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How to POST and Receive JSON Data using PHP cURL

By: CodexWorld │In: PHP (https://www.codexworld.com/tutorials/php/) │Last Updated: Feb 25, 2021
:odexqa.com/questions/ask?reflink=https://www.codexworld.com/post-receive-json-data-using-php-curl/)

JSON is the most popular data format for exchanging data between a browser and a server. The JSON data format is mostly used in web services to interchange data through API. When you working with web services and APIs, sending **JSON data via POST** request is the most required functionality. **PHP cURL** makes it easy to POST JSON data to URL. In this tutorial, we will show you how to **POST JSON data** using PHP cURL and **get JSON data** in PHP.

Send JSON data via POST with PHP cURL

The following example makes an HTTP POST request and send the JSON data to URL with **cURL in PHP**.

- Specify the URL (`$url`) where the JSON data to be sent.
- Initiate new cURL resource using **curl_init()**.
- Setup data in PHP array and encode into a JSON string using **json_encode()**.
- Attach JSON data to the POST fields using the CURLOPT_POSTFIELDS option.
- Set the Content-Type of request to `application/json` using the CURLOPT_HTTPHEADER option.
- Return response as a string instead of outputting it using the CURLOPT_RETURNTRANSFER option.
- Finally, the **curl_exec()** function is used to execute the POST request.

```php
// API URL
$url = 'http://www.example.com/api';

// Create a new cURL resource
$ch = curl_init($url);

// Setup request to send json via POST
$data = array(
    'username' => 'codexworld',
    'password' => '123456'
);
$payload = json_encode(array("user" => $data));

// Attach encoded JSON string to the POST fields
curl_setopt($ch, CURLOPT_POSTFIELDS, $payload);

// Set the content type to application/json
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type:application/json'));

// Return response instead of outputting
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

// Execute the POST request
$result = curl_exec($ch);

// Close cURL resource
curl_close($ch);
```

Receive JSON POST Data using PHP

The following example shows how you can get or fetch the JSON POST data using PHP.

- Use **json_decode()** function to decoded JSON data in PHP.

- The **file_get_contents()** function is used to received data in a more readable format.

```php
$data = json_decode(file_get_contents('php://input'), true);
```

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Harshana Malshan Said...

This is a very useful article for all HPP developers.

 October 29, 2021 at 9:48 AM

Marco Said...

Hi i not understand this point:

$payload = json_encode(array("user" => $data));
what is user? is a name for array data?

October 17, 2020 at 3:12 PM

Tracy Said...

Thank you so much. Finally getting a response has made my day

May 30, 2020 at 3:06 AM

Marcelo Said...

Perfect! Thank very mush.

May 28, 2020 at 5:57 PM

Saad Said...

It's really helpful

December 11, 2019 at 9:24 AM

Mohamed Amine Modni Said...

what about sending a GET request with a json data ?

December 8, 2019 at 7:35 PM

Chuck Said...

Short and sweet. Thank you for the post, this helped me get up and running quickly

November 22, 2019 at 6:25 PM

Mateus Said...

Great !!!

May 13, 2019 at 3:05 PM

George K Said...

Thank you

May 8, 2019 at 6:55 PM

Rustem Zakiev Said...

Thank you! Very helpful!

April 26, 2019 at 11:27 AM

Harpreet Kaur Said...

Its very helpful for me Thank you!

 November 1, 2018 at 5:23 AM

Amir Said...

how we can send and receive a file?

 April 11, 2018 at 4:56 AM

Swati Said...

It was helpful, thankss!!

 January 24, 2018 at 5:48 AM

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