

Printer Caps 5



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/*  
Professional Windows GUI Programming Using C#  
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*/
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```
using System;
```

```
using System.Drawing;
```

```
using System.Collections;
```

```
using System.ComponentModel;
```

```
using System.Windows.Forms;
```

```
using System.Data;
```

```
using System.Drawing.Printing;
```

```
using System.Drawing.Drawing2D;
```

```
namespace PrinterCaps5
```

```
{
```

```
public class PrinterCaps5 : System.Windows.Forms.Form
```

```
{
```

```
private int m_nCurrPrinter;
```

```
private int m_nCurrPage;
```

```
private System.Drawing.Printing.PrintDocument printDoc;
```

```
private System.Windows.Forms.PrintPreviewDialog ppDialog;
```

```
private System.Windows.Forms.Button btnPrint;
```

```
private System.Windows.Forms.PrintDialog oPrintDialog;
```

```
private System.ComponentModel.Container components = null;
```

```
public PrinterCaps5()
```

```
{
```

```
InitializeComponent();
```

```

}

///

/// Clean up any resources being used.
///
protected override void Dispose( bool disposing )
{
if( disposing )
{
if (components != null)
{
components.Dispose();
}
}
base.Dispose( disposing );
}

#region Windows Form Designer generated code
///

/// Required method for Designer support – do not modify
/// the contents of this method with the code editor.
///
private void InitializeComponent()
{
// System.Resources.ResourceManager resources = new
System.Resources.ResourceManager(typeof(PrinterCaps5));
this.printDoc = new System.Drawing.Printing.PrintDocument();
this.ppDialog = new System.Windows.Forms.PrintPreviewDialog();
this.btnPrint = new System.Windows.Forms.Button();
this.oPrintDialog = new System.Windows.Forms.PrintDialog();
this.SuspendLayout();
//
// printDoc
//
this.printDoc.PrintPage += new
System.Drawing.Printing.PrintPageEventHandler(this.printDoc_Pr
intPage);

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//
// ppDialog
//
this.ppDialog.AutoScrollMargin = new System.Drawing.Size(0,
0);
this.ppDialog.AutoScrollMinSize = new System.Drawing.Size(0,
0);
this.ppDialog.ClientSize = new System.Drawing.Size(400, 300);
this.ppDialog.Enabled = true;
//          this.ppDialog.Icon          =
((System.Drawing.Icon)(resources.GetObject("ppDialog.Icon")));
this.ppDialog.Location = new System.Drawing.Point(142, 13);
this.ppDialog.MaximumSize = new System.Drawing.Size(0, 0);
this.ppDialog.Name = "ppDialog";
this.ppDialog.Opacity = 1;
this.ppDialog.TransparencyKey = System.Drawing.Color.Empty;
this.ppDialog.Visible = false;
//
// btnPrint
//
this.btnPrint.Location = new System.Drawing.Point(52, 28);
this.btnPrint.Name = "btnPrint";
this.btnPrint.TabIndex = 0;
this.btnPrint.Text = "Print";
this.btnPrint.Click          +=          new
System.EventHandler(this.btnPrint_Click);
//
// oPrintDialog
//
this.oPrintDialog.AllowSomePages = true;
//
// PrinterCaps5
//
this.AutoScaleBaseSize = new System.Drawing.Size(5, 13);
this.ClientSize = new System.Drawing.Size(176, 86);
this.Controls.AddRange(new System.Windows.Forms.Control[] {
this.btnPrint});

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this.FormBorderStyle =
System.Windows.Forms.FormBorderStyle.FixedDialog;
this.Name = "PrinterCaps5";
this.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen;
this.Text = "Printer Caps";
this.ResumeLayout(false);

}
#endregion

///

/// The main entry point for the application.
///
[STAThread]
static void Main()
{
Application.Run(new PrinterCaps5());
}

private void printDoc_PrintPage(object sender,
System.Drawing.Printing.PrintPageEventArgs e)
{
PrinterSettings pSettings = new PrinterSettings();
Font printFont = new Font("Arial", 12);

//Use the Margins
int nTextPosY = e.MarginBounds.Top;
int nTextPosX = e.MarginBounds.Left;
int nHeight = (int)printFont.GetHeight(e.Graphics);

//Height of a printer block
int nBlockHeight = 9 * nHeight;

if(e.PageSettings.PrinterSettings.PrintRange ==
PrintRange.SomePages)
{
while(m_nCurrPage < e.PageSettings.PrinterSettings.FromPage) {

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//Move printer to next page block m_nCurrPrinter +=
(int)(e.MarginBounds.Height / nBlockHeight); m_nCurrPage++;
if(m_nCurrPrinter > PrinterSettings.InstalledPrinters.Count)
return;
}

if(m_nCurrPage > e.PageSettings.PrinterSettings.ToPage)
{
//Don't print anything more
return;
}
}

//Print Background Graphic
LinearGradientBrush aBrush =
new
LinearGradientBrush(e.MarginBounds,Color.FromArgb(100,Color.Li
ghtBlue),
Color.FromArgb(100,Color.Blue),LinearGradientMode.ForwardDiago
nal);
e.Graphics.FillRectangle(aBrush,e.MarginBounds);

//Loop through using indexor now
//Start with the previous index in m_nCurrPrinter
for(int x = m_nCurrPrinter;x<
PrinterSettings.InstalledPrinters.Count; x++)//each(string
sPtr in PrinterSettings.InstalledPrinters) {
pSettings.PrinterName = PrinterSettings.InstalledPrinters[x];
if(pSettings.IsValid) { //Ensure this printer block can fit on
the page if(nTextPosY + nBlockHeight < e.MarginBounds.Bottom)
{ //Print the caps of the printer
e.Graphics.DrawString(PrinterSettings.InstalledPrinters[x],
printFont,Brushes.Black, nTextPosX, nTextPosY + 5);
e.Graphics.DrawString("Can Duplex: " +
pSettings.CanDuplex.ToString(), printFont,Brushes.Black,
nTextPosX + 10, nTextPosY + (5 + nHeight));
e.Graphics.DrawString("Is Default: " +
pSettings.IsDefaultPrinter.ToString(),

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printFont,Brushes.Black, nTextPosX + 10, nTextPosY + (5 +
nHeight*2)); e.Graphics.DrawString("Is Plotter: " +
pSettings.IsPlotter.ToString(), printFont,Brushes.Black,
nTextPosX + 10, nTextPosY + (5 + nHeight*3));
e.Graphics.DrawString("Landscape Angle: " +
pSettings.LandscapeAngle.ToString(), printFont,Brushes.Black,
nTextPosX + 10, nTextPosY + (5 + nHeight*4));
e.Graphics.DrawString("Maximum Copies: " +
pSettings.MaximumCopies.ToString(), printFont,Brushes.Black,
nTextPosX + 10, nTextPosY + (5 + nHeight*5));
e.Graphics.DrawString("Maximum Page: " +
pSettings.MaximumPage.ToString(), printFont,Brushes.Black,
nTextPosX + 10, nTextPosY + (5 + nHeight*6));
e.Graphics.DrawString("Minimum Page: " +
pSettings.MinimumPage.ToString(), printFont,Brushes.Black,
nTextPosX + 10, nTextPosY + (5 + nHeight*7));
e.Graphics.DrawString("Supports Color: " +
pSettings.SupportsColor.ToString(), printFont,Brushes.Black,
nTextPosX + 10, nTextPosY + (5 + nHeight*8)); nTextPosY =
nTextPosY + ((5 + nHeight*8) + nHeight); //Draw line after
each
e.Graphics.DrawLine(System.Drawing.Pens.Black,nTextPosX,nTextP
osY,e.MarginBounds.Right - 10,nTextPosY);
e.Graphics.FillEllipse(System.Drawing.Brushes.Black,e.MarginBo
unds.Right - 10,nTextPosY-5,10,10); } else { //Could nto fit
block on the page - need more pages m_nCurrPrinter = x;
e.HasMorePages = true; return; } } //Last page if we reached
here e.HasMorePages = false; m_nCurrPrinter = 0; return; }
private void btnPrint_Click(object sender, System.EventArgs e)
{ //Set to defaults m_nCurrPrinter = 0; m_nCurrPage = 1;
oPrintDialog.Document = printDoc; if
(oPrintDialog.ShowDialog() == DialogResult.OK) { try {
ppDialog.Document = printDoc; ppDialog.ShowDialog(); }
catch(Exception ex) { MessageBox.Show(ex.ToString()); } } }
} [/csharp]

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