

external JS for form data validation in C# and ByteScout PDF SDK

ByteScout PDF SDK is the SDK for pdf documents generation, modification and updates. Can also generate and fill PDF forms. Provides support for text (fonts, style, size, font family), layers, pdf form fields, vector and raster drawings.

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Source Code Files:

ExternalJsFormValidation.csproj

```
<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="14.0" DefaultTargets="Build" 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>{474F52FF-3928-44EA-8F6F-379E9DAA23FF}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ExternalJsFormValidation</RootNamespace>
    <AssemblyName>ExternalJsFormValidation</AssemblyName>
    <TargetFrameworkVersion>v2.0</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="Bytescout.PDF, Version=1.0.0.15, Culture=neutral, PublicKeyToken=f7dd1bd9d40a50eb, pro
    <SpecificVersion>False</SpecificVersion>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Drawing" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.CSharp.targets" />
<!-- To modify your build process, add your task inside one of the targets below and uncomment it.
      Other similar extension points exist, see Microsoft.Common.targets.
-->
<Target Name="BeforeBuild">
</Target>
<Target Name="AfterBuild">
</Target>
-->
</Project>

```

Program.cs

```

using System.Diagnostics;
using Bytescout.PDF;

namespace ExternalJsFormValidation
{
  /// <summary>
  /// This example demonstrates validation of form with JavaScript
  /// </summary>
  class Program
  {
    static void Main()
    {
      // Create new document
      Document pdfDocument = new Document();
      pdfDocument.RegistrationName = "demo";
      pdfDocument.RegistrationKey = "demo";

      // Add page
      Page page = new Page(PaperFormat.A4);
      pdfDocument.Pages.Add(page);

      // Get page canvas
      Canvas canvas = page.Canvas;

      // Prepare font and brush
      Font font = new Font(StandardFonts.Helvetica, 15);
      SolidBrush blackBrush = new SolidBrush();
    }
  }
}

```

```

// Draw First Name Label
canvas.DrawString("First Name: ", font, blackBrush, 50, 50);

// Create First Name EditText
EditText firstName = new EditText(130, 50, 100, 30, "FirstName");

// Add javascript validation of focus lose
firstName.OnLoseFocus = new JavaScriptAction(@"
if(event.value == ""){
    app.alert('First Name is required!');
}
");

// Add First Name Editbox to page
page.Annotations.Add(firstName);

// Draw Last Name Label
canvas.DrawString("Last Name: ", font, blackBrush, 50, 100);

// Create Last Name EditText
EditText lastName = new EditText(130, 100, 100, 30, "LastName");

// Add javascript validation on focus lose
lastName.OnLoseFocus = new JavaScriptAction(@"
if(event.value == ""){
    app.alert('Last Name is required!');
}
");

page.Annotations.Add(lastName);

// Create a button
PushButton btnSubmit = new PushButton(50, 150, 150, 30, "SayHello");
btnSubmit.Caption = "Say Hello!";

// Javascript action to validate as well as displaying message
btnSubmit.OnMouseDown = new JavaScriptAction(@"

var valFirstName = this.getField('FirstName').value;
var valLastName = this.getField('LastName').value;

if(valFirstName == "" || valLastName == ""){
    app.alert('Please complete incomplete values in form!');
}
else{
    var messageToDisplay = 'Hello, ' + valLastName + ' ' + valFirstName + '!';
    app.alert(messageToDisplay, 4);
}

");

page.Annotations.Add(btnSubmit);

// Save document to file
pdfDocument.Save("result.pdf");

// Cleanup
pdfDocument.Dispose();

// Open result document in default associated application (for demo purpose)
ProcessStartInfo processStartInfo = new ProcessStartInfo("result.pdf");
processStartInfo.UseShellExecute = true;
Process.Start(processStartInfo);
}
}
}
}

```

VIDEO

<https://www.youtube.com/watch?v=gdsQ0EAqwGQ>

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