

## ASSIGNMENT 13 - URLSession - Background Task, Upload , Download Task.

### 1.What is URLSession?

URLSession is both a class and a suite of classes for handling HTTP- and HTTPS-based requests. URLSession is the key object responsible for sending and receiving requests. You create it via URLSessionConfiguration. Think of URLSession as a web browser and it can have multiple tabs opening multiple websites. Those tabs which request and load website data are URLSessionTask. One URLSession can have multiple URLSessionTask send requests to different websites.

### 2.What are types of URLSessionConfiguration?

**default:** Creates a default configuration object that uses the disk-persisted global cache, credential and cookie storage objects.

**ephemeral:** Similar to the default configuration, except that you store all of the session-related data in memory. Think of this as a “private” session.

**background:** Lets the session perform upload or download tasks in the background. Transfers continue even when the app itself is suspended or terminated by the system.

### 3.What is URLSessionTask?Explain Types of URLSessionTask?

The URLSessionTask class is the base class for tasks in a URL session. Tasks are always part of a session; you create a task by calling one of the task creation methods on a URLSession instance. URLSessionTask is the class responsible for making requests to the web API and uploading / downloading data. A web browser can have multiple tabs opening multiple websites. Those tabs which request and load website data are URLSessionTask.

Types of URLSessionTask -

**URLSessionDataTask:** Use this task for GET requests to retrieve data from servers to memory.

**URLSessionUploadTask:** Use this task to upload a file from disk to a web service via a POST or PUT method.

**URLSessionDownloadTask:** Use this task to download a file from a remote service to a temporary file location.