

Date: 9.03.2021

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URL Session - Background Task, Upload , Download Task Assignment

1.What is URLSession?

URLSession is a class introduced by Swift to make a connection with the server. It is like a web browser and consists of two methods known as HTTPRequest(asks the server for the retrieval of data) and HTTPResponse(gets the response from the server). URLSession is a kind of an API class on the foundation framework.

2.What are types of URLSessionConfiguration?

There are 3 types of URLSessionConfigurations.

- a) .default – it manages the upload and download tasks. It stored caches and cookies in the memory and credentials are saved in the key.
- b) . ephemeral – it works similar to .default but does not store cache or cookies. Example could be incognito mode.
- c) .background – it allows uploads and downloads in the background even if the app is in suspended state (app not running). Example could be uploading story on Instagram and then not using the app.

3.What is URLSessionTask? Explain Types of URLSessionTask?

URLSessionTask class is the base class for tasks in a URL session. Tasks are always part of a session. The method called determines the type of task. There are 3 types of URLSessionTask.

- a) URLSession dataTask – It is used when we want a response from the server(used to fetch data). It is used to send HTTP GET, POST, PUT, DELETE requests and the data received is stored in the memory in the form of NS data.
- b) URLSession uploadTask – It is used to upload files.
- c) URLSession downloadTask – It is used to download files.
- d) URLSession streamTask – It is used to create URLSessionStreamTask instances. Stream tasks establish a TCP/IP connection from a host name and port or a net service object.