

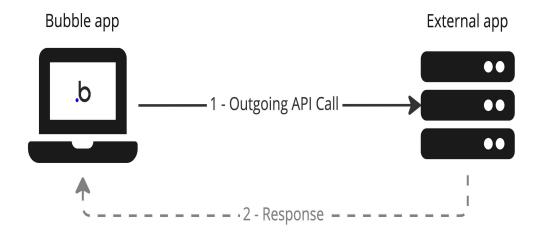
API Integration in Bubble.io

What do you mean by Bubble.io?

Bubble.io is a no-code web development platform that allows you to make custom web applications without need for extensive coding expertise. With Bubble, users can drag-and-drop visual elements to create their application's user interface, define workflows and logic using a visual editor, and integrate with external services using APIs. Bubble provides a powerful and flexible platform that allows users to build sophisticated web applications quickly and easily.

What is the API?

API stands for Application Programming Interface. The API allows developers to interact with any applications programmatically. The API provides endpoints that allow you to read, write and modify data in the application. By integrating the API with mobile apps, websites, or other software applications, you can extend the functionality of your application. The API communicates with applications through HTTP requests. The API supports common HTTP methods such as GET, POST, PUT, PATCH, and DELETE, and its response results in JSON format.



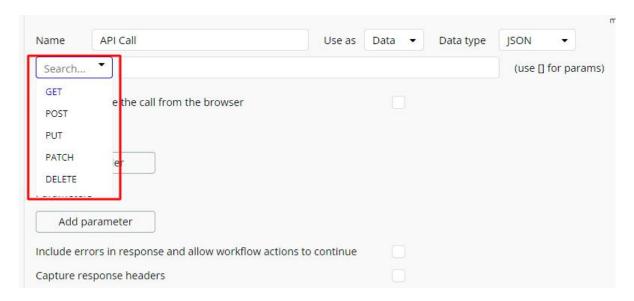
Data can be retrieved from the application through the API, new records can be created, existing records can be updated, and can be deleted. You can also use the API to trigger the workflow in your application, allowing you to automate tasks and streamline your workflow processes.

Bubble provides developers with a powerful tool for integrating API or building custom software solutions based on applications.

The HTTP requests

HTTP methods specify the kind of action we want the server to initiate when we make a call to a specific resource.

Action	Description	Bubble equivalent
GET	Retrieve data	Do a Search for
POST	Create data	Create a new Thing
PUT	Update data	Make changes to a Thing
PATCH	Replace data	Make changes to a Thing
DELETE	Delete data	Delete a Thing



Instructions to set up the External API in the Bubble application:

In Bubble, we have an API connector plugin to integrate the external API in the Bubble applications. This plugin is provided by Bubble to integrate external APIs, you can install it from the plugin section.

To install the plugin:

- 1. Navigate to the plugin section of the Bubble editor and click Add plugin.
- 2. Search for API Connector
- 3. Click the install button
- 4. Click Done.



The API Connector is a special plugin developed by Bubble's development team that allows you to connect to external API. This can be used to post data, trigger actions on a service, or you can fetch data from an external service.

Most APIs will go through three steps before they can be used:

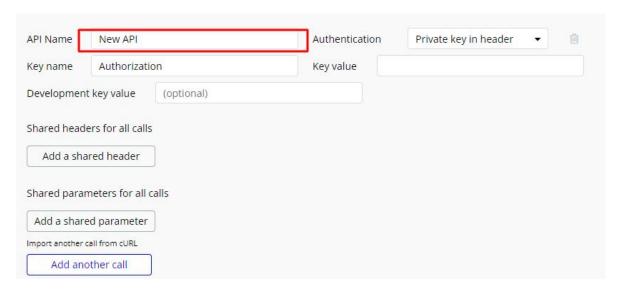
- 1. Firstly, set up the authentications for the API service
- 2. Secondly, we set up the different calls we want to use

3. Then we initialize the call to make sure it works and see the server's response

For a New API request, you need to click on the Add another API.

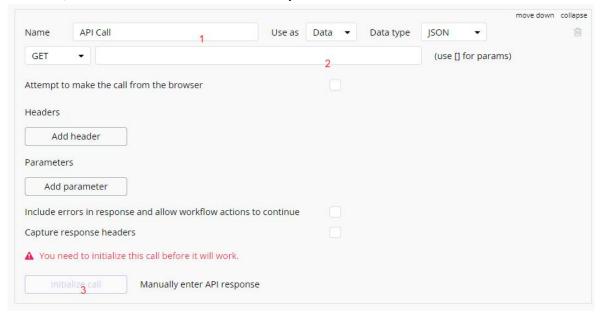
New API request

When setting up a new API request begins with naming the service. As part of setting up an API request, the first step is to give the API a descriptive name.



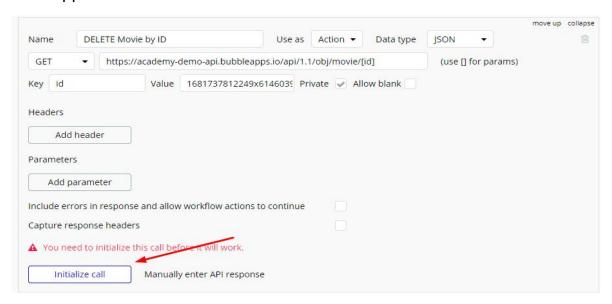
Add another call

Also, for make another call in API you need to click on add another call.



Initialize Call

After added API URL then click on the initialize call button to see the API result in the application.

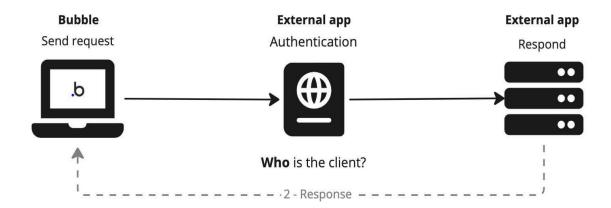


In case your call was successful, you will see the popup below. Once you have accepted the API response, click Save.

You can modify the data types that are returned by the call you chose 'Ignore field', the fields won't be shown in the dr	-	c. II
response_id 1682322189563x296910943771139460	text	·
response title Batman Begins PATCH	text	•
response Created By 1681714484210x964863879181386900	text	•]
response Created Date 2023-04-24T07:43:09.571Z	text	▼
response Modified Date 2023-04-24107-43-41-422Z	text	→ 96
response running time	number	•
response streaming true	yes / no	•
response tagline The Legend Begin	text	•
Show raw data		

API Authentication

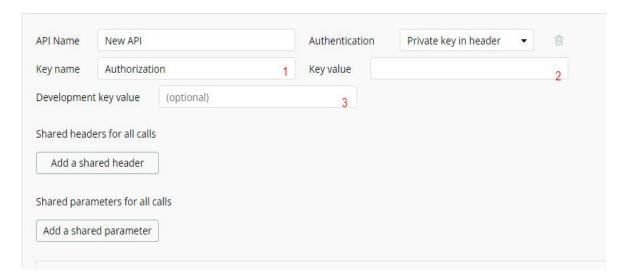
The API needs to authenticate you to know who you are, and then it will decide if you are authorized to make requests with it.



Authentication methods

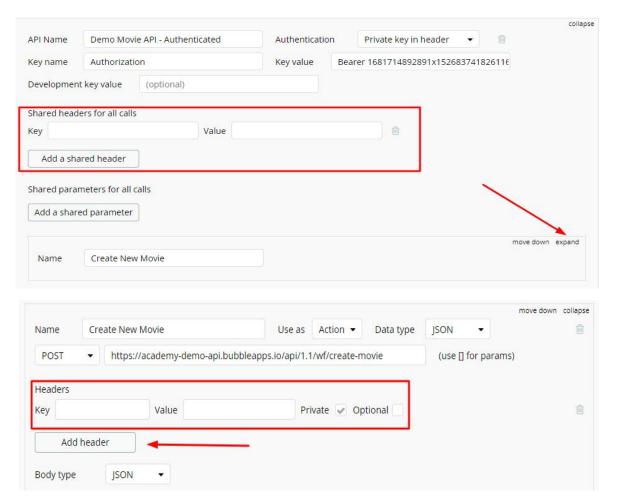
You can authenticate in many ways. A unique API token is required for authentication and is specified in the API documentation. There are many ways to authenticate.

Method	Description	
None or self-handled	No authentication required	
Private key in URL	The private key is included as a parameter in the URL	
Private key in header	The private key is included as an HTTP Header in the request	
HTTP Basic Auth	The client sends username and password in plain text	
OAuth 2 Password Flow	The client sends username and password and receives an access	
	token in return	
OAuth 2 User-Agent Flow	Similar to OAuth2 Password Flow, but for user-agent	
OAuth2 Custom Token	The client sends a custom token to the server for verification	
JSON Web Token	The client sends a JSON web token to the server for verification	
Client-side SSL certificate	The client presents an SSL certificate to the server for verification	



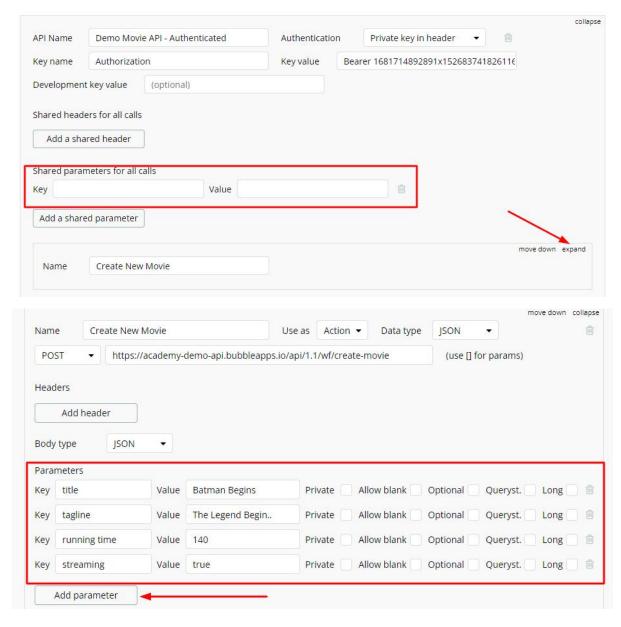
Shared headers

A shared header will be included in every API call. The "add a shared header" button allows you to define headers for all calls, you can define headers for individual calls. Click to expand the link below the "add a shared header" button to define headers for individual calls.



Shared Parameters

A shared parameter will be included in every API call, similarly to the header described above. The "add a shared parameter" button allows you to define parameters for all calls, you can define parameters for individual calls. Click to expand link below the "add a shred parameter" button to define parameters for individual calls.

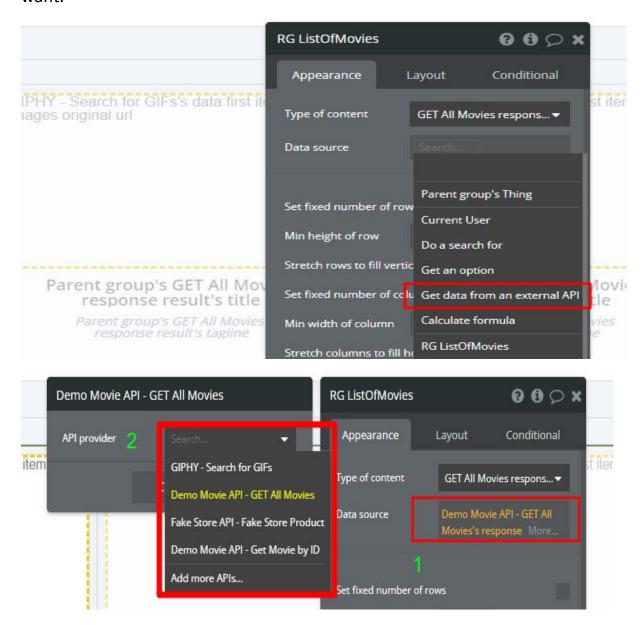


Use as

The Use as dropdown lets you select whether to use that API call as a data source or an action:

Data

Use as data mean that the Bubble will treat the API call as data source. Click on "Get data from an external API" then you can select an API to get data you want.



Action

Use as the action makes the API call available as an action in your workflow editor. Click the "click here to add an action..." block, click Plugins, and select which action you want to run.

