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## PDF to image API in VB.NET and PDF.co Web API

PDF.co Web API: the Web API with a set of tools for documents manipulation, data conversion, data extraction, splitting and merging of documents. Includes image recognition, built-in OCR, barcode generation and barcode decoders to decode bar codes from scans, pictures and pdf.

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## Source Code Files:

ByteScoutWebApiExample.sln

```
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
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

```

## ByteScoutWebApiExample.vbproj

```

<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="15.0" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <Import Project="$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.props" Condition="Exists('$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.props')" />
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <ProjectGuid>{9B91124C-66C3-4BD9-B29E-168C1ABB15AC}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>ByteScoutWebApiExample.Module1</StartupObject>
    <RootNamespace>ByteScoutWebApiExample</RootNamespace>
    <AssemblyName>ByteScoutWebApiExample</AssemblyName>
    <FileAlignment>512</FileAlignment>
    <MyType>Console</MyType>
    <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <PlatformTarget>AnyCPU</PlatformTarget>
    <DebugSymbols>>true</DebugSymbols>
    <DebugType>full</DebugType>
    <DefineDebug>>true</DefineDebug>
    <DefineTrace>>true</DefineTrace>
    <OutputPath>bin\Debug</OutputPath>
    <DocumentationFile>ByteScoutWebApiExample.xml</DocumentationFile>
    <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
    <PlatformTarget>AnyCPU</PlatformTarget>
    <DebugType>pdbonly</DebugType>
    <DefineDebug>>false</DefineDebug>
    <DefineTrace>>true</DefineTrace>
    <Optimize>>true</Optimize>
    <OutputPath>bin\Release</OutputPath>
    <DocumentationFile>ByteScoutWebApiExample.xml</DocumentationFile>
    <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
  </PropertyGroup>
  <PropertyGroup>
    <OptionExplicit>On</OptionExplicit>
  </PropertyGroup>
  <PropertyGroup>
    <OptionCompare>Binary</OptionCompare>
  </PropertyGroup>
  <PropertyGroup>
    <OptionStrict>Off</OptionStrict>
  </PropertyGroup>
  <PropertyGroup>
    <OptionInfer>On</OptionInfer>
  </PropertyGroup>
  <ItemGroup>
    <Reference Include="Newtonsoft.Json, Version=10.0.0.0, Culture=neutral, PublicKeyToken=30ad4fe6b2a6aeed, p
      <HintPath>packages\Newtonsoft.Json.10.0.3\lib\net40\Newtonsoft.Json.dll</HintPath>
    </Reference>
    <Reference Include="System" />
    <Reference Include="System.Data" />
    <Reference Include="System.Deployment" />
    <Reference Include="System.Xml" />
  </ItemGroup>

```

```

<Reference Include="System.Core" />
<Reference Include="System.Xml.Linq" />
<Reference Include="System.Data.DataSetExtensions" />
</ItemGroup>
<ItemGroup>
<Import Include="Microsoft.VisualBasic" />
<Import Include="System" />
<Import Include="System.Collections" />
<Import Include="System.Collections.Generic" />
<Import Include="System.Data" />
<Import Include="System.Diagnostics" />
<Import Include="System.Linq" />
<Import Include="System.Xml.Linq" />
</ItemGroup>
<ItemGroup>
<Compile Include="Module1.vb" />
<Compile Include="My Project\AssemblyInfo.vb" />
<Compile Include="My Project\Application.Designer.vb">
  <AutoGen>True</AutoGen>
  <DependentUpon>Application.myapp</DependentUpon>
</Compile>
<Compile Include="My Project\Resources.Designer.vb">
  <AutoGen>True</AutoGen>
  <DesignTime>True</DesignTime>
  <DependentUpon>Resources.resx</DependentUpon>
</Compile>
<Compile Include="My Project\Settings.Designer.vb">
  <AutoGen>True</AutoGen>
  <DependentUpon>Settings.settings</DependentUpon>
  <DesignTimeSharedInput>True</DesignTimeSharedInput>
</Compile>
</ItemGroup>
<ItemGroup>
<EmbeddedResource Include="My Project\Resources.resx">
  <Generator>VbMyResourcesResXFileCodeGenerator</Generator>
  <LastGenOutput>Resources.Designer.vb</LastGenOutput>
  <CustomToolNamespace>My.Resources</CustomToolNamespace>
  <SubType>Designer</SubType>
</EmbeddedResource>
</ItemGroup>
<ItemGroup>
<None Include="My Project\Application.myapp">
  <Generator>MyApplicationCodeGenerator</Generator>
  <LastGenOutput>Application.Designer.vb</LastGenOutput>
</None>
<None Include="My Project\Settings.settings">
  <Generator>SettingsSingleFileGenerator</Generator>
  <CustomToolNamespace>My</CustomToolNamespace>
  <LastGenOutput>Settings.Designer.vb</LastGenOutput>
</None>
<None Include="packages.config" />
</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.VisualBasic.targets" />
</Project>

```

## Module1.vb

```

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

```

' Cloud API asynchronous "PDF To TIFF" job example.

' Allows to avoid timeout errors when processing huge or scanned PDF documents.

' The following options are available through profiles:

```
(JSON can be single/double-quoted and contain comments.)
{
  "profiles": [
    {
      "profile1": {
        "TextSmoothingMode": "HighQuality", // Valid values: "HighSpeed", "HighQuality"
        "VectorSmoothingMode": "HighQuality", // Valid values: "HighSpeed", "HighQuality"
        "ImageInterpolationMode": "HighQuality", // Valid values: "HighSpeed", "HighQuality"
        "RenderTextObjects": true, // Valid values: true, false
        "RenderVectorObjects": true, // Valid values: true, false
        "RenderImageObjects": true, // Valid values: true, false
        "RenderCurveVectorObjects": true, // Valid values: true, false
        "JPEGQuality": 85, // from 0 (lowest) to 100 (highest)
        "TIFFCompression": "LZW", // Valid values: "None", "LZW", "CCITT3", "CCITT4", "RLE"
        "RotateFlipType": "RotateNoneFlipNone", // RotateFlipType enum values from here: https://docs.microsoft.com/en-us/dotnet/api/system.drawing.imaging.rotateflipmode
        "ImageBitsPerPixel": "BPP24", // Valid values: "BPP1", "BPP8", "BPP24", "BPP32"
        "OneBitConversionAlgorithm": "OtsuThreshold", // Valid values: "OtsuThreshold", "BayerOrderedDithering"
        "FontHintingMode": "Default", // Valid values: "Default", "Stronger"
        "NightMode": false // Valid values: true, false
      }
    }
  ]
}
```

## Module Module1

```
' The authentication key (API Key).
' Get your own by registering at https://app.pdf.co/documentation/api
Const API_KEY As String = "*****"

' Direct URL of source PDF file.
Const SourceFileUrl As String = "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-api/pdf-to-image.pdf"
' Comma-separated list of page indices (or ranges) to process. Leave empty for all pages. Example: '0,2-5,7-'.
Const Pages As String = ""
' PDF document password. Leave empty for unprotected documents.
Const Password As String = ""
' Destination TIFF file name
Const DestinationFile As String = ".result.tiff"
' (!) Make asynchronous job
Const Async As Boolean = True
' Advanced options
Const Profiles As String = "{ 'profiles': [ { 'profile1': { 'TIFFCompression': 'CCITT4' } } ] }"
```

## Sub Main()

```
' Create standard .NET web client instance
Dim webClient As WebClient = New WebClient()

' Set API Key
webClient.Headers.Add("x-api-key", API_KEY)

' Prepare URL for `PDF To TIFF` API call
Dim query As String = Uri.EscapeUriString(String.Format(
    "https://api.pdf.co/v1/pdf/convert/to/tiff?name={0}&password={1}&pages={2}&url={3}&async={4}&profile={5}",
    Path.GetFileName(DestinationFile),
    Password,
    Pages,
    SourceFileUrl,
    Async,
    Profiles))
```

## 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

    ' Asynchronous job ID
    Dim jobId As String = json("jobId").ToString()
    ' URL of generated TIFF file that will available after the job completion
    Dim resultFileUrl As String = 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 As String = CheckJobStatus(jobId) ' Possible statuses: "working", "failed", "aborted"

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

    If status = "success" Then

        ' Download TIFF file
        webClient.DownloadFile(resultFileUrl, DestinationFile)

        Console.WriteLine("Generated TIFF file saved as ""{0}"" file.", DestinationFile)
        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

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(jobId As String) As String

    Using webClient As WebClient = New WebClient()

        ' Set API Key
        webClient.Headers.Add("x-api-key", API_KEY)

        Dim url As String = "https://api.pdf.co/v1/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

```

```
<?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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