HttpClient.PostAsync Method

4 5 Reference



Definition

Namespace: System.Net.Http Assembly: System.Net.Http.dll

Send a POST request to the specified Uri as an asynchronous operation.

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PostAsync(String, HttpContent, CancellationToken)

PostAsync(Uri, HttpContent, CancellationToken)

PostAsync(String, HttpContent)

PostAsync(Uri, HttpContent)

Overloads

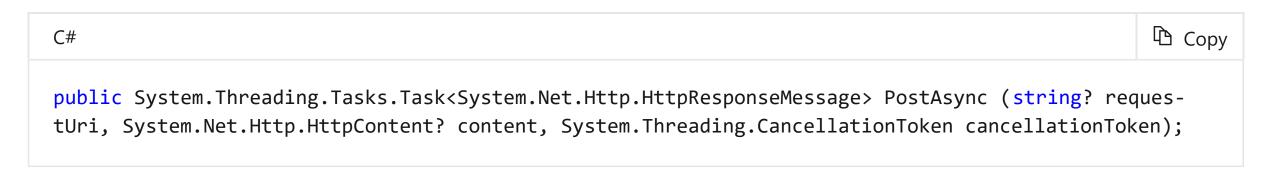
PostAsync(String, HttpContent, CancellationToken)	Send a POST request with a cancellation token as an asynchronous operation.
PostAsync(Uri, HttpContent, CancellationToken)	Send a POST request with a cancellation token as an asynchronous operation.
PostAsync(String, HttpContent)	Send a POST request to the specified Uri as an asynchronous operation.
PostAsync(Uri, HttpContent)	Send a POST request to the specified Uri as an asynchronous operation.

Remarks

This operation will not block.

PostAsync(String, HttpContent, CancellationToken)

Send a POST request with a cancellation token as an asynchronous operation.



Parameters

requestUri String

The Uri the request is sent to.

content HttpContent

The HTTP request content sent to the server.

cancellationToken CancellationToken

A cancellation token that can be used by other objects or threads to receive notice of cancellation.

Returns

Task<HttpResponseMessage>

The task object representing the asynchronous operation.

Exceptions

InvalidOperationException

The requestUri must be an absolute URI or BaseAddress must be set.

HttpRequestException

The request failed due to an underlying issue such as network connectivity, DNS failure, server certificate validation or timeout.

TaskCanceledException

.NET Core and .NET 5 and later only: The request failed due to timeout.

Remarks

This operation will not block. The returned Task<TResult> object will complete after the whole response (including content) is read.

① Note

In case of timeout, different exceptions are thrown on different .NET implementations.

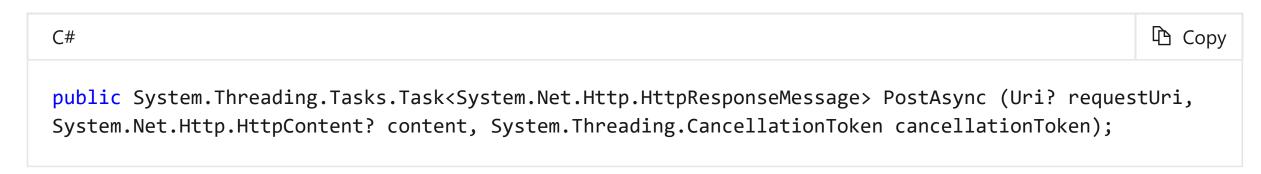
- HttpRequestException is thrown on all applicable .NET Framework versions.
- TaskCanceledException without any inner exception is thrown on all applicable .NET Core versions.
- TaskCanceledException that nests a TimeoutException is thrown on .NET 5 and later versions.

Applies to

▶ .NET 6 and other versions

PostAsync(Uri, HttpContent, CancellationToken)

Send a POST request with a cancellation token as an asynchronous operation.



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PostAsync(String, HttpContent)

Send a POST request to the specified Uri as an asynchronous operation.

public System.Threading.Tasks.Task<System.Net.Http.HttpResponseMessage> PostAsync (string? requestUri, System.Net.Http.HttpContent? content);

Parameters

requestUri String

The Uri the request is sent to.

content HttpContent

The HTTP request content sent to the server.

Returns

Task<HttpResponseMessage>

The task object representing the asynchronous operation.

Exceptions

InvalidOperationException

The requestUri must be an absolute URI or BaseAddress must be set.

HttpRequestException

The request failed due to an underlying issue such as network connectivity, DNS failure, server certificate validation or timeout.

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PostAsync(Uri, HttpContent)

Send a POST request to the specified Uri as an asynchronous operation.

C#

public System.Threading.Tasks.Task<System.Net.Http.HttpResponseMessage> PostAsync (Uri? requestUri,
System.Net.Http.HttpContent? content);

Parameters

requestUri Uri

The Uri the request is sent to.

content HttpContent

The HTTP request content sent to the server.

Returns

Task<HttpResponseMessage>

The task object representing the asynchronous operation.

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Recommended content

Send a GET request to the specified Uri as an asynchronous operation.

HttpClient.DefaultRequestHeaders Property (Windows.Web.Http) - Windows UWP applications

Gets a collection of headers that should be sent with each request. For programming guidance for the HttpClient class, and code examples, see the HttpClient conceptual topic.

HttpClient Class (System.Net.Http)

Provides a class for sending HTTP requests and receiving HTTP responses from a resource identified by a URI.

HttpContent.ReadAsStringAsync Method (System.Net.Http)

Serialize the HTTP content to a string as an asynchronous operation.

StringContent Class (System.Net.Http)

Provides HTTP content based on a string.

FormUrlEncodedContent Class (System.Net.Http)

A container for name/value tuples encoded using application/x-www-form-urlencoded MIME type.

HttpResponseMessage Class (System.Net.Http)

Represents a HTTP response message including the status code and data.

AuthenticationHeaderValue Constructor (System.Net.Http.Headers)

Initializes a new instance of the AuthenticationHeaderValue class.

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