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How to replace text from PDF in VB.NET using PDF.co Web API

What is PDF.co Web API? It is 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" />
    </ItemGroup>
  </Project>

```

```

<Reference Include="System.Xml" />
<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" />
  <Content Include="sample.pdf">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.VisualBasic.targets" />
</Project>

```

Module1.vb

```

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

Module Module1

```

```

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

' Source PDF file
const SourceFile as String = ".\sample.pdf"
' PDF document password. Leave empty for unprotected documents.
const Password As string = ""
' Destination PDF file name
const DestinationFile as string = ".\result.pdf"

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)

    ' 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://api.pdf.co/v1/file/upload/get-presigned-url?contenttype=application/octet-stream&name={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() instead if your fil

            ' 3. Replace Text FROM UPLOADED PDF FILE

            ' Prepare URL for `Replace Text from PDF` API call
            query = Uri.EscapeUriString(String.Format(
                "https://api.pdf.co/v1/pdf/edit/replace-text?name={0}&password={1}&url={2}&searchString=T
                Path.GetFileName(DestinationFile),
                Password,
                uploadedFileUrl))

            ' Execute request
            response = webClient.DownloadString(query)

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

            If json("error").ToObject(Of Boolean) = False Then

                ' Get URL of generated PDF file
                Dim resultFileUrl As string = json("url").ToString()

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

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

            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
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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