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How to PDF text search API in C# using ByteScout Cloud API Server

Continuous learning is a crucial part of computer science and this tutorial shows how to PDF text search API in C#

ByteScout simple and easy to understand tutorials are planned to describe the code for both C# beginners and advanced programmers. ByteScout Cloud API Server can PDF text search API. It can be applied from C#. ByteScout Cloud API Server is the ready to deploy Web API Server that can be deployed in less than thirty minutes into your own in-house Windows server (no Internet connection is required to process data!) or into private cloud server. Can store data on in-house local server based storage or in Amazon AWS S3 bucket. Processing data solely on the server using built-in ByteScout powered engine, no cloud services are used to process your data!.

Want to quickly learn? This fast application programming interfaces of ByteScout Cloud API Server for C# plus the guidelines and the code below will help you quickly learn how to PDF text search API. This C# sample code is all you need for your app. Just copy and paste the code, add references (if needs to) and you are all set! Enjoy writing a code with ready-to-use sample C# codes.

You can download free trial version of ByteScout Cloud API Server from our website with this and other source code samples for C#.

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Source Code Files:

ByteScoutWebApiExample.sln

```
Microsoft Visual Studio Solution File, Format Version 12.00
# Visual Studio 2013
VisualStudioVersion = 12.0.40629.0
MinimumVisualStudioVersion = 10.0.40219.1
Project("{FAE04EC0-301F-11D3-BF4B-00C04F79EFBC}") = "ByteScoutWebApiExample", "ByteScoutWebApiExample", {A8A8A8A8-A8A8-A8A8-A8A8-A8A8A8A8A8A8}
EndProject
Global
    GlobalSection(SolutionConfigurationPlatforms) = preSolution
        Debug|Any CPU = Debug|Any CPU
        Release|Any CPU = Release|Any CPU
    EndGlobalSection
    GlobalSection(ProjectConfigurationPlatforms) = postSolution
        {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Debug|Any CPU.ActiveCfg = Debug|Any CPU
        {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Debug|Any CPU.Build.0 = Debug|Any CPU
        {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.ActiveCfg = Release|Any CPU
        {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.Build.0 = Release|Any CPU
    EndGlobalSection
    GlobalSection(SolutionProperties) = preSolution
        HideSolutionNode = FALSE
    EndGlobalSection
EndGlobal
```

Program.cs

```
using System;
using System.IO;
using System.Net;
using System.Threading;
using Newtonsoft.Json.Linq;

// Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "https://localhost:9443"
// If it's not then please replace this with your hosting url.
namespace ByteScoutWebApiExample
{
    class Program
    {
        // Source PDF file
        const string SourceFile = @"..\sample.pdf";

        // Comma-separated list of page indices (or ranges) to process. Leave empty for all pages.
        const string Pages = "";

        // PDF document password. Leave empty for unprotected documents.
    }
}
```

```

const string Password = "";

// Search string.
const string searchString = @"\d{1,}\.\d\d"; // Regular expression to find number
                                                // Note: do not use `+` char in regular expression
                                                // `+` char is valid for URL and will be encoded

// Enable regular expressions (Regex)
const bool RegexSearch = true;

// (!) Make asynchronous job
const bool Async = true;

static void Main(string[] args)
{
    // Create standard .NET web client instance
    WebClient webClient = new WebClient();

    // 1. RETRIEVE THE PRESIGNED URL TO UPLOAD THE FILE.
    // * If you already have a direct file URL, skip to the step 3.

    // Prepare URL for `Get Presigned URL` API call
    string query = Uri.EscapeUriString(string.Format(
        "https://localhost/file/upload/get-presigned-url?contenttype=application/pdf&filename={0}",
        Path.GetFileName(SourceFile)));

    try
    {
        // Execute request
        string response = webClient.DownloadString(query);

        // Parse JSON response
        JObject json = JObject.Parse(response);

        if (json["error"].ToObject<bool>() == false)
        {
            // Get URL to use for the file upload
            string uploadUrl = json["presignedUrl"].ToString();
            string uploadedFileUrl = json["url"].ToString();

            // 2. UPLOAD THE FILE TO CLOUD.
            webClient.Headers.Add("content-type", "application/octet-stream");
            webClient.UploadFile(uploadUrl, "PUT", SourceFile); // You can use POST instead

            // 3. MAKE UPLOADED PDF FILE SEARCHABLE

            // Prepare URL for `PDF Text Search` API call
            query = Uri.EscapeUriString(string.Format(
                "https://localhost/pdf/find?password={0}&pages={1}&url={2}&searchstring={3}&regexsearch={4}&async={5}",
                Password,
                Pages,
                uploadedFileUrl,
                searchString,
                RegexSearch,
                Async));
        }

        // Execute request
        response = webClient.DownloadString(query);

        // Parse JSON response
    }
}

```

```
json = JObject.Parse(response);

if (json["error"].ToObject<bool>() == false)
{
    // Asynchronous job ID
    string jobId = json["jobId"].ToString();

    // URL of generated json file that will available after the job
    string resultFileUrl = json["url"].ToString();

    // Check the job status in a loop.
    // If you don't want to pause the main thread you can rework this
    // to use a separate thread for the status checking and completion
    do
    {
        string status = CheckJobStatus(jobId); // Possible statuses:
                                                // success, working, failed, etc.

        // Display timestamp and status (for demo purposes)
        Console.WriteLine(DateTime.Now.ToString("yyyy-MM-dd HH:mm:ss") + ": " +
            status);

        if (status == "success")
        {
            // Execute request
            string respFileJson = webClient.DownloadString(resultFileUrl);

            // Parse JSON response
            JArray jsonFoundInformation = JArray.Parse(respFileJson);

            // Display found information in console
            foreach (JToken item in jsonFoundInformation)
            {
                Console.WriteLine("Found text \\"{item["text"]}\\"");
            }

            break;
        }
        else if (status == "working")
        {
            // Pause for a few seconds
            Thread.Sleep(3000);
        }
        else
        {
            Console.WriteLine(status);
            break;
        }
    }
    while (true);
}
else
{
    Console.WriteLine(json["message"].ToString());
}
}
else
{
    Console.WriteLine(json["message"].ToString());
}
}

catch (WebException ex)
```

```

        {
            Console.WriteLine(ex.ToString());
        }

        webClient.Dispose();

        Console.WriteLine();
        Console.WriteLine("Press any key... ");
        Console.ReadKey();
    }

    static string CheckJobStatus(string jobId)
    {
        using (WebClient webClient = new WebClient())
        {
            string url = "https://localhost/job/check?jobid=" + jobId;

            string response = webClient.DownloadString(url);
            JObject json = JObject.Parse(response);

            return Convert.ToString(json["status"]);
        }
    }

}

```

packages.config

```

<?xml version="1.0" encoding="utf-8"?>
<packages>
    <package id="Newtonsoft.Json" version="10.0.3" targetFramework="net40" />
</packages>

```

VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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