

How to batch read barcodes to CSV in ASP.NET VB and ByteScout BarCode Reader SDK

Step-by-step tutorial on how to batch read barcodes to CSV in ASP.NET VB

ByteScout simple and easy to understand tutorials are planned to describe the code for both ASP.NET VB beginners and advanced programmers. What is ByteScout BarCode Reader SDK? It is the SDK for barcode decoding. Can read all popular types from Code 128, GS1, UPC and Code 39 to QR Code, Datamatrix, PDF417. Images, pdf, TIF images and live web camera are supported as input. Designed to handle documents with noise and defects. Includes optional splitter and merger for pdf and tiff based on barcodes. Batch mode is optimized for high performance with multiple threads. Decoded values can be exported to XML, JSON, CSV or into custom data format. It can help you to batch read barcodes to CSV in your ASP.NET VB application.

The following code snippet for ByteScout BarCode Reader SDK works best when you need to quickly batch read barcodes to CSV in your ASP.NET VB application. This ASP.NET VB sample code is all you need for your app. Just copy and paste the code, add references (if needs to) and you are all set! Enjoy writing a code with ready-to-use sample ASP.NET VB codes.

You can download free trial version of ByteScout BarCode Reader SDK from our website with this and other source code samples for ASP.NET VB.

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Source Code Files:

Default.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Default.aspx.vb" Inherits="..." %>

<!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 runat="server">
    <title>Scan Image/PDF files for barcode and generate CSV (VB)</title>
</head>
<body>
    <form id="form1" runat="server">
        <label>
            This project demonstrates scanning of folder, and processing each image/PDF file.
            It'll then generates CSV file containing barcodes and downloads it.
        </label>
        <br />
        <br />
        <div>
            <asp:Button ID="btnImagePDFBarcodeToCSV" Text="Scan for Barcode and Generate CSV" runat="server" />
            <br />
            <asp:Label ID="lblInfo" runat="server" Text=""></asp:Label>
        </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>
'''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>
'''btnImagePDFBarcodeToCSV control.
'''</summary>
'''<remarks>
'''Auto-generated field.
'''To modify move field declaration from designer file to code-behind file.
'''</remarks>
Protected WithEvents btnImagePDFBarcodeToCSV As Global.System.Web.UI.WebControls.Button

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

```

Default.aspx.vb

```

Imports ByteScout.BarCodeReader

Partial Public Class _Default
    Inherits Page

    ' IF YOU SEE TEMPORARY FOLDER ACCESS ERRORS:

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

    ' If your IIS Application Pool has "Load User Profile" option enabled the IIS process will fail
    ' If you are running Web Application under an impersonated account or IIS_IUSRS group
    ' 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 temporary folder
    ' - restart your web application and try again

```

```

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

Protected Sub btnImagePDFBarcodeToCSV_Click(sender As Object, e As EventArgs) Handles btnImagePDFBarcodeToCSV.Click
    ' Read Barcode Process
    Dim reader As Reader = New Reader()
    reader.RegistrationKey = "demo"
    reader.RegistrationName = "demo"

    ' Set Barcode type to find
    reader.BarcodeTypesToFind.All = True

    ' Output list
    Dim lstCSVOutput As List(Of CSVOutputFormat) = New List(Of CSVOutputFormat)()

    Dim files = System.IO.Directory.GetFiles(Request.MapPath("~/BarcodeFiles"))

    ' Get all files in folder, And iterate through each file
    For Each fileName As String In files

        ' Read barcodes
        Dim barcodes As FoundBarcode() = reader.ReadFrom(fileName)

        For Each code As FoundBarcode In barcodes
            lstCSVOutput.Add(New CSVOutputFormat With {
                .barcodeValue = code.Value,
                .barcodeType = code.Type.ToString(),
                .scanDateTime = DateTime.Now.ToString(),
                .fileName = fileName
            })
        Next

    Next

    ' Set info text
    lblInfo.Text = String.Format("Total {0} barcode found in {1} file.", lstCSVOutput.Count, files.Length)

    ' Export to CSV
    ExportToCsv(lstCSVOutput, Response)
End Sub

''' <summary>
''' Exports to CSV
''' </summary>
Private Shared Sub ExportToCsv(ByVal lstCSVOutput As List(Of CSVOutputFormat), ByVal response As HttpResponse)

    Dim csvOutputContent As System.Text.StringBuilder = New System.Text.StringBuilder()

    csvOutputContent.Append("Barcode Value,Barcode Type,Scan DateTime,File Name")

    For Each item As CSVOutputFormat In lstCSVOutput
        csvOutputContent.AppendFormat(vbCrLf & "{0},{1},{2},{3}", item.barcodeValue, item.barcodeType, item.scanDateTime, item.fileName)
    Next

    ' Perform download of file
    response.Clear()

```

```

response.ClearHeaders()

response.AppendHeader("Content-Length", csvOutputContent.Length.ToString())
response.ContentType = "text/csv"
response.AppendHeader("Content-Disposition", "attachment;filename=""output.csv""")

response.Write(csvOutputContent.ToString())
response.End()

```

```
End Sub
```

```
End Class
```

```
Class CSVOutputFormat
```

```
Public Property barcodeValue As String
```

```
Public Property barcodeType As String
```

```
Public Property scanDateTime As String
```

```
Public Property fileName As String
```

```
End Class
```

Web.config

```

<?xml version="1.0"?>

<configuration>

  <appSettings/>
  <connectionStrings/>

  <system.web>
    <!--
      Set compilation debug="true" to insert debugging
      symbols into the compiled page. Because this
      affects performance, set this value to true only
      during development.

      Visual Basic options:
      Set strict="true" to disallow all data type conversions
      where data loss can occur.
      Set explicit="true" to force declaration of all variables.
    -->
    <compilation debug="true" strict="false" explicit="true" />
    <pages>
      <namespaces>
        <clear />
        <add namespace="System" />
        <add namespace="System.Collections" />
        <add namespace="System.Collections.Specialized" />
        <add namespace="System.Configuration" />
        <add namespace="System.Text" />
        <add namespace="System.Text.RegularExpressions" />

```

```

        <add namespace="System.Web" />
        <add namespace="System.Web.Caching" />
        <add namespace="System.Web.SessionState" />
        <add namespace="System.Web.Security" />
        <add namespace="System.Web.Profile" />
        <add namespace="System.Web.UI" />
        <add namespace="System.Web.UI.WebControls" />
        <add namespace="System.Web.UI.WebControls.WebParts" />
        <add namespace="System.Web.UI.HtmlControls" />
    </namespaces>
</pages>
<!--
    The <authentication> section enables configuration
    of the security authentication mode used by
    ASP.NET to identify an incoming user.
-->
<authentication mode="Windows" />
<!--
    The <customErrors> section enables configuration
    of what to do if/when an unhandled error occurs
    during the execution of a request. Specifically,
    it enables developers to configure html error pages
    to be displayed in place of a error stack trace.

    <customErrors mode="RemoteOnly" defaultRedirect="GenericErrorPage.htm">
        <error statusCode="403" redirect="NoAccess.htm" />
        <error statusCode="404" redirect="FileNotFound.htm" />
    </customErrors>
-->
</system.web>
</configuration>

```

VIDEO

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

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