Invoice.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" Inherits="Web_VB.Web_VB.MergerExamples.Invoice" CodeFile="Invoice.aspx.vb" %>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN" >

<html>
  <head>
    <title>DynamicPDF Merger v10.0 for .NET - Invoice Example</title>
    <link rel="stylesheet" type="text/css" href="../DynamicPDF.css">
  </head>
  <body>

    <div id="banner">
      <img src="../Images/DynamicPDF_top.gif" align=right><img src="../Images/ceTeSoftware_top.gif">
      <div id="header"><i>Dynamic</i><b>PDF</b> Merger v10.0 for .NET Examples</div>
      <h1>Invoice Example</h1>
    </div>

   <div id="content">
      <form id="FormFill" method="get" target="_blank" runat="server">
        <h1>Select the invoices to include in the PDF.</h1>
        <asp:CheckBoxList id="chkInvoices" runat="server">
          <asp:ListItem Value="10248">10248</asp:ListItem>
          <asp:ListItem Value="10249">10249</asp:ListItem>
          <asp:ListItem Value="10250">10250</asp:ListItem>
          <asp:ListItem Value="10251">10251</asp:ListItem>
          <asp:ListItem Value="10252">10252</asp:ListItem>
          <asp:ListItem Selected=True Value="10360">10360</asp:ListItem>
          <asp:ListItem Selected=True Value="10979">10979</asp:ListItem>
          <asp:ListItem Value="11077">11077</asp:ListItem>
        </asp:CheckBoxList>
        <asp:Button id="btnCreateInvoices" Text="Create Invoices" runat="server" />
      </form>
 </div>

  </body>
</html>
```

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```
1  Imports System.Data
2  Imports System.Data.SqlClient
3
4  Imports ceTe.DynamicPDF
5  Imports ceTe.DynamicPDF.Merger
6  Imports ceTe.DynamicPDF.PageElements
7  Imports ceTe.DynamicPDF.PageElements.BarCoding
8
9  Namespace Web_VB.Web_VB.MergerExamples
10     Partial Class Invoice
11         Inherits System.Web.UI.Page
12
13
14         ' Connection string to the Northwind database
15         Private Shared dBConnString As String =
   System.Configuration.ConfigurationSettings.AppSettings("NorthWindConnectionString")
16
17 #Region " Page_Load Method "
18
19         Private Sub Page_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
20             If IsPostBack Then
21                 CreateInvoices()
22             End If
23         End Sub
24
25 #End Region
26
27 #Region " Private Methods "
28
29         Private Sub CreateInvoices()
30             ' Create a document and set it's properties
31             Dim MyDocument As Document = New Document
32             MyDocument.Creator = "Invoice.aspx"
33             MyDocument.Author = "ceTe Software"
34             MyDocument.Title = "Invoice"
35
36             ' Establises connection to the database
37             Dim Connection As SqlConnection = GetOpenDBConn()
38
39             ' Add Invoices to the document
40             Dim Item As System.Web.UI.WebControls.ListItem
41             For Each Item In chkInvoices.Items
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42                  If Item.Selected Then
43                      Dim Invoice As MyInvoice = New MyInvoice(Me.Server)
44                      Invoice.Draw(Connection, MyDocument, Integer.Parse(Item.Value))
45                  End If
46              Next
47
48              ' Cleans up database connections
49              Connection.Close()
50
51              ' Outputs the Invoices to the current web MyPage
52              Try
53                  MyDocument.DrawToWeb("Invoice.pdf")
54              Catch Empty As EmptyDocumentException
55                  ' Show an empty document error
56                  ShowErrorDocument("Document is empty. No invoices were selected.", "")
57              Catch General As Exception
58                  ' Show a general error
59                  ShowErrorDocument(General.Message, General.StackTrace)
60              Finally
61                  Visible = False
62              End Try
63          End Sub
64
65          Private Function GetOpenDBConn() As SqlConnection
66              ' Creates and opens a database connection
67              Dim Connection As SqlConnection = New SqlConnection(dBConnString)
68              Connection.Open()
69              Return Connection
70          End Function
71
72          Private Sub ShowErrorDocument(ByVal Message As String, ByVal StackTrace As String)
73              ' Shows the error in a PDF document
74              Response.Clear()
75              Dim MyDocument As Document = New Document
76              Dim MyPage As ceTe.DynamicPDF.Page = New ceTe.DynamicPDF.Page(PageSize.Letter, PageOrientation.Portrait)
77
78              Dim MyMessage As TextArea = New TextArea(Message, 0, 0, 512, 36, Font.Helvetica, 18, RgbColor.Red)
79              MyMessage.Height = MyMessage.GetRequiredHeight()
80              MyPage.Elements.Add(MyMessage)
81
82              If StackTrace.Trim().Length > 0 Then
83                  Dim StackTraceTop As Single = MyMessage.Y + MyMessage.Height + 20
```

```
84
85                  Dim MyStackTrace As TextArea = New TextArea(StackTrace, 0, StackTraceTop, 512, 692 - StackTraceTop,
Font.Helvetica, 10)
86
87                  MyPage.Elements.Add(New ceTe.DynamicPDF.PageElements.Label("StackTrace:", 0, StackTraceTop - 12, 512, 12,
Font.HelveticaBold, 10))
88                  MyPage.Elements.Add(MyStackTrace)
89              End If
90              MyDocument.Pages.Add(MyPage)
91              MyDocument.DrawToWeb("ErrorDocument.pdf")
92              Response.End()
93          End Sub
94
95  #End Region
96
97  #Region " MyInvoice Sub Class "
98
99          Private Class MyInvoice
100             Private Shared TemplatePath As String
101
102             Private SubTotal As Decimal = 0
103             Private Freight As Decimal = 0
104
105             Private Shared TemplatePathSet As Boolean = False
106
107             Public Sub New(ByVal Server As System.Web.HttpServerUtility)
108                 ' Sets the template files path
109                 ' This is done in the constructor because MapPath is not available within the subclass
110                 SetTemplatePath(Server)
111             End Sub
112
113             Private Sub SetTemplatePath(ByVal Server As System.Web.HttpServerUtility)
114                 ' Adds the image to MyPage template if it is not already added
115                 If Not TemplatePathSet Then
116                     TemplatePath = Server.MapPath("../PDFs/Invoice.pdf")
117                     TemplatePathSet = True
118                 End If
119             End Sub
120
121             Public Sub Draw(ByVal Connection As SqlConnection, ByVal MyDocument As Document, ByVal InvoiceNumber As Integer)
122                 ' Each Invoice should begin a new section
123                 MyDocument.Sections.Begin()
```

```
124
125             ' Gets the Invoice data
126             Dim Data As SqlDataReader = GetInvoiceData(Connection, InvoiceNumber)
127
128             ' Adds the invoice if there is data
129             If Data.Read() Then
130                 ' Sets the Freight amount
131                 Freight = CType(Data("Freight"), Decimal)
132
133                 ' Draws the invoice data, returns a MyPage object if it is the last MyPage
134                 Dim LastPage As Page = DrawInvoiceData(Data, MyDocument)
135                 ' Draws aditional MyPages if necessary
136                 Do While LastPage Is Nothing
137                     LastPage = DrawInvoiceData(Data, MyDocument)
138                 Loop
139
140                 DrawTotals(Data, LastPage)
141             End If
142
143             ' Close DataReader
144             Data.Close()
145         End Sub
146
147         Private Function DrawInvoiceData(ByVal Data As SqlDataReader, ByVal MyDocument As Document) As Page
148             ' Tracks if the invoice is finished
149             Dim InvoiceFinished As Boolean = True
150             ' Tracks the y position on the MyPage
151             Dim YOffset As Single = 288
152
153             ' Create a MyPage using "Invoice.pdf" as a template
154             Dim MyPage As Page = New ImportedPage(TemplatePath, 1)
155
156             ' Uncomment the line below to show a layout grid.
157             'MyPage.Elements.Add(New LayoutGrid())
158
159             ' Add Details to the Invoice
160             DrawInvoiceDetails(Data, MyPage)
161             ' Add bill to address
162             DrawBillTo(Data, MyPage)
163             ' Add ship to address
164             DrawShipTo(Data, MyPage)
165
```

```
166                 ' Add line items to the Invoice
167                 While DrawLineItem(Data, MyPage, YOffset)
168                     ' Break if at the bottom of the MyPage
169                     If YOffset >= 666 Then
170                         InvoiceFinished = False
171                         Exit While
172                     End If
173                 End While
174 
175                 ' Add the MyPage to the document
176                 MyDocument.Pages.Add(MyPage)
177 
178                 ' If Invoice is finished return the MyPage else return null so another MyPage will be added
179                 If InvoiceFinished Then
180                     Return MyPage
181                 Else
182                     MyPage.Elements.Add(New Label("Continued...", 454, 704, 82, 12, Font.Helvetica, 12, TextAlign.Right))
183                     Return Nothing
184                 End If
185             End Function
186 
187             Private Sub DrawInvoiceDetails(ByVal Data As SqlDataReader, ByVal MyPage As Page)
188                 ' Adds Invoice details to the MyPage
189                 MyPage.Elements.Add(New Label(Data("OrderID").ToString(), 437, 25, 100, 12, Font.Helvetica, 12))
190                 MyPage.Elements.Add(New Label((CType(Data("OrderDate"), DateTime)).ToString("d MMM yyyy"), 437, 39, 100, 12,
    Font.Helvetica, 12))
191                 MyPage.Elements.Add(New Label(Data("CustomerID").ToString(), 437, 53, 100, 12, Font.Helvetica, 12))
192 
193                 If Not TypeOf Data("ShippedDate") Is DBNull Then
194                     MyPage.Elements.Add(New Label((CType(Data("ShippedDate"), DateTime)).ToString("d MMM yyyy"), 437, 67, 100,
    12, Font.Helvetica, 12))
195                 End If
196                 MyPage.Elements.Add(New Label(Data("ShipperName").ToString(), 437, 81, 100, 12, Font.Helvetica, 12))
197                 MyPage.Elements.Add(New Interleaved25(Data("OrderID").ToString(), 380, 4, 18, False))
198                 MyPage.Elements.Add(New PageNumberingLabel("Page %%SP%% of %%ST%% ", 450, 253, 90, 20, Font.HelveticaBold, 12,
    TextAlign.Center))
199             End Sub
200 
201             Private Sub DrawBillTo(ByVal Data As SqlDataReader, ByVal MyPage As Page)
202                 ' Adds bill to address
203                 Dim BillToAddress As String = Data("BillName").ToString() & vbCrLf & _
204                     Data("BillAddress").ToString() & vbCrLf & _
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205                     Data("BillCity").ToString() & ", " & _
206                     Data("BillPostalCode").ToString() & vbCrLf & _
207                     Data("BillCountry").ToString()
208
209                 MyPage.Elements.Add(New TextArea(BillToAddress, 28, 138, 194, 70, Font.Helvetica, 12))
210             End Sub
211
212             Private Sub DrawShipTo(ByVal Data As SqlDataReader, ByVal MyPage As Page)
213                 ' Adds ship to address
214                 Dim ShipToAddress As String = _
215                     Data("ShipName").ToString() & vbCrLf & _
216                     Data("ShipAddress").ToString() & vbCrLf & _
217                     Data("ShipCity").ToString() & ", " & _
218                     Data("ShipPostalCode").ToString() & vbCrLf & _
219                     Data("ShipCountry").ToString()
220
221                 MyPage.Elements.Add(New TextArea(ShipToAddress, 318, 138, 194, 70, Font.Helvetica, 12))
222             End Sub
223
224             Private Function DrawLineItem(ByVal Data As SqlDataReader, ByVal MyPage As Page, ByRef YOffset As Single) As Boolean
225                 ' Adds a line item to the invoice
226                 Dim Quantity As Int16 = CType(Data("Quantity"), Int16)
227                 Dim UnitPrice As Decimal = CType(Data("UnitPrice"), Decimal)
228                 Dim LineTotal As Decimal = UnitPrice * Quantity
229                 SubTotal += LineTotal
230
231                 MyPage.Elements.Add(New Label(Quantity.ToString(), 4, 2 + YOffset, 52, 12, Font.Helvetica, 12, TextAlign.Right))
232                 MyPage.Elements.Add(New Label(Data("ProductName").ToString(), 64, 2 + YOffset, 292, 12, Font.Helvetica, 12))
233                 MyPage.Elements.Add(New Label(UnitPrice.ToString("#,##0.00"), 364, 2 + YOffset, 82, 12, Font.Helvetica, 12,
TextAlign.Right))
234                 MyPage.Elements.Add(New Label(LineTotal.ToString("#,##0.00"), 454, 2 + YOffset, 82, 12, Font.Helvetica, 12,
TextAlign.Right))
235
236                 YOffset += 18
237
238                 ' Advanses the recordset and returns if there are additional records
239                 Return Data.Read()
240             End Function
241
242             Private Sub DrawTotals(ByVal Data As SqlDataReader, ByVal MyPage As Page)
243                 ' Add totals to the bottom of the Invoice
244                 Dim GrandTotal As Decimal = SubTotal + Freight
```

```
245
246                 MyPage.Elements.Add(New Label(SubTotal.ToString("#,##0.00"), 454, 668, 82, 12, Font.Helvetica, 12,
    TextAlign.Right))
247                 MyPage.Elements.Add(New Label(Freight.ToString("#,##0.00"), 454, 686, 82, 12, Font.Helvetica, 12,
    TextAlign.Right))
248                 MyPage.Elements.Add(New Label(GrandTotal.ToString("#,##0.00"), 454, 704, 82, 12, Font.Helvetica, 12,
    TextAlign.Right))
249             End Sub
250
251             Private Function GetInvoiceData(ByVal Connection As SqlConnection, ByVal InvoiceNumber As Integer) As SqlDataReader
252                 ' Creates a DataReader for the Invioce
253                 Dim Command As SqlCommand = Connection.CreateCommand()
254                 Command.CommandText = _
255                     "SELECT o.OrderID, o.CustomerID, o.OrderDate, o.ShippedDate, Freight, " & _
256                     "  o.ShipName, o.ShipAddress, o.ShipCity, o.ShipPostalCode, o.ShipCountry, " & _
257                     "  c.CompanyName as BillName, c.Address as BillAddress, " & _
258                     "  c.City as BillCity, c.PostalCode as BillPostalCode, " & _
259                     "  c.Country as BillCountry, s.CompanyName as ShipperName, " & _
260                     "  p.ProductName, od.UnitPrice, od.Quantity " & _
261                     "FROM Orders o " & _
262                     "JOIN Customers c ON " & _
263                     "  o.CustomerID = c.CustomerID " & _
264                     "JOIN Shippers s ON " & _
265                     "  o.ShipVia = s.ShipperID " & _
266                     "JOIN [Order Details] od ON " & _
267                     "  o.OrderID = od.OrderID " & _
268                     "JOIN Products p ON " & _
269                     "  od.ProductID = p.ProductID " & _
270                     "WHERE o.OrderID = " & InvoiceNumber
271                 Dim DataReader As SqlDataReader = Command.ExecuteReader()
272
273                 Return DataReader
274             End Function
275
276         End Class
277
278 #End Region
279
280 #Region " Web Form Designer Generated Code "
281
282         'This call is required by the Web Form Designer.
283         <System.Diagnostics.DebuggerStepThrough()> Private Sub InitializeComponent()
```

```
284
285         End Sub
286
287         Private Sub Page_Init(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Init
288             'CODEGEN: This method call is required by the Web Form Designer
289             'Do not modify it using the code editor.
290             InitializeComponent()
291         End Sub
292
293 #End Region
294     End Class
295 End Namespace
```