

How to read barcodes from image with barcode reader sdk in ASP.NET VB and ByteScout Data Extraction Suite

How to write a robust code in ASP.NET VB to read barcodes from image with barcode reader sdk with this step-by-step tutorial

Quickly learn how to read barcodes from image with barcode reader sdk in ASP.NET VB with this sample source code. ByteScout Data Extraction Suite is the set that includes 3 SDK products for data extraction from PDF, scans, images and from spreadsheets: PDF Extractor SDK, Data Extraction SDK, Barcode Reader SDK. It can read barcodes from image with barcode reader sdk in ASP.NET VB.

This prolific sample source code in ASP.NET VB for ByteScout Data Extraction Suite contains various functions and other necessary options you should do calling the API to read barcodes from image with barcode reader sdk. Simply copy and paste in your ASP.NET VB project or application you and then run your app! Enjoy writing a code with ready-to-use sample ASP.NET VB codes.

Trial version of ByteScout Data Extraction Suite is available for free. Source code samples are included to help you with your ASP.NET VB app.

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Source Code Files:

About.aspx

```
<%@ Page Title="About Us" Language="vb" MasterPageFile="~/Site.Master" AutoEventWireup="true"
    CodeBehind="About.aspx.vb" Inherits="Barcodes_From_Image.About" %>

<asp:Content ID="HeaderContent" runat="server" ContentPlaceHolderID="HeadContent">
</asp:Content>
<asp:Content ID="BodyContent" runat="server" ContentPlaceHolderID="MainContent">
    <h2>
        About
    </h2>
    <p>
        Put content here.
    </p>
</asp:Content>
```

About.aspx.designer.vb

```
'-----
' <auto-generated>
'     This code was generated by a tool.
'
'     Changes to this file may cause incorrect behavior and will be lost if
'     the code is regenerated.
' </auto-generated>
'-----

Option Strict On
Option Explicit On

Partial Public Class About
End Class
```

About.aspx.vb

```
Public Class About
```

```

Inherits System.Web.UI.Page

Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
    '
End Sub

End Class

```

Default.aspx

```

<%@ Page Language="vb" AutoEventWireup="true" CodeBehind="Default.aspx.vb" Inherits="BarcodeReaderTester.Default" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" >
<head id="Head1" runat="server">
    <title>Web Barcode Reader Tester (C#)</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Click browse button to upload an image<br />
            <br />
            <asp:FileUpload ID="FileUpload1" runat="server" /><br />
            <br />
            <asp:Button id="UploadButton"
                Text="Upload file"
                runat="server">
            </asp:Button>
            <br />
            <br />
            <asp:Label id="UploadStatusLabel" Text="" runat="server"></asp:Label>
            <br />
            <asp:ListBox ID="ListBox1" runat="server" Visible="False"></asp:ListBox><br />
            <br />
            <asp:Image ID="Image1" runat="server" Height="74px" Width="71px" /></div>
        </form>
    </body>
</html>

```

Default.aspx.designer.vb

```
'-----  
' <auto-generated>  
'     This code was generated by a tool.  
'  
'     Changes to this file may cause incorrect behavior and will be lost if  
'     the code is regenerated.  
' </auto-generated>  
'-----
```

Option Strict On
Option Explicit On

Partial Public Class _Default

```
'''<summary>  
'''Head1 control.  
'''</summary>  
'''<remarks>  
'''Auto-generated field.  
'''To modify move field declaration from designer file to code-behind file.  
'''</remarks>
```

Protected WithEvents Head1 As Global.System.Web.UI.HtmlControls.HtmlHead

```
'''<summary>  
'''form1 control.  
'''</summary>  
'''<remarks>  
'''Auto-generated field.  
'''To modify move field declaration from designer file to code-behind file.  
'''</remarks>
```

Protected WithEvents form1 As Global.System.Web.UI.HtmlControls.HtmlForm

```
'''<summary>  
'''FileUpload1 control.  
'''</summary>  
'''<remarks>  
'''Auto-generated field.  
'''To modify move field declaration from designer file to code-behind file.  
'''</remarks>
```

Protected WithEvents FileUpload1 As Global.System.Web.UI.WebControls.FileUpload

```
'''<summary>  
'''UploadButton control.  
'''</summary>  
'''<remarks>  
'''Auto-generated field.  
'''To modify move field declaration from designer file to code-behind file.  
'''</remarks>
```

Protected WithEvents UploadButton As Global.System.Web.UI.WebControls.Button

```
'''<summary>  
'''UploadStatusLabel control.  
'''</summary>  
'''<remarks>  
'''Auto-generated field.  
'''To modify move field declaration from designer file to code-behind file.  
'''</remarks>
```

Protected WithEvents UploadStatusLabel As Global.System.Web.UI.WebControls.Label

```

'''<summary>
'''ListBox1 control.
'''</summary>
'''<remarks>
'''Auto-generated field.
'''To modify move field declaration from designer file to code-behind file.
'''</remarks>
Protected WithEvents ListBox1 As Global.System.Web.UI.WebControls.ListBox

'''<summary>
'''Image1 control.
'''</summary>
'''<remarks>
'''Auto-generated field.
'''To modify move field declaration from designer file to code-behind file.
'''</remarks>
Protected WithEvents Image1 As Global.System.Web.UI.WebControls.Image
End Class

```

Default.aspx.vb

```

Imports System.IO
Imports Bytescout.BarCodeReader

Public Class _Default
    Inherits System.Web.UI.Page

    ' IF YOU SEE TEMPORARY FOLDER ACCESS ERRORS:

    ' Temporary folder access is required for web application when you use ByteScout S
    ' If you are getting errors related to the access to temporary folder like "Access

    ' SOLUTION:

    ' If your IIS Application Pool has "Load User Profile" option enabled the IIS prov
    ' If you are running Web Application under an impersonated account or IIS_IUSRS gro

    ' In this case
    ' - check the User or User Group your web application is running under
    ' - then add permissions for this User or User Group to read and write into that te
    ' - restart your web application and try again

    Private Sub UploadButton_Click(sender As Object, e As System.EventArgs) Handles Up

        Dim savePath As String = "\uploads\"

        If (FileUpload1.HasFile) Then

```

```

Dim virtualFilePath As String = Path.Combine(savePath, FileUpload1.FileName)

Dim serverFilePath As String = Server.MapPath(virtualFilePath)
If Not Directory.Exists(Path.GetDirectoryName(serverFilePath)) Then
    Directory.CreateDirectory(Path.GetDirectoryName(serverFilePath))
End If

FileUpload1.SaveAs(serverFilePath)

Dim image As System.Drawing.Image = Nothing

Try
    Using fileStream As FileStream = File.OpenRead(serverFilePath)
        image = System.Drawing.Image.FromStream(fileStream)
    End Using

Catch ex As Exception

End Try

If image Is Nothing Then
    UploadStatusLabel.Visible = True
    UploadStatusLabel.Text = "Your file is not an image."
    Image1.Visible = False
    ListBox1.Visible = False
Else
    UploadStatusLabel.Visible = False
    Image1.ImageUrl = virtualFilePath
    Image1.Visible = True
    Image1.Width = image.Width
    Image1.Height = image.Height
    ListBox1.Items.Clear()
    ListBox1.Visible = True

    FindBarcodes(serverFilePath)

    If ListBox1.Items.Count = 0 Then
        ListBox1.Items.Add("No barcodes found")
    End If

End If

Else
    'Notify the user that a file was not uploaded.
    UploadStatusLabel.Text = "You did not specify a file to upload."
End If

End Sub

Private Sub FindBarcodes(fileName As String)

Dim reader As Reader = New Reader()

' Limit search to 1D barcodes only (exclude 2D barcodes to speed up the search)
' Change to bc.BarcodeTypesToFind.SetAll() to scan for all supported 1D
' or select specific type, e.g. bc.BarcodeTypesToFind.PDF417 = True
reader.BarcodeTypesToFind.SetAll1D()

' reader.MediumTrustLevelCompatible = True ' uncomment this line to enable Med

```

```

        reader.ReadFromFile(fileName)

        For Each barcode As FoundBarcode In reader.FoundBarcodes
            ListBox1.Items.Add(String.Format("{0} : {1}", barcode.Type, barcode.Value))
        Next

    End Sub

End Class

```

Global.asax.vb

```

Imports System.Web.SessionState

Public Class Global_asax
    Inherits System.Web.HttpApplication

    Sub Application_Start(ByVal sender As Object, ByVal e As EventArgs)
        ' Fires when the application is started
    End Sub

    Sub Session_Start(ByVal sender As Object, ByVal e As EventArgs)
        ' Fires when the session is started
    End Sub

    Sub Application_BeginRequest(ByVal sender As Object, ByVal e As EventArgs)
        ' Fires at the beginning of each request
    End Sub

    Sub Application_AuthenticateRequest(ByVal sender As Object, ByVal e As EventArgs)
        ' Fires upon attempting to authenticate the user
    End Sub

    Sub Application_Error(ByVal sender As Object, ByVal e As EventArgs)
        ' Fires when an error occurs
    End Sub

    Sub Session_End(ByVal sender As Object, ByVal e As EventArgs)
        ' Fires when the session ends
    End Sub

    Sub Application_End(ByVal sender As Object, ByVal e As EventArgs)
        ' Fires when the application ends
    End Sub

End Class

```

```
'-----  
' <auto-generated>  
'     This code was generated by a tool.  
'  
'     Changes to this file may cause incorrect behavior and will be lost if  
'     the code is regenerated.  
' </auto-generated>  
'-----
```

```
Option Strict On  
Option Explicit On
```

```
Partial Public Class SiteMaster
```

```
    '''<summary>  
    '''Head1 control.  
    '''</summary>  
    '''<remarks>  
    '''Auto-generated field.  
    '''To modify move field declaration from designer file to code-behind file.  
    '''</remarks>
```

```
Protected WithEvents Head1 As Global.System.Web.UI.HtmlControls.HtmlHead
```

```
    '''<summary>  
    '''HeadContent control.  
    '''</summary>  
    '''<remarks>  
    '''Auto-generated field.  
    '''To modify move field declaration from designer file to code-behind file.  
    '''</remarks>
```

```
Protected WithEvents HeadContent As Global.System.Web.UI.WebControls.ContentPlaceHolder
```

```
    '''<summary>  
    '''Form1 control.  
    '''</summary>  
    '''<remarks>  
    '''Auto-generated field.  
    '''To modify move field declaration from designer file to code-behind file.  
    '''</remarks>
```

```
Protected WithEvents Form1 As Global.System.Web.UI.HtmlControls.HtmlForm
```

```
    '''<summary>  
    '''HeadLoginView control.  
    '''</summary>  
    '''<remarks>  
    '''Auto-generated field.  
    '''To modify move field declaration from designer file to code-behind file.  
    '''</remarks>
```

```
Protected WithEvents HeadLoginView As Global.System.Web.UI.WebControls.LoginView
```

```
    '''<summary>
```



```

'''NavigationMenu control.
'''</summary>
'''<remarks>
'''Auto-generated field.
'''To modify move field declaration from designer file to code-behind file.
'''</remarks>
Protected WithEvents NavigationMenu As Global.System.Web.UI.WebControls.Menu

'''<summary>
'''MainContent control.
'''</summary>
'''<remarks>
'''Auto-generated field.
'''To modify move field declaration from designer file to code-behind file.
'''</remarks>
Protected WithEvents MainContent As Global.System.Web.UI.WebControls.ContentPlaceHolder
End Class

```

Site.Master.vb

```

Public Class Site
    Inherits System.Web.UI.MasterPage

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Page_Load
    End Sub
End Class

```

Web.Debug.config

```

<?xml version="1.0"?>
<!-- For more information on using web.config transformation visit http://go.microsoft.com/fwlink/?LinkId=290726 -->
<configuration xmlns:xdt="http://schemas.microsoft.com/XML-Document-Transform">
  <!--
    In the example below, the "SetAttributes" transform will change the value of
    "connectionString" to use "ReleaseSQLServer" only when the "Match" locator
    finds an attribute "name" that has a value of "MyDB".
  -->

```

```

<connectionStrings>
  <add name="MyDB"
    connectionString="Data Source=ReleaseSQLServer;Initial Catalog=MyReleaseDB;Inte
    xdt:Transform="SetAttributes" xdt:Locator="Match(name)"/>
</connectionStrings>
-->
<system.web>
  <!--
    In the example below, the "Replace" transform will replace the entire
    <customErrors> section of your web.config file.
    Note that because there is only one customErrors section under the
    <system.web> node, there is no need to use the "xdt:Locator" attribute.

    <customErrors defaultRedirect="GenericError.htm"
      mode="RemoteOnly" xdt:Transform="Replace">
      <error statusCode="500" redirect="InternalError.htm"/>
    </customErrors>
  -->
</system.web>
</configuration>

```

Web.Release.config

```

<?xml version="1.0"?>

<!-- For more information on using web.config transformation visit http://go.microsoft.com/fwlink/?LinkId=290726 -->

<configuration xmlns:xdt="http://schemas.microsoft.com/XML-Document-Transform">
  <!--
    In the example below, the "SetAttributes" transform will change the value of
    "connectionString" to use "ReleaseSQLServer" only when the "Match" locator
    finds an attribute "name" that has a value of "MyDB".

    <connectionStrings>
      <add name="MyDB"
        connectionString="Data Source=ReleaseSQLServer;Initial Catalog=MyReleaseDB;Inte
        xdt:Transform="SetAttributes" xdt:Locator="Match(name)"/>
      </connectionStrings>
    -->
    <system.web>
      <compilation xdt:Transform="RemoveAttributes(debug)" />
      <!--
        In the example below, the "Replace" transform will replace the entire
        <customErrors> section of your web.config file.
        Note that because there is only one customErrors section under the
        <system.web> node, there is no need to use the "xdt:Locator" attribute.

        <customErrors defaultRedirect="GenericError.htm"
          mode="RemoteOnly" xdt:Transform="Replace">
          <error statusCode="500" redirect="InternalError.htm"/>
        </customErrors>
      -->
    </system.web>
  </configuration>

```

```

    </customErrors>
  -->
</system.web>
</configuration>

```

Web.config

```

<?xml version="1.0"?>

<!--
  For more information on how to configure your ASP.NET application, please visit
  http://go.microsoft.com/fwlink/?LinkId=169433
-->

<configuration>
  <connectionStrings>
    <add name="ApplicationServices"
          connectionString="data source=.\SQLEXPRESS;Integrated Security=SSPI;AttachDBF=
          providerName="System.Data.SqlClient" />
  </connectionStrings>

  <system.web>
    <compilation debug="true" strict="false" explicit="true" targetFramework="4.0" />

    <authentication mode="Forms">
      <forms loginUrl="~/Account/Login.aspx" timeout="2880" />
    </authentication>

    <membership>
      <providers>
        <clear/>
        <add name="AspNetSqlMembershipProvider" type="System.Web.Security.SqlMembership
              enablePasswordRetrieval="false" enablePasswordReset="true" requiresQuestion
              maxInvalidPasswordAttempts="5" minRequiredPasswordLength="6" minRequiredNo
              applicationName="/" />
      </providers>
    </membership>

    <profile>
      <providers>
        <clear/>
        <add name="AspNetSqlProfileProvider" type="System.Web.Profile.SqlProfileProvid
      </providers>
    </profile>

    <roleManager enabled="false">
      <providers>
        <clear/>
        <add name="AspNetSqlRoleProvider" type="System.Web.Security.SqlRoleProvider" co
        <add name="AspNetWindowsTokenRoleProvider" type="System.Web.Security.WindowsTo
      </providers>
    </roleManager>
  </system.web>
</configuration>

```

```
</roleManager>

</system.web>

<system.webServer>
  <modules runAllManagedModulesForAllRequests="true"/>
</system.webServer>
</configuration>
```

VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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