

```
1 <%@ Page Language="vb" Src="Invoice.aspx.vb" Inherits="Web_VB.GeneratorExamples.Invoice" %>
2 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN" >
3
4 <html>
5   <head>
6     <title>DynamicPDF Generator v10.0 for .NET - Invoice Example</title>
7     <link rel="stylesheet" type="text/css" href="../DynamicPDF.css">
8   </head>
9   <body MS_POSITIONING="GridLayout">
10
11     <div id="banner">
12       
13       <div id="header"><i>Dynamic</i><b>PDF</b> Generator v10.0 for .NET Examples</div>
14       <h1>Invoice Example</h1>
15     </div>
16
17     <div id="content">
18       <form id="FormFill" method="get" target="_blank" runat="server">
19         <h1>Select the invoices to include in the PDF.</h1>
20         <asp:CheckBoxList id="chkInvoices" runat="server">
21           <asp:ListItem Value="10248">10248</asp:ListItem>
22           <asp:ListItem Value="10249">10249</asp:ListItem>
23           <asp:ListItem Value="10250">10250</asp:ListItem>
24           <asp:ListItem Value="10251">10251</asp:ListItem>
25           <asp:ListItem Value="10252">10252</asp:ListItem>
26           <asp:ListItem Selected=True Value="10360">10360</asp:ListItem>
27           <asp:ListItem Selected=True Value="10979">10979</asp:ListItem>
28           <asp:ListItem Value="11077">11077</asp:ListItem>
29         </asp:CheckBoxList>
30         <asp:Button id="btnCreateInvoices" Text="Create Invoices" runat="server" />
31       </form>
32     </div>
33
34   </body>
35 </html>
```

```
1 Imports System
2 Imports System.Data
3 Imports System.Data.SqlClient
4 Imports Microsoft.VisualBasic
5
6 Imports ceTe.DynamicPDF
7 Imports ceTe.DynamicPDF.PageElements
8 Imports ceTe.DynamicPDF.PageElements.BarCoding
9
10 Namespace Web_VB.GeneratorExamples
11     Public Class Invoice
12         Inherits System.Web.UI.Page
13
14     #Region " Member Variables "
15
16         Protected chkInvoices As System.Web.UI.WebControls.CheckBoxList
17         Protected btnCreateInvoices As System.Web.UI.WebControls.Button
18         Protected WithEvents FormFill As System.Web.UI.HtmlControls.HtmlForm
19
20         'Connection string to the Northwind database
21         Private Shared DBConnString As String = _
22             System.Configuration.ConfigurationSettings.AppSettings("NorthWindConnectionString")
23
24     #End Region
25
26     #Region " Page_Load Method "
27
28         Private Sub Page_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
29             If IsPostBack Then
30                 CreateInvoices()
31             End If
32         End Sub
33
34     #End Region
35
36     #Region " Private Methods "
37
38         Private Sub CreateInvoices()
39             'Create a MyDocument and set it's properties
40             Dim MyDocument As Document = New Document
41             MyDocument.Creator = "Invoice.aspx"
42             MyDocument.Author = "ceTe Software"
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43     MyDocument.Title = "Invoice"
44
45     'Add the template to the MyDocument
46     MyDocument.Template() = MyInvoice.GetTemplate
47
48     'Establishes connection to the database
49     Dim Connection As SqlConnection = GetOpenDBConn()
50
51     'Add Invoices to the MyDocument
52     Dim Item As System.Web.UI.WebControls.ListItem
53     For Each Item In chkInvoices.Items
54         If Item.Selected Then
55             Dim Invoice As MyInvoice = New MyInvoice(Me.Server)
56             Invoice.Draw(Connection, MyDocument, Integer.Parse(Item.Value))
57         End If
58     Next
59
60     'Cleans up database connections
61     Connection.Close()
62
63     'Outputs the Invoices to the current web MyPage
64     Try
65         MyDocument.DrawToWeb("Invoice.pdf")
66     Catch empty As EmptyDocumentException
67         'Show an empty MyDocument error
68         ShowErrorDocument("Document is empty. No invoices were selected.", "")
69     Catch general As Exception
70         'Show a general error
71         ShowErrorDocument(general.Message, general.StackTrace)
72     Finally
73         'If no error end response.
74         Response.End()
75     End Try
76 End Sub
77
78 Private Sub ShowErrorDocument(ByVal Message As String, ByVal StackTrace As String)
79     'Shows the error in a PDF MyDocument
80     Response.Clear()
81     Dim MyDocument As Document = New Document
82     Dim MyPage As ceTe.DynamicPDF.Page = New ceTe.DynamicPDF.Page(PageSize.Letter, PageOrientation.Portrait)
83
84     Dim MyMessage As TextArea = New TextArea(Message, 0, 0, 512, 36, Font.Helvetica, 18, RgbColor.Red)
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85     MyMessage.Height = MyMessage.GetRequiredHeight()
86     MyPage.Elements.Add(MyMessage)
87
88     If StackTrace.Trim().Length > 0 Then
89         Dim StackTraceTop As Single = MyMessage.Y + MyMessage.Height + 20
90
91         Dim StackTraceMessage As TextArea = New TextArea(StackTrace, 0, StackTraceTop, 512, 692 - StackTraceTop,
Font.Helvetica, 10)
92
93         MyPage.Elements.Add(New ceTe.DynamicPDF.PageElements.Label("StackTrace:", 0, StackTraceTop - 12, 512, 12,
Font.HelveticaBold, 10))
94         MyPage.Elements.Add(StackTraceMessage)
95     End If
96     MyDocument.Pages.Add(MyPage)
97     MyDocument.DrawToWeb("ErrorDocument.pdf")
98 End Sub
99
100 Private Function GetOpenDBConn() As SqlConnection
101     'Creates and opens a database connection
102     Dim Connection As SqlConnection = New SqlConnection(DBConnString)
103     Connection.Open()
104     Return Connection
105 End Function
106
107 #End Region
108
109 #Region " MyInvoice Sub Class "
110
111     Public Class MyInvoice
112         Private SubTotal As Decimal = 0
113         Private Freight As Decimal = 0
114
115         Private Shared MyTemplate As Template = New Template
116         Private Shared MyPageTemplateImageSet As Boolean = False
117         Private Shared BGColor As RgbColor = New WebColor("#E0E0FF")
118         Private Shared TotalBGColor As WebColor = New WebColor("#FFC0C0")
119         Private Shared ThankYouTextColor As WebColor = New WebColor("#000080")
120
121         Shared Sub New()
122             'Uncomment the line below to add a layout grid to the MyPages
123             'MyTemplate.Elements.Add(New LayoutGrid())
124
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125         'Top part of Invoice
126         MyTemplate.Elements.Add(New Label("Northwind Traders" & vbCrLf & "1234 International Drive" _
127             & vbCrLf & "Anywhere, Earth ABC123", 56, 0, 200, 44, Font.Helvetica))
128         MyTemplate.Elements.Add(New Label("Invoice", 0, 0, 540, 18, Font.HelveticaBold, 18, TextAlign.Right))
129         MyTemplate.Elements.Add(New PageNumberingLabel("Page %%SP%% of %%ST%% ", 450, 253, 90, 20, Font.HelveticaBold,
130             12, TextAlign.Center))
131         'Add Invoice Details Template
132         MyTemplate.Elements.Add(GetDetailsGroup())
133
134         'Add BillTo Template
135         MyTemplate.Elements.Add(GetBillToGroup())
136
137         'Add ShipTo Template
138         MyTemplate.Elements.Add(GetShipToGroup())
139
140         'Add Line Item Template
141         MyTemplate.Elements.Add(GetLineItemGroup())
142     End Sub
143
144     Public Sub New(ByVal server As System.Web.HttpServerUtility)
145         'Sets the image to the MyPage template
146         'This is done in the constructor because MapPath is not available in the static methods
147         SetPageTemplateImage(server)
148     End Sub
149
150     Public Shared Function GetTemplate()
151         Return MyTemplate
152     End Function
153
154     Private Shared Function GetDetailsGroup() As Group
155         'Returns a group containing the details template
156         Dim MyGroup As Group = New Group
157
158         MyGroup.Add(New Rectangle(340, 24, 200, 72, Grayscale.Black, BGColor, 0.5F))
159         MyGroup.Add(New Label("Order ID:", 343, 25, 85, 12, Font.HelveticaBold, 12, TextAlign.Right))
160         MyGroup.Add(New Label("Order Date:", 343, 39, 85, 12, Font.HelveticaBold, 12, TextAlign.Right))
161         MyGroup.Add(New Label("Customer ID:", 343, 53, 85, 12, Font.HelveticaBold, 12, TextAlign.Right))
162         MyGroup.Add(New Label("Shipped Date:", 343, 67, 85, 12, Font.HelveticaBold, 12, TextAlign.Right))
163         MyGroup.Add(New Label("Order ID:", 343, 25, 85, 12, Font.HelveticaBold, 12, TextAlign.Right))
164         MyGroup.Add(New Label("Shipped Via:", 343, 81, 85, 12, Font.HelveticaBold, 12, TextAlign.Right))
165     End Function
```

```
166         Return MyGroup
167     End Function
168
169     Private Shared Function GetBillToGroup() As Group
170         'Returns a group containing the bill to template
171         Dim MyGroup As Group = New Group
172
173         MyGroup.Add(New Rectangle(25, 120, 200, 90, 0.5F))
174         MyGroup.Add(New Line(25, 136, 225, 136, 0.5F))
175         MyGroup.Add(New Label("Bill To:", 28, 121, 200, 12, Font.HelveticaBold, 12))
176
177         Return MyGroup
178     End Function
179
180     Private Shared Function GetShipToGroup() As Group
181         'Returns a group containing the ship to template
182         Dim MyGroup As Group = New Group
183
184         MyGroup.Add(New Rectangle(315, 120, 200, 90, 0.5F))
185         MyGroup.Add(New Line(315, 136, 515, 136, 0.5F))
186         MyGroup.Add(New Label("Ship To:", 318, 121, 200, 12, Font.HelveticaBold, 12))
187
188         Return MyGroup
189     End Function
190
191     Private Shared Function GetLineItemGroup() As Group
192         'Returns a group containing the line items template
193         Dim MyGroup As Group = New Group
194
195         Dim I As Integer
196         For I = 0 To 10 - 1 Step I + 1
197             MyGroup.Add(New Rectangle(0, 306 + I * 36, 540, 18, Grayscale.Black, BGColor, 0.0F))
198         Next
199         MyGroup.Add(New Rectangle(450, 250, 90, 20, 0.5F))
200         MyGroup.Add(New Rectangle(450, 702, 90, 18, Grayscale.Black, TotalBGColor, 0.0F))
201         MyGroup.Add(New Rectangle(0, 270, 540, 450, 0.5F))
202         MyGroup.Add(New Line(0, 288, 540, 288, 0.5F))
203         MyGroup.Add(New Line(0, 666, 540, 666, 0.5F))
204         MyGroup.Add(New Line(60, 270, 60, 666, 0.5F))
205         MyGroup.Add(New Line(360, 270, 360, 720, 0.5F))
206         MyGroup.Add(New Line(450, 270, 450, 720, 0.5F))
207         MyGroup.Add(New Line(450, 702, 540, 702, 0.5F))
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208 MyGroup.Add(New Label("Quantity", 0, 272, 60, 12, Font.HelveticaBold, 12, TextAlign.Center))
209 MyGroup.Add(New Label("Description", 60, 272, 300, 12, Font.HelveticaBold, 12, TextAlign.Center))
210 MyGroup.Add(New Label("Unit Price", 360, 272, 90, 12, Font.HelveticaBold, 12, TextAlign.Center))
211 MyGroup.Add(New Label("Price", 450, 272, 90, 12, Font.HelveticaBold, 12, TextAlign.Center))
212
213 MyGroup.Add(New Label("Thank you for your purchase." & vbCrLf & "We appreciate your business.", 5, 672, 350, 54,
Font.HelveticaBold, 18, ThankYouTextColor))
214 MyGroup.Add(New Label("Sub Total", 364, 668, 82, 12, Font.HelveticaBold, 12, TextAlign.Right))
215 MyGroup.Add(New Label("Freight", 364, 686, 82, 12, Font.HelveticaBold, 12, TextAlign.Right))
216 MyGroup.Add(New Label("Total", 364, 704, 82, 12, Font.HelveticaBold, 12, TextAlign.Right))
217
218 Return MyGroup
219 End Function
220
221 Private Shared Sub SetPageTemplateImage(ByVal server As System.Web.HttpServerUtility)
222     'Adds the image to MyPage template if it is not already added
223     If Not MyPageTemplateImageSet Then
224         MyTemplate.Elements.Add(New Image(server.MapPath("../Images/DPDFLogo.png"), 0, 0, 0.16F))
225         MyPageTemplateImageSet = True
226     End If
227 End Sub
228
229 Public Sub Draw(ByVal Connection As SqlConnection, ByVal MyDocument As Document, ByVal invoiceNumber As Integer)
230     'Gets the Invoice data
231     Dim Data As SqlDataReader = GetInvoiceData(Connection, invoiceNumber)
232
233     'Adds the invoice if there is Data
234     If Data.Read() Then
235         'Sets the Freight amount
236         Freight = CType(Data("Freight"), Decimal)
237
238         'Draws the invoice data, returns a MyPage object if it is the last MyPage
239         Dim LastPage As Page = DrawInvoiceData(Data, MyDocument)
240         'Draws additional MyPages if necessary
241         While LastPage Is Nothing
242             LastPage = DrawInvoiceData(Data, MyDocument)
243         End While
244
245         'Draws the totals to the bottom of the last MyPage of the Invoice
246         DrawTotals(Data, LastPage)
247     End If
248
```

```
249         'Close DataReader
250         Data.Close()
251     End Sub
252
253     Private Function DrawInvoiceData(ByVal Data As SqlDataReader, ByVal MyDocument As Document) As Page
254         'Tracks if the invoice is finished
255         Dim InvoiceFinished As Boolean = True
256         'Tracks the y position on the MyPage
257         Dim YOffset As Single = 288
258
259         'Create a MyPage for the Invoice
260         Dim MyPage As Page = New Page(PageSize.Letter, PageOrientation.Portrait, 36.0F)
261         'Add Details to the Invoice
262         DrawInvoiceDetails(Data, MyPage)
263         'Add bill to address
264         DrawBillTo(Data, MyPage)
265         'Add ship to address
266         DrawShipTo(Data, MyPage)
267
268         'Add line items to the Invoice
269         While DrawLineItem(Data, MyPage, YOffset)
270             'Break if at the bottom of the MyPage
271             If YOffset >= 666 Then
272                 InvoiceFinished = False
273                 Exit While
274             End If
275         End While
276
277         'Add the MyPage to the MyDocument
278         MyDocument.Pages.Add(MyPage)
279
280         'If Invoice is finished return the MyPage else return null so another MyPage will be added
281         If InvoiceFinished Then
282             Return MyPage
283         Else
284             MyPage.Elements.Add(New Label("Continued...", 454, 704, 82, 12, Font.Helvetica, 12, TextAlign.Right))
285             Return Nothing
286         End If
287     End Function
288
289     Private Sub DrawInvoiceDetails(ByVal Data As SqlDataReader, ByVal MyPage As Page)
290         'Adds Invoice details to the MyPage
```



```
291 MyPage.Elements.Add(New Label(Data("OrderID").ToString(), 437, 25, 100, 12, Font.Helvetica, 12))
292 MyPage.Elements.Add(New Label((CType(Data("OrderDate"), DateTime)).ToString("d MMM yyyy"), 437, 39, 100, 12,
Font.Helvetica, 12))
293 MyPage.Elements.Add(New Label(Data("CustomerID").ToString(), 437, 53, 100, 12, Font.Helvetica, 12))
294 If Not TypeOf Data("ShippedDate") Is DBNull Then
295 MyPage.Elements.Add(New Label((CType(Data("ShippedDate"), DateTime)).ToString("d MMM yyyy"), 437, 67, 100,
12, Font.Helvetica, 12))
296 End If
297 MyPage.Elements.Add(New Label(Data("ShipperName").ToString(), 437, 81, 100, 12, Font.Helvetica, 12))
298 MyPage.Elements.Add(New Interleaved25(Data("OrderID").ToString(), 380, 4, 18, False))
299 End Sub
300
301 Private Sub DrawBillTo(ByVal Data As SqlDataReader, ByVal MyPage As Page)
302 'Adds bill to address
303 Dim BillToAddress As String = _
304 Data("BillName").ToString() & vbCrLf & _
305 Data("BillAddress").ToString() & vbCrLf & _
306 Data("BillCity").ToString() & ", " & _
307 Data("BillPostalCode").ToString() & vbCrLf & _
308 Data("BillCountry").ToString()
309
310 MyPage.Elements.Add(New TextArea(BillToAddress, 28, 138, 194, 70, Font.Helvetica, 12))
311 End Sub
312
313 Private Sub DrawShipTo(ByVal Data As SqlDataReader, ByVal MyPage As Page)
314 'Adds ship to address
315 Dim ShipToAddress As String = _
316 Data("ShipName").ToString() & vbCrLf & _
317 Data("ShipAddress").ToString() & vbCrLf & _
318 Data("ShipCity").ToString() & ", " & _
319 Data("ShipPostalCode").ToString() & vbCrLf & _
320 Data("ShipCountry").ToString()
321
322 MyPage.Elements.Add(New TextArea(ShipToAddress, 318, 138, 194, 70, Font.Helvetica, 12))
323 End Sub
324
325 Private Function DrawLineItem(ByVal Data As SqlDataReader, ByVal MyPage As Page, ByRef YOffset As Single) As Boolean
326 'Adds a line item to the invoice
327 Dim Quantity As Int16 = CType(Data("Quantity"), Int16)
328 Dim UnitPrice As Decimal = CType(Data("UnitPrice"), Decimal)
329 Dim LineTotal As Decimal = UnitPrice * Quantity
330 SubTotal += LineTotal
```

```
331
332     MyPage.Elements.Add(New Label(Quantity.ToString(), 4, 3 + YOffset, 52, 12, Font.Helvetica, 12, TextAlign.Right))
333     MyPage.Elements.Add(New Label(Data("ProductName").ToString(), 64, 3 + YOffset, 292, 12, Font.Helvetica, 12))
334     MyPage.Elements.Add(New Label(UnitPrice.ToString("#,##0.00"), 364, 3 + YOffset, 82, 12, Font.Helvetica, 12,
TextAlign.Right))
335     MyPage.Elements.Add(New Label(LineTotal.ToString("#,##0.00"), 454, 3 + YOffset, 82, 12, Font.Helvetica, 12,
TextAlign.Right))
336
337     YOffset += 18
338
339     'Advances the recordset and returns if there are additional records
340     Return Data.Read()
341 End Function
342
343 Private Sub DrawTotals(ByVal Data As SqlDataReader, ByVal MyPage As Page)
344     'Add totals to the bottom of the Invoice
345     Dim GrandTotal As Decimal = SubTotal + Freight
346
347     MyPage.Elements.Add(New Label(SubTotal.ToString("#,##0.00"), 454, 668, 82, 12, Font.Helvetica, 12,
TextAlign.Right))
348     MyPage.Elements.Add(New Label(Freight.ToString("#,##0.00"), 454, 686, 82, 12, Font.Helvetica, 12,
TextAlign.Right))
349     MyPage.Elements.Add(New Label(GrandTotal.ToString("#,##0.00"), 454, 704, 82, 12, Font.Helvetica, 12,
TextAlign.Right))
350 End Sub
351
352 Private Function GetInvoiceData(ByVal Connection As SqlConnection, ByVal invoiceNumber As Integer) As SqlDataReader
353     'Creates a DataReader for the Invoice
354     Dim command As SqlCommand = Connection.CreateCommand()
355     command.CommandText = "SELECT o.OrderID, o.CustomerID, o.OrderDate, o.ShippedDate, Freight, " & _
356         " o.ShipName, o.ShipAddress, o.ShipCity, o.ShipPostalCode, o.ShipCountry, " & _
357         " c.CompanyName as BillName, c.Address as BillAddress, " & _
358         " c.City as BillCity, c.PostalCode as BillPostalCode, " & _
359         " c.Country as BillCountry, s.CompanyName as ShipperName, " & _
360         " p.ProductName, od.UnitPrice, od.Quantity " & _
361         "FROM Orders o " & _
362         "JOIN Customers c ON " & _
363         " o.CustomerID = c.CustomerID " & _
364         "JOIN Shippers s ON " & _
365         " o.ShipVia = s.ShipperID " & _
366         "JOIN [Order Details] od ON " & _
367         " o.OrderID = od.OrderID " & _
368         "JOIN Products p ON " & _
```

## Invoice.aspx.vb

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```
369         " od.ProductID = p.ProductID " & _
370         "WHERE o.OrderID = " & invoiceNumber
371         Dim DataReader As SqlDataReader = command.ExecuteReader()
372
373         Return DataReader
374     End Function
375
376     End Class
377
378 #End Region
379
380     End Class
381 End Namespace
```