www.bytescout.com

PDF fill PDF forms in C# with ByteScout Cloud API Server

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 connnection 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!.

FOR MORE INFORMATION AND FREE TRIAL:

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Read more about **ByteScout Cloud API Server**

Explore API Documentation

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Source Code Files:

FillPDFForms.csproj

```xml
<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="12.0" DefaultTargets="Build" xmlns="http://schemas.microsoft.co
  <Import Project="$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.pr
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
    <ProjectGuid>{1E1C2C34-017E-4605-AE2B-55EA3313BE51}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>FillPDFForms</RootNamespace>
    <AssemblyName>FillPDFForms</AssemblyName>
    <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
    <FileAlignment>512</FileAlignment>
  </PropertyGroup>
  <PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <PlatformTarget>AnyCPU</PlatformTarget>
    <DebugSymbols>true</DebugSymbols>
    <DebugType>full</DebugType>
    <Optimize>false</Optimize>
    <OutputPath>bin\Debug\</OutputPath>
    <DefineConstants>DEBUG;TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
    <PlatformTarget>AnyCPU</PlatformTarget>
    <DebugType>pdbonly</DebugType>
    <Optimize>true</Optimize>
    <OutputPath>bin\Release\</OutputPath>
    <DefineConstants>TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <ItemGroup>
    <Reference Include="Newtonsoft.Json, Version=10.0.0.0, Culture=neutral, PublicKeyT
      <HintPath>packages\Newtonsoft.Json.10.0.3\lib\net40\Newtonsoft.Json.dll</HintPat
      <Private>True</Private>
    </Reference>
    <Reference Include="System" />
    <Reference Include="System.Core" />
    <Reference Include="System.Xml.Linq" />
    <Reference Include="System.Data" />
    <Reference Include="System.Xml" />
  </ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
  </ItemGroup>
  <ItemGroup>
    <None Include="packages.config" />
  </ItemGroup>
  <Import Project="$(MSBuildToolsPath)\Microsoft.CSharp.targets" />
  <!-- To modify your build process, add your task inside one of the targets below and
       Other similar extension points exist, see Microsoft.Common.targets.
  <Target Name="BeforeBuild">
  </Target>
  <Target Name="AfterBuild">
  </Target>
  -->
</Project>
```

FillPDFForms.sln

```
Microsoft Visual Studio Solution File, Format Version 12.00
# Visual Studio 15
VisualStudioVersion = 15.0.26730.10
MinimumVisualStudioVersion = 10.0.40219.1
Project("{FAE04EC0-301F-11D3-BF4B-00C04F79EFBC}") = "FillPDFForms", "FillPDFForms.cspr
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
		{1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Debug|Any CPU.Build.0 = Debug|A
		{1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.ActiveCfg = Rel
		{1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.Build.0 = Relea
	EndGlobalSection
	GlobalSection(SolutionProperties) = preSolution
		HideSolutionNode = FALSE
	EndGlobalSection
	GlobalSection(ExtensibilityGlobals) = postSolution
		SolutionGuid = {238BD6FC-F70A-4B5C-B639-34E5B171A981}
	EndGlobalSection
EndGlobal
```

Program.cs

```
using Newtonsoft.Json;
using Newtonsoft.Json.Linq;
using System;
using System.Collections.Generic;
using System.Net;
using System.Runtime.InteropServices;
using System.Threading;

namespace ByteScoutWebApiExample
{
```

```
        // Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "h
        // If it's not then please replace this with with your hosting url.
    class Program
    {
        // The authentication key (API Key).
        // Get your own by registering at https://app.pdf.co/documentation/api
        const String API_KEY = "************************";

        // Direct URL of source PDF file.
        const string SourceFileUrl = "https://bytescout-com.s3-us-west-2.amazonaws.com
        // PDF document password. Leave empty for unprotected documents.
        const string Password = "";
        // File name for generated output. Must be a String
        const string FileName = "f1040-form-filled";

        // Destination File Name
        const string DestinationFile = "./result.pdf";

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

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

            // Values to fill out pdf fields with built-in pdf form filler
            var fields = new List<object> {
                new { fieldName = "topmostSubform[0].Page1[0].FilingStatus[0].c1_01[1]
                new { fieldName = "topmostSubform[0].Page1[0].f1_02[0]", pages = "1",
                new { fieldName = "topmostSubform[0].Page1[0].f1_03[0]", pages = "1",
                new { fieldName = "topmostSubform[0].Page1[0].YourSocial_ReadOrderCont
                new { fieldName = "topmostSubform[0].Page1[0].YourSocial_ReadOrderCont
                new { fieldName = "topmostSubform[0].Page1[0].YourSocial_ReadOrderCont
                new { fieldName = "topmostSubform[0].Page1[0].YourSocial_ReadOrderCont
            };

            // If enabled, Runs processing asynchronously. Returns Use JobId that you
            var async = true; // (!) Make asynchronous job

            // Prepare requests params as JSON
            // See documentation: https://apidocs.pdf.co
            Dictionary<string, object> parameters = new Dictionary<string, object>();
            parameters.Add("url", SourceFileUrl);
            parameters.Add("name", FileName);
            parameters.Add("password", Password);
            parameters.Add("async", async);
            parameters.Add("fields", fields);

            // Convert dictionary of params to JSON
            string jsonPayload = JsonConvert.SerializeObject(parameters);

            try
            {
                // URL of "PDF Edit" endpoint
                string url = "https://localhost/pdf/edit/add";

                // Execute POST request with JSON payload
                string response = webClient.UploadString(url, jsonPayload);
```

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

            if (json["error"].ToObject<bool>() == false)
            {
                // Asynchronous job ID
                string jobId = json["jobId"].ToString();
                // URL of generated PDF file that will available after the job com
                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 the c
                // to use a separate thread for the status checking and completion
                do
                {
                    string status = CheckJobStatus(jobId); // Possible statuses: "

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

                    if (status == "success")
                    {
                        // Download PDF file
                        webClient.DownloadFile(resultFileUrl, DestinationFile);

                        Console.WriteLine("Generated PDF file saved as \"{0}\" fil
                        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());
            }
        }
        catch (WebException e)
        {
            Console.WriteLine(e.ToString());
        }
        finally
        {
            webClient.Dispose();
        }

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

```
        /// <summary>
        /// Check job status
        /// </summary>
        static string CheckJobStatus(string jobId)
        {
            using (WebClient webClient = new WebClient())
            {
                // Set API Key
                webClient.Headers.Add("x-api-key", API_KEY);

                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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