

How to PDF text search API in VB.NET and ByteScout Cloud API Server

Step-by-step tutorial on how to PDF text search API in VB.NET

The sample shows instructions and algorithm of how to PDF text search API and how to make it run in your VB.NET application. ByteScout Cloud API Server is the ready to use Web API Server that can be deployed in less than 30 minutes into your own in-house server 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!. It can PDF text search API in VB.NET.

Want to quickly learn? This fast application programming interfaces of ByteScout Cloud API Server for VB.NET plus the guidelines and the code below will help you quickly learn how to PDF text search API. Follow the instructions from scratch to work and copy the VB.NET code. Check VB.NET sample code samples to see if they respond to your needs and requirements for the project.

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

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Source Code Files:

```

Microsoft Visual Studio Solution File, Format Version 12.00
# Visual Studio 15
VisualStudioVersion = 15.0.26730.10
MinimumVisualStudioVersion = 10.0.40219.1
Project("{F184B08F-C81C-45F6-A57F-5ABD9991F28F}") = "ByteScoutWebApiExample", "ByteScoutWebApiExample.csproj", "{F184B08F-C81C-45F6-A57F-5ABD9991F28F}"
EndProject
Global
    GlobalSection(SolutionConfigurationPlatforms) = preSolution
        Debug|Any CPU = Debug|Any CPU
        Release|Any CPU = Release|Any CPU
    EndGlobalSection
    GlobalSection(ProjectConfigurationPlatforms) = postSolution
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Debug|Any CPU.ActiveCfg = Debug|Any CPU
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Debug|Any CPU.Build.0 = Debug|Any CPU
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Release|Any CPU.ActiveCfg = Release|Any CPU
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Release|Any CPU.Build.0 = Release|Any CPU
    EndGlobalSection
    GlobalSection(SolutionProperties) = preSolution
        HideSolutionNode = FALSE
    EndGlobalSection
    GlobalSection(ExtensibilityGlobals) = postSolution
        SolutionGuid = {4576C9BB-A42D-46A8-9198-7E2982E122FA}
    EndGlobalSection
EndGlobal

```

Module1.vb

```

Imports System.IO
Imports System.Net
Imports System.Threading
Imports Newtonsoft.Json.Linq

' Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "https://localhost:5000/"
' If it's not then please replace this with with your hosting url.
Module Module1
    ' Source PDF file
    Const SourceFile As String = ".\sample.pdf"

    ' Comma-separated list of page indices (or ranges) to process. Leave empty for all pages.
    Const Pages As String = ""

    ' PDF document password. Leave empty for unprotected documents.
    Const Password As String = ""

    ' Search string.

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Const SearchString As String = "\d{1,}\.\d\d" 'Regular expression To find numbers
' Note: Do Not use `+` char in regex, but use `{1,}` instead.
' `+` char Is valid for URL And will Not be escaped, And it will become a space char

' Enable regular expressions (Regex)
Const RegexSearch As Boolean = True

' (!) Make asynchronous job
Const Async As Boolean = True

Sub Main()

    ' Create standard .NET web client instance
    Dim webClient As 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
    Dim query As String = Uri.EscapeUriString(String.Format(
        "https://localhost/file/upload/get-presigned-url?contenttype=application/octet-stream&path={0}",
        Path.GetFileName(SourceFile)))

    Try
        ' Execute request
        Dim response As String = webClient.DownloadString(query)

        ' Parse JSON response
        Dim json As JObject = JObject.Parse(response)

        If json("error").ToObject(Of Boolean) = False Then
            ' Get URL to use for the file upload
            Dim uploadUrl As String = json("presignedUrl").ToString()
            ' Get URL of uploaded file to use with later API calls
            Dim uploadedFileUrl As String = 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 UploadData too

            ' 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}&uploadedFileUrl={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(Of Boolean) = False Then

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        ' Asynchronous job ID
        Dim jobId = json("jobId").ToString()

        ' URL of generated json file that will available after the job comp
        Dim resultFileUrl = json("url").ToString()

        ' Check the job status in a loop.
        ' If you don't want to pause the main thread you can rework the code
        ' to use a separate thread for the status checking And completion.
        Do
            Dim status = CheckJobStatus(jobId) ' Possible statuses: "working"

            ' Display timestamp and status (for demo purpose)
            Console.WriteLine(DateTime.Now.ToLongTimeString() + ": " + status)

            If (status = "success") Then
                ' Execute request
                Dim respFileJson As String = webClient.DownloadString(resultFileUrl)

                ' Parse JSON response
                Dim jsonFoundInformation As JArray = JArray.Parse(respFileJson)

                ' Display found information in console
                For Each item As JToken In jsonFoundInformation
                    Console.WriteLine($"{code}quot;Found text {item("text")}")
                Next

                Exit Do
            ElseIf (status = "working") Then
                ' Pause for a few seconds
                Thread.Sleep(3000)
            Else
                Console.WriteLine(status)
                Exit Do
            End If
        Loop

        Else
            Console.WriteLine(json("message").ToString())
        End If

    End If

Catch ex As WebException
    Console.WriteLine(ex.ToString())
End Try

webClient.Dispose()

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

End Sub

Function CheckJobStatus(ByVal jobId As String)

    Using webClient As New WebClient

        Dim url As String = "https://localhost/job/check?jobid=" & jobId
    
```

```
Dim response As String = webClient.DownloadString(url)
Dim json As JObject = JObject.Parse(response)

Return Convert.ToString(json("status"))

End Using

End Function

End Module
```

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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