PHP Microservices Framework

Basics and fundamentals

By Ramesh N Jangid

HTTP request methods

Supported HTTP methods by **HTML <form> tag**

- GET

- POST

  - application/x-www-form-urlencoded: The initial default type.

  - multipart/form-data: The type that allows file <input> element(s) to upload file data.

  - text/plain: Ambiguous format, human-readable content not reliably interpretable by computer.

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Javascript - HTTP request

```
var handlerUrl = "/ajax-handler"; // print_r ($_POST);
var xmlhttp = new XMLHttpRequest();

xmlhttp . open( "POST", handlerUrl );
xmlhttp . setRequestHeader('Content-type', 'application/x-www-form-urlencoded');

xmlhttp . onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
        alert ( this.responseText ); // proper key/value result
    }
};

var params = "key1=value1&key2=value2%3D"; // key and values are escaped (urlencoded)

xmlhttp . send( params );
```

```
$_POST=Array
(
    [key1] => value1
    [key2] => value2=
)
```

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Open Systems Interconnection

OSI layers

- *Application layer*

- *Presentation layer*

- *Session layer*

- Transport layer

- Network layer

- Data link layer

- Physical layer

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Javascript - HTTP POST request

```
var handlerUrl = "/ajax-handler"; // print_r ($_POST);
var xmlhttp = new XMLHttpRequest();

xmlhttp . open( "POST", handlerUrl );
xmlhttp . setRequestHeader("Content-Type", "application/json; charset=UTF-8");

xmlhttp . onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
        alert ( this.responseText ); // empty array
    }
};

var params = JSON . stringify ( { "Payload" : { "key1" : "Value1" } } );

xmlhttp . send( params );
```

$_POST=Array
(
)

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Javascript - HTTP POST request

- $_POST is for form data, while json data (application/json) should be gotten from the raw input.

- To get the the raw input you need to file_get_contents("php://input");

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HTTP request methods

Supported HTTP methods by **Javascript**

- OPTIONS
  - **GET**
  - **POST**
    - *PUT*
    - *PATCH*
    - *DELETE*
  - HEAD

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HTTP request methods

Supported HTTP methods by **Javascript** usage

- OPTIONS - returns supported HTTP methods

  - **GET** - retrieves data

  - **POST** - adds data

    - *PUT - updates all data*

    - *PATCH - updates partial data*

    - *DELETE - deletes specified data*

  - HEAD - headers response identical to GET request

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Data available as on PHP end

- GET

  - $_GET

- POST

  - $_GET

  - $_POST - $_POST is for form data

- POST / PUT / PATCH / DELETE

  - $_GET

  - Streams

    - $payload = json_decode (file_get_contents (**"php://input"**), true) ;

    - $fp = fopen (**"php://input"**, 'rb') ; // file upload.

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Application Demo

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Configuration - Normal

- Single Object

```
"Payload" : {
    "key1" : "value1",
    "key2" : "value2",
}
```

- Array of Objects

```
"Payload" : [
    {
        "key1" : "value11",
        "key2" : "value12",
    },
    {
        "key1" : "value21",
        "key2" : "value22",
    }
]
```

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Configuration - Hierarchy

```
"Payload" : {
    "key11" : "value11",
    "key12" : "value12",
    "key13" : [
        {
            "key21" : "value211",
            "key22" : "value212",
        },
        {
            "key21" : "value221",
            "key22" : "value222",
        }
    ]
}
```

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Thank you !

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