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Documentation ...

URLSession
URLSessionTaskDelega
Language: Swift ✓

URLSessionTaskDelegate

A protocol defining methods that URL session instances call on their delegates to handle task-level events.

SDKs

iOS 7.0+

macOS 10.9+

tvOS 9.0+

watchOS 2.0+

Framework

Foundation

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Declaration

protocol URLSessionTaskDelegate

Overview

If you're using download tasks, also implement the methods in the URLSessionDownload Delegate protocol.

If you're using data or upload tasks, also implement the methods in the URLSessionData Delegate protocol.

Note

Your URLSession object doesn't need to have a delegate. If no delegate is assigned, a system-provided delegate is used, and you must provide a completion callback to obtain the data.

Topics

Handling Task Life Cycle Changes

func urlSession(URLSession, task: URLSessionTask, didComplete
WithError: Error?)

Tells the delegate that the task finished transferring data.

Handling Redirects

func urlSession(URLSession, task: URLSessionTask, willPerform
HTTPRedirection: HTTPURLResponse, newRequest: URLRequest,
completionHandler: (URLRequest?) -> Void)

Tells the delegate that the remote server requested an HTTP redirect.

Working with Upload Tasks

func urlSession(URLSession, task: URLSessionTask, didSendBody
Data: Int64, totalBytesSent: Int64, totalBytesExpectedToSend:
Int64)

Periodically informs the delegate of the progress of sending body content to the server.

func urlSession(URLSession, task: URLSessionTask, needNewBody
Stream: (InputStream?) -> Void)

Tells the delegate when a task requires a new request body stream to send to the remote server.

Handling Authentication Challenges

func urlSession(URLSession, task: URLSessionTask, didReceive:
URLAuthenticationChallenge, completionHandler: (URLSession.Auth
ChallengeDisposition, URLCredential?) -> Void)

Requests credentials from the delegate in response to an authentication request from the remote server.

enum URLSession.AuthChallengeDisposition

Constants passed by session or task delegates to the provided continuation block in response to an authentication challenge.

Handling Delayed and Waiting Tasks

func urlSession(URLSession, task: URLSessionTask, willBegin
DelayedRequest: URLRequest, completionHandler: (URLSession
.DelayedRequestDisposition, URLRequest?) -> Void)

Tells the delegate that a delayed URL session task will now begin loading.

enum URLSession.DelayedRequestDisposition

The action to take on a delayed URL session task.

func urlSession(URLSession, taskIsWaitingForConnectivity:
URLSessionTask)

Tells the delegate that the task is waiting until suitable connectivity is available before beginning the network load.

Collecting Task Metrics

 $\verb|func urlSession(URLSession, task: URLSessionTask, didFinish|\\$

Collecting: URLSessionTaskMetrics)

Tells the delegate that the session finished collecting metrics for the task.

class URLSessionTaskMetrics

An object encapsulating the metrics for a session task.

Relationships

Inherits From

URLSessionDelegate

Inherited By

AVAssetDownloadDelegate URLSessionDataDelegate URLSessionDownloadDelegate URLSessionStreamDelegate

See Also

Working with a Delegate

var delegate: URLSessionDelegate?

The delegate assigned when this object was created.

protocol URLSessionDelegate

A protocol defining methods that URL session instances call on their delegates to handle session-level events, like session life cycle changes.

var delegateQueue: OperationQueue

The operation queue provided when this object was created.