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Documentation ...

URLSession
URLSessionUploadTasl
Language: Swift

URLSessionUploadTask

A URL session task that uploads data to the network in a request body.

Declaration

class URLSessionUploadTask : URLSessionDataTask

Overview

The URLSessionUploadTask class is a subclass of URLSessionDataTask, which in turn is a concrete subclass of URLSessionTask. The methods associated with the URLSession UploadTask class are documented in URLSessionTask.

Upload tasks are used for making HTTP requests that require a request body (such as POST or PUT). They behave similarly to data tasks, but you create them by calling different methods on the session that are designed to make it easier to provide the content to upload. As with data tasks, if the server provides a response, upload tasks return that response as one or more NSData objects in memory.

Note

Unlike data tasks, you can use upload tasks to upload content in the background.

When you create an upload task, you provide a URLRequest instance that contains any additional headers that you might need to send alongside the upload, such as the content type, content disposition, and so on. In iOS, when you create an upload task for a file in a background session, the system copies that file to a temporary location and streams data from there.

While the upload is in progress, the task calls the session delegate's urlSession(_:task:didSendBodyData:totalBytesSent:totalBytesExpectedToSend:) method periodically to provide you with status information.

When the upload phase of the request finishes, the task behaves like a data task, calling methods on the session delegate to provide you with the server's response—headers, status code, content data, and so on.

SDKs

iOS 7.0+

macOS 10.9+

tvOS 9.0+

watchOS 2.0+

Framework

Foundation

On This Page

Declaration \odot

Overview 🛇

Relationships 🛇

See Also ⊙

Relationships

Inherits From	URLSessionDataTask
Conforms To	CVarArg, Equatable, Hashable

See Also

Adding Upload Tasks to a Session

func uploadTask(with: URLRequest, from: Data) -> URLSession
UploadTask

Creates a task that performs an HTTP request for the specified URL request object and uploads the provided data.

func uploadTask(with: URLRequest, from: Data?, completion
Handler: (Data?, URLResponse?, Error?) -> Void) -> URLSession
UploadTask

Creates a task that performs an HTTP request for the specified URL request object, uploads the provided data, and calls a handler upon completion.

func uploadTask(with: URLRequest, fromFile: URL) -> URLSession
UploadTask

Creates a task that performs an HTTP request for uploading the specified file.

func uploadTask(with: URLRequest, fromFile: URL, completion
Handler: (Data?, URLResponse?, Error?) -> Void) -> URLSession
UploadTask

Creates a task that performs an HTTP request for uploading the specified file, then calls a handler upon completion.

func uploadTask(withStreamedRequest: URLRequest) -> URLSession
UploadTask

Creates a task that performs an HTTP request for uploading data based on the specified URL request.

protocol URLSessionDataDelegate

A protocol defining methods that URL session instances call on their delegates to handle task-level events specific to data and upload tasks.