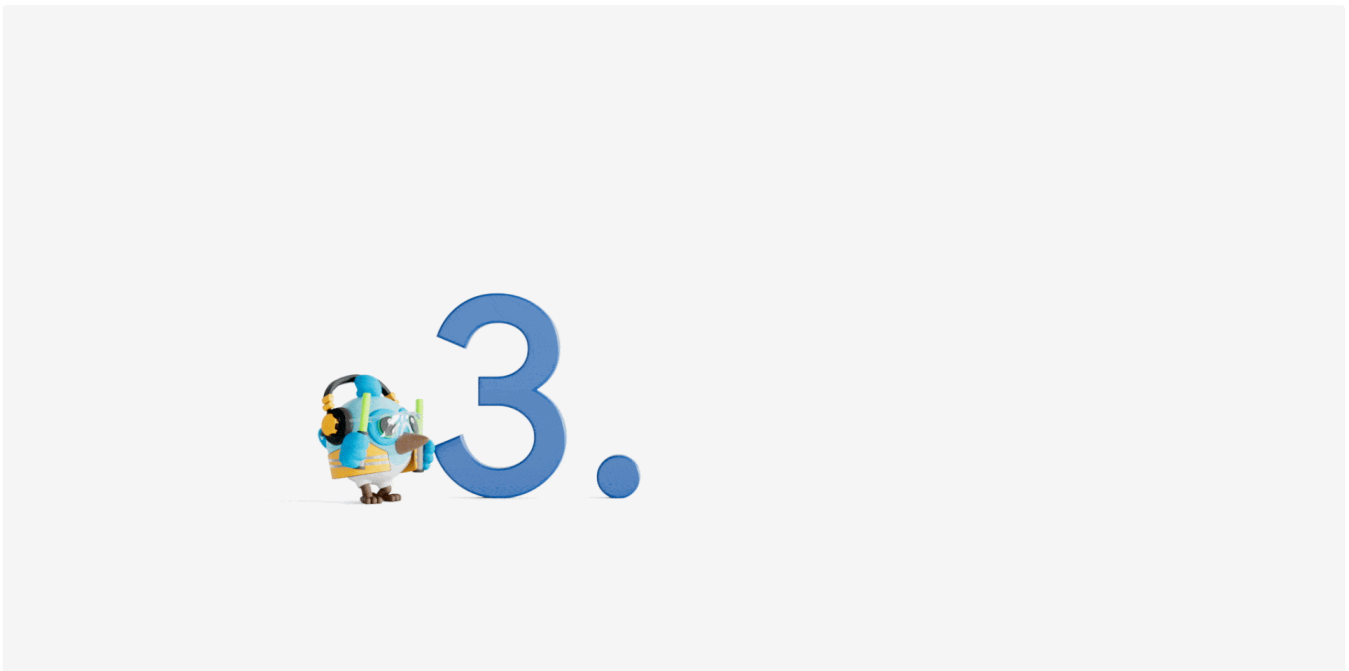
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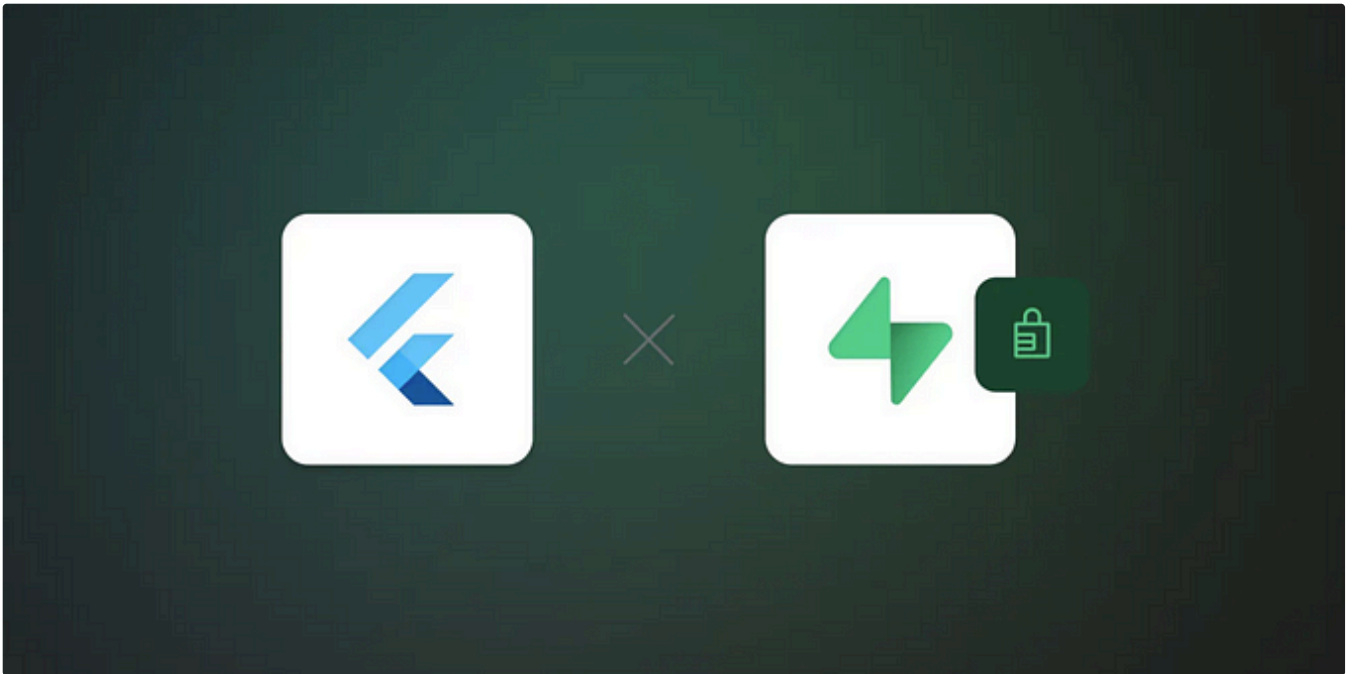


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