PDF Combiner

A simple Windows Forms app to combine multiple PDF files in a single PDF file

Table of Contents

1 Symbol Reference

1.1 PdfCombiner Namespace

This is namespace PdfCombiner.

Namespaces

Name	Description
Properties (↗ see page 1)	This is namespace PdfCombiner.Properties.

Classes

	Name	Description
A	BaseException (↗ see page 4)	This function is used to take exceptions which can be thrown in PDF Combiner App
S	ExceptionExtensions (↗ see page 5)	This is class PdfCombiner.ExceptionExtensions.
	FrmMain (↗ see page 6)	This is class PdfCombiner.FrmMain.
S	Program (↗ see page 26)	This is class PdfCombiner.Program.

1.1.1 PdfCombiner.Properties Namespace

This is namespace PdfCombiner.Properties.

Classes

	Name	Description
	Resources (↗ see page 1)	A strongly-typed resource class, for looking up localized strings, etc.
	Settings (↗ see page 3)	This is class PdfCombiner.Properties.Settings.

1.1.1.1 Classes

The following table lists classes in this documentation.

Classes

	Name	Description
	Resources (↗ see page 1)	A strongly-typed resource class, for looking up localized strings, etc.
	Settings (↗ see page 3)	This is class PdfCombiner.Properties.Settings.

1.1.1.1.1 Resources Class

A strongly-typed resource class, for looking up localized strings, etc.

Class Hierarchy

C#

```
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Resources.Tools.StronglyType
dResourceBuilder",
"15.0.0.0")]
[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
internal class Resources;
```

File

Resources.Designer.cs (see page 44)

Description

This class was auto-generated by the StronglyTypedResourceBuilder class via a tool like ResGen or Visual Studio. To add or remove a member, edit your .ResX file then rerun ResGen with the /str option, or rebuild your VS project.

Methods

	Name	Description
	Resources (see page 2)	This is Resources, a member of class Resources.

Resources Fields

	Name	Description
S	resourceCulture (see page 2)	This is resourceCulture, a member of class Resources.
S	resourceMan (see page 3)	This is resourceMan, a member of class Resources.

Resources Properties

	Name	Description
S	AppTitle (see page 3)	Looks up a localized string similar to PDF Birlestirici.
S	Culture (see page 3)	Overrides the current thread's CurrentUICulture property for all resource lookups using this strongly typed resource class.
S	ResourceManager (see page 3)	Returns the cached ResourceManager instance used by this class.

1.1.1.1.1.1 Resources.Resources Constructor

C#

```
[global::System.Diagnostics.CodeAnalysis.SuppressMessageAttribute("Microsoft.Performance",
"CA1811:AvoidUncalledPrivateCode")]
internal Resources();
```

Description

This is Resources, a member of class Resources.

Body Source

```
[global::System.Diagnostics.CodeAnalysis.SuppressMessageAttribute("Microsoft.Performance",
"CA1811:AvoidUncalledPrivateCode")]
internal Resources() {
}
```

1.1.1.1.1.2 Resources Fields

1.1.1.1.1.2.1 Resources.resourceCulture Field

C#

```
private static global::System.Globalization.CultureInfo resourceCulture;
```

Description

This is resourceCulture, a member of class Resources.

1.1.1.1.1.2.2 Resources.resourceMan Field

C#

```
private static global::System.Resources.ResourceManager resourceMan;
```

Description

This is resourceMan, a member of class Resources.

1.1.1.1.1.3 Resources Properties

1.1.1.1.1.3.1 Resources.AppTitle Property

Looks up a localized string similar to PDF Birlestirici.

C#

```
internal static string AppTitle;
```

1.1.1.1.1.3.2 Resources.Culture Property

Overrides the current thread's CurrentUICulture property for all resource lookups using this strongly typed resource class.

C#

```
[global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.Editor
BrowsableState.Advanced)]
internal static global::System.Globalization.CultureInfo Culture;
```

1.1.1.1.1.3.3 Resources.ResourceManager Property

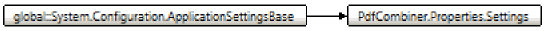
Returns the cached ResourceManager instance used by this class.

C#

```
[global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.Editor
BrowsableState.Advanced)]
internal static global::System.Resources.ResourceManager ResourceManager;
```

1.1.1.1.2 Settings Class

Class Hierarchy


global::System.Configuration.ApplicationSettingsBase
PdfCombiner.Properties.Settings

C#

```
[global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.VisualStudio.Editors.Sett
ingsDesigner.SettingsSingleFileGenerator",
"11.0.0.0")]
internal sealed class Settings : global::System.Configuration.ApplicationSettingsBase;
```

File

Settings.Designer.cs (see page 45)

Description

This is class PdfCombiner.Properties.Settings.

Settings Fields

	Name	Description
S	defaultInstance (↗ see page 4)	This is defaultInstance, a member of class Settings.

1.1.1.1.2.1 Settings Fields

1.1.1.1.2.1.1 Settings.defaultInstance Field

C#

```
private static Settings defaultInstance =
((Settings)(global::System.Configuration.ApplicationSettingsBase.Synchronized(new
Settings())));
```

Description

This is defaultInstance, a member of class Settings.

1.1.2 Classes

The following table lists classes in this documentation.

Classes

	Name	Description
A	BaseException (↗ see page 4)	This function is used to take exceptions which can be thrown in PDF Combiner App
S	ExceptionExtensions (↗ see page 5)	This is class PdfCombiner.ExceptionExtensions.
	FrmMain (↗ see page 6)	This is class PdfCombiner.FrmMain.
S	Program (↗ see page 26)	This is class PdfCombiner.Program.

1.1.2.1 BaseException Class

This function is used to take exceptions which can be thrown in PDF Combiner App

Class Hierarchy

Exception
PdfCombiner.BaseException

C#

```
[Serializable]
public abstract class BaseException : Exception;
```

File

BaseException.cs (↗ see page 28)

Methods

	Name	Description
	BaseException (↗ see page 5)	This is BaseException, a member of class BaseException.

1.1.2.1.1 BaseException Constructor

1.1.2.1.1.1 BaseException.BaseException Constructor ()

C#

```
protected BaseException();
```

Description

This is BaseException, a member of class BaseException.

Body Source

```
protected BaseException()
{
}
```

1.1.2.1.1.2 BaseException.BaseException Constructor (string)

C#

```
protected BaseException(string message);
```

Description

This is BaseException, a member of class BaseException.

Body Source

```
protected BaseException(string message) : base(message)
{
}
```

1.1.2.1.1.3 BaseException.BaseException Constructor (string, Exception)

C#

```
protected BaseException(string message, Exception innerException);
```

Description

This is BaseException, a member of class BaseException.

Body Source

```
protected BaseException(string message, Exception innerException) : base(message, innerException)
{
}
```

1.1.2.2 ExceptionExtensions Class

Class Hierarchy

C#

```
public static class ExceptionExtensions;
```

File

ExceptionExtensions.cs (see page 29)

Description

This is class PdfCombiner.ExceptionExtensions.

ExceptionExtensions Methods

	Name	Description
◆ S	GetAllMessages (see page 6)	This method is used to take all messages with stack trace info in exception

1.1.2.2.1 ExceptionExtensions Methods

1.1.2.2.1.1 ExceptionExtensions.GetAllMessages Method

This method is used to take all messages with stack trace info in exception

C#

```
public static string GetAllMessages(this Exception exception);
```

Parameters

Parameters	Description
this Exception exception	Exception

Returns

Detailed Error Message

Body Source

```
public static string GetAllMessages(this Exception exception)
{
    var messages = exception.Message;
    if (exception.InnerException != null)
        messages += " " + exception.InnerException.GetAllMessages();
    if (!string.IsNullOrEmpty(exception.StackTrace))
        messages += " " + exception.StackTrace;
    if (!string.IsNullOrEmpty(exception.Source))
        messages += " " + exception.Source;
    return messages;
}
```

1.1.2.3 FrmMain Class

Class Hierarchy

C#

```
public class FrmMain : Form;
```

File

FrmMain.Designer.cs (see page 38)

Description

This is class PdfCombiner.FrmMain.

Methods

	Name	Description
◆	FrmMain (see page 8)	This is FrmMain, a member of class FrmMain.

FrmMain Fields

	Name	Description
	btnAddFile (see page 8)	This is btnAddFile, a member of class FrmMain.
	btnAddFolder (see page 9)	This is btnAddFolder, a member of class FrmMain.
	btnClearList (see page 9)	This is btnClearList, a member of class FrmMain.
	btnCombineITextSharp (see page 9)	This is btnCombineITextSharp, a member of class FrmMain.
	btnCombinePdfSharp (see page 9)	This is btnCombinePdfSharp, a member of class FrmMain.
	cmbLanguage (see page 9)	This is cmbLanguage, a member of class FrmMain.
	components (see page 9)	Required designer variable.
	lbFiles (see page 9)	This is lbFiles, a member of class FrmMain.
	lblDetails (see page 10)	This is lblDetails, a member of class FrmMain.
	menuItemDelete (see page 10)	This is menuItemDelete, a member of class FrmMain.
	menuItemOrderByNameAscending (see page 10)	This is menuItemOrderByNameAscending, a member of class FrmMain.
	menuItemOrderByNameDescending (see page 10)	This is menuItemOrderByNameDescending, a member of class FrmMain.
	menuItemOrderByPathAscending (see page 10)	This is menuItemOrderByPathAscending, a member of class FrmMain.
	menuItemOrderByPathDescending (see page 10)	This is menuItemOrderByPathDescending, a member of class FrmMain.
	menuStrip (see page 10)	This is menuStrip, a member of class FrmMain.
	pbFiles (see page 11)	This is pbFiles, a member of class FrmMain.
S	resource (see page 11)	This is resource, a member of class FrmMain.

FrmMain Methods

	Name	Description
	btnAddFile_Click (see page 11)	It is used to add single or multiple PDF files to combine When you choose file or files The listbox in the form will be filled with the name of the files Which you choose to combine
	btnAddFolder_Click (see page 12)	This function is used to add PDF files in a folder which you choose in Folder Dialog recursively When you use it the added files will be seen in listbox
	btnClearList_Click (see page 12)	This function is used to clear the file list in listbox
	btnCombineITextSharp_Click (see page 13)	This function is used to take list of PDF files in listbox, Combine them with a single file in location which you choose in folder dialog And you can see the progress in progress bar It uses iTextSharp Nuget Package
	btnCombinePdfSharp_Click (see page 14)	This function is used to take list of PDF files in listbox, Combine them with a single file in location which you choose in folder dialog And you can see the progress in progress bar It uses PdfSharp Nuget Package
	cmbLanguage_SelectedIndexChanged (see page 15)	This function is used to set the resource (see page 11) file And with this, you can see form elements, info messages etc. with the selected resource (see page 11) file contents. That is used to multi language support
	DeleteFilesFromListBox (see page 16)	This method is used to Delete selected files from ListBox This is used different ways in this app So we created this as a method
	Dispose (see page 16)	Clean up any resources being used.
	FormMembersNameInitialization (see page 17)	This method is used to change text of form members by the Resource file which is selected

	FrmMain_FormClosed (↗ see page 17)	This function is used to terminate application
	FrmMain_Shown (↗ see page 18)	This function is used to assign menu to listbox When form is shown
	InitializeComponent (↗ see page 18)	Required method for Designer support - do not modify the contents of this method with the code editor.
S	InitializeFileDialog (↗ see page 21)	This function is used to set options of file dialog like Filter, start path etc.
	lbFiles_DragDrop (↗ see page 22)	This is used to drag and drop an item in listbox Which is used to order books and combine them with that order
	lbFiles_DragOver (↗ see page 22)	This is used to give effect while dragging and dropping an item in listbox
	lbFiles_KeyDown (↗ see page 22)	This function is used to delete files in listbox which are chosen If you press the Delete button in your keyboard The selected files will be deleted from the list
	lbFiles_MouseDown (↗ see page 23)	This is used to control mouse actions and if that is not right click Start to drag and drop item in listbox
	menuItemDelete_Click (↗ see page 23)	This is used to delete selected items in listbox When menu item Delete is clicked and opened dialog
	menuItemOrderByNameAscending_Click (↗ see page 24)	This method is used to order elements in listbox ascending by file name
	menuItemOrderByNameDescending_Click (↗ see page 24)	This method is used to order elements in listbox descending by file name
	menuItemOrderByPathAscending_Click (↗ see page 24)	This method is used to order elements in listbox ascending by full path
	menuItemOrderByPathDescending_Click (↗ see page 25)	This method is used to order elements in listbox descending by full path
S	SortItemsByName (↗ see page 25)	This method is used to order items by file name in listbox And return them with the given order as parametre
S	SortItemsByPath (↗ see page 26)	This method is used to order items by full path in listbox And return them with the given order as parametre

1.1.2.3.1 FrmMain.FrmMain Constructor

C#

```
public FrmMain();
```

Description

This is FrmMain, a member of class FrmMain.

Body Source

```
public FrmMain()
{
    InitializeComponent();
}
```

1.1.2.3.2 FrmMain Fields

1.1.2.3.2.1 FrmMain.btnAddFile Field

C#

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

Description

This is btnAddFile, a member of class FrmMain.

1.1.2.3.2.2 FrmMain.btnAddFolder Field

C#

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

Description

This is btnAddFolder, a member of class FrmMain.

1.1.2.3.2.3 FrmMain.btnClearList Field

C#

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

Description

This is btnClearList, a member of class FrmMain.

1.1.2.3.2.4 FrmMain.btnCombineITextSharp Field

C#

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

Description

This is btnCombineITextSharp, a member of class FrmMain.

1.1.2.3.2.5 FrmMain.btnCombinePdfSharp Field

C#

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

Description

This is btnCombinePdfSharp, a member of class FrmMain.

1.1.2.3.2.6 FrmMain.cmbLanguage Field

C#

```
public System.Windows.Forms.ComboBox cmbLanguage;
```

Description

This is cmbLanguage, a member of class FrmMain.

1.1.2.3.2.7 FrmMain.components Field

Required designer variable.

C#

```
private System.ComponentModel.IContainer components;
```

1.1.2.3.2.8 FrmMain.lbFiles Field

C#

```
private System.Windows.Forms.ListBox lbFiles;
```

Description

This is lbFiles, a member of class FrmMain.

1.1.2.3.2.9 FrmMain.lblDetails Field

C#

```
private System.Windows.Forms.Label lblDetails;
```

Description

This is lblDetails, a member of class FrmMain.

1.1.2.3.2.10 FrmMain.menuItemDelete Field

C#

```
private System.Windows.Forms.ToolStripMenuItem menuItemDelete;
```

Description

This is menuItemDelete, a member of class FrmMain.

1.1.2.3.2.11 FrmMain.menuItemOrderByNameAscending Field

C#

```
private System.Windows.Forms.ToolStripMenuItem menuItemOrderByNameAscending;
```

Description

This is menuItemOrderByNameAscending, a member of class FrmMain.

1.1.2.3.2.12 FrmMain.menuItemOrderByNameDescending Field

C#

```
private System.Windows.Forms.ToolStripMenuItem menuItemOrderByNameDescending;
```

Description

This is menuItemOrderByNameDescending, a member of class FrmMain.

1.1.2.3.2.13 FrmMain.menuItemOrderByPathAscending Field

C#

```
private System.Windows.Forms.ToolStripMenuItem menuItemOrderByPathAscending;
```

Description

This is menuItemOrderByPathAscending, a member of class FrmMain.

1.1.2.3.2.14 FrmMain.menuItemOrderByPathDescending Field

C#

```
private System.Windows.Forms.ToolStripMenuItem menuItemOrderByPathDescending;
```

Description

This is menuItemOrderByPathDescending, a member of class FrmMain.

1.1.2.3.2.15 FrmMain.menuStrip Field

C#

```
private System.Windows.Forms.ContextMenuStrip menuStrip;
```

Description

This is menuStrip, a member of class FrmMain.

1.1.2.3.2.16 FrmMain.pbFiles Field

C#

```
private System.Windows.Forms.ProgressBar pbFiles;
```

Description

This is pbFiles, a member of class FrmMain.

1.1.2.3.2.17 FrmMain.resource Field

C#

```
public static ResourceManager resource;
```

Description

This is resource, a member of class FrmMain.

1.1.2.3.3 FrmMain Methods

1.1.2.3.3.1 FrmMain.btnAddFile_Click Method

It is used to add single or multiple PDF files to combine When you choose file or files The listbox in the form will be filled with the name of the files Which you choose to combine

C#

```
private void btnAddFile_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void btnAddFile_Click(object sender, EventArgs e)
{
    using (var dialogAddFile = new OpenFileDialog())
    {
        InitializeFileDialog(dialogAddFile);
        var result = dialogAddFile.ShowDialog();
        var addedFileCount = 0;
        if (result == DialogResult.OK && dialogAddFile.FileNames != null)
        {
            foreach (var file in dialogAddFile.FileNames)
            {
                if (!lbFiles.Items.Contains(file))
                {
                    lbFiles.Items.Add(file);
                    addedFileCount++;
                }
            }
            MessageBox.Show(addedFileCount + resource.GetString("FileAddMessage"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
    }
}
```

1.1.2.3.3.2 FrmMain.btnAddFolder_Click Method

This function is used to add PDF files in a folder which you choose in Folder Dialog recursively When you use it the added files will be seen in listbox

C#

```
private void btnAddFolder_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void btnAddFolder_Click(object sender, EventArgs e)
{
    using (var dialogAddFolder = new FolderBrowserDialog())
    {
        var result = dialogAddFolder.ShowDialog();
        if (result == DialogResult.OK && !string.IsNullOrEmpty(dialogAddFolder.SelectedPath))
        {
            var fileNames = Directory.GetFiles(dialogAddFolder.SelectedPath, "*.pdf", SearchOption.AllDirectories);
            var addedFileCount = 0;
            foreach (var file in fileNames)
            {
                if (!lbFiles.Items.Contains(file))
                {
                    lbFiles.Items.Add(file);
                    addedFileCount++;
                }
            }
            MessageBox.Show(addedFileCount + resource.GetString("FileAddMessage"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
    }
}
```

1.1.2.3.3.3 FrmMain.btnClearList_Click Method

This function is used to clear the file list in listbox

C#

```
private void btnClearList_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void btnClearList_Click(object sender, EventArgs e)
{
    var fileCount = lbFiles.Items.Count;
    lbFiles.Items.Clear();
    MessageBox.Show(fileCount + resource.GetString("DeleteFileMessage"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
}
```

1.1.2.3.3.4 FrmMain.btnCombineITextSharp_Click Method

This function is used to take list of PDF files in listbox, Combine them with a single file in location which you choose in folder dialog And you can see the progress in progress bar It uses iTextSharp Nuget Package

C#

```
private void btnCombineITextSharp_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void btnCombineITextSharp_Click(object sender, EventArgs e)
{
    try
    {
        if (lbFiles.Items.Count < 2)
            MessageBox.Show(resource.GetString("CombineWarning"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        else
        {
            using (var dialogExport = new FolderBrowserDialog())
            {
                var result = dialogExport.ShowDialog();
                if (result == DialogResult.OK && !string.IsNullOrEmpty(dialogExport.SelectedPath))
                {
                    var outputFileName = dialogExport.SelectedPath + "/" + Guid.NewGuid() + ".pdf";
                    var fileCount = lbFiles.Items.Count;
                    var combinedFiles = 0;

                    var outputFile = new Document();
                    using (FileStream outputFileStream = new FileStream(outputFileName, FileMode.Create))
                    {
                        using (var pdfWriter = new iTextSharp.text.pdf.PdfCopy(outputFile, outputFileStream))
                        {
                            if (pdfWriter == null)
                            {
                                return;
                            }
                            pdfWriter.SetFullCompression();
                            outputFile.Open();
                            for (int i = 0; i < lbFiles.Items.Count; i++)
                            {
                                try
                                {
                                    var pdfReader = new iTextSharp.text.pdf.PdfReader(lbFiles.Items[i].ToString());
                                    pdfReader.ConsolidateNamedDestinations();
                                    for (int j = 1; j <= pdfReader.NumberOfPages; j++)
                                    {
                                        var page = pdfWriter.GetImportedPage(pdfReader, j);
                                        pdfWriter.AddPage(page);
                                    }
                                    pdfReader.Close();
                                    combinedFiles++;
                                }
                                catch (Exception)
                                {
                                    fileCount--;
                                }

                                pbFiles.Value = (combinedFiles * 100 / fileCount);
                                if (pbFiles.Value > pbFiles.Maximum)
                                    pbFiles.Value = pbFiles.Maximum;
                                ActiveForm.Text = "%" + pbFiles.Value;
                            }
                            pdfWriter.Close();
                        }
                        outputFile.Close();
                    }

                    MessageBox.Show(fileCount +
resource.GetString("CombineFileMessage") + outputFileName, resource.GetString("AppTitle"),
MessageBoxButtons.OK, MessageBoxIcon.Information);

                    pbFiles.Value = pbFiles.Minimum;
                    ActiveForm.Text = resource.GetString("AppTitle");
                }
            }
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(resource.GetString("CombineErrorMessage") +
ex.GetAllMessages(), resource.GetString("AppTitle"), MessageBoxButtons.OK,
MessageBoxIcon.Error);
        pbFiles.Value = pbFiles.Minimum;
        ActiveForm.Text = resource.GetString("AppTitle");
    }
}
```

1.1.2.3.3.5 FrmMain.btnCombinePdfSharp_Click Method

This function is used to take list of PDF files in listbox, Combine them with a single file in location which you choose in folder dialog And you can see the progress in progress bar It uses PdfSharp Nuget Package

C#

```
private void btnCombinePdfSharp_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void btnCombinePdfSharp_Click(object sender, EventArgs e)
{
    try
    {
        if (lbFiles.Items.Count < 2)
            MessageBox.Show(resource.GetString("CombineWarning"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        else
        {
            using (var dialogExport = new FolderBrowserDialog())
            {
                var result = dialogExport.ShowDialog();
                if (result == DialogResult.OK &&
!string.IsNullOrEmpty(dialogExport.SelectedPath))
                {
                    var outputFileName = dialogExport.SelectedPath + "/" +
Guid.NewGuid() + ".pdf";
```

```
                    using (var outputFile = new PdfDocument())
                    {
                        outputFile.Options.CompressContentStreams = true;
                        outputFile.Options.EnableCcittCompressionForBilevelImages = true;
                        outputFile.Options.FlateEncodeMode = PdfFlateEncodeMode.BestCompression;
                        var fileCount = lbFiles.Items.Count;
                        var combinedFiles = 0;

                        for (int i = 0; i < lbFiles.Items.Count; i++)
                        {
                            try
                            {
                                var inputDocument = PdfReader.Open(lbFiles.Items[i].ToString(), PdfDocumentOpenMode.Import);
                                var count = inputDocument.PageCount;
                                for (int idx = 0; idx < count; idx++)
                                {
                                    var page = inputDocument.Pages[idx];
                                    outputFile.AddPage(page);
                                }
                                inputDocument.Close();
                                combinedFiles++;
                            }
                            catch (Exception)
                            {
                                fileCount--;
                            }

                            pbFiles.Value = (combinedFiles * 100 / fileCount);
                            if (pbFiles.Value > pbFiles.Maximum)
                                pbFiles.Value = pbFiles.Maximum;
                            ActiveForm.Text = "%" + pbFiles.Value;
                        }
                        outputFile.Save(outputFileName);
                        outputFile.Close();

                        MessageBox.Show(fileCount + resource.GetString("CombineFileMessage") + outputFileName, resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
                    }

                    pbFiles.Value = pbFiles.Minimum;
                    ActiveForm.Text = resource.GetString("AppTitle");
                }
            }
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(resource.GetString("CombineErrorMessage") + ex.GetAllMessages(), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        pbFiles.Value = pbFiles.Minimum;
        ActiveForm.Text = resource.GetString("AppTitle");
    }
}
```

1.1.2.3.3.6 FrmMain.cmbLanguage_SelectedIndexChanged Method

This function is used to set the resource (see page 11) file And with this, you can see form elements, info messages etc. with the selected resource (see page 11) file contents. That is used to multi language support

C#

```
private void cmbLanguage_SelectedIndexChanged(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void cmbLanguage_SelectedIndexChanged(object sender, EventArgs e)
{
    if (cmbLanguage.SelectedIndex != -1)
    {
        try
        {
            resource = new ResourceManager("PdfCombiner.Resources.AppResources-" + cmbLanguage.SelectedItem.ToString().ToLower(), Assembly.GetExecutingAssembly());
            FormMembersNameInitialization();
        }
        catch (Exception)
        {
            resource = new ResourceManager("PdfCombiner.Resources.AppResources-en", Assembly.GetExecutingAssembly());
            FormMembersNameInitialization();
        }

    }
}
```

1.1.2.3.3.7 FrmMain.DeleteFilesFromListBox Method

This method is used to Delete selected files from ListBox This is used different ways in this app So we created this as a method

C#

```
private void DeleteFilesFromListBox();
```

Body Source

```
private void DeleteFilesFromListBox()
{
    var allItems = new List<string>();
    var removedItems = new List<string>();
    var fileCount = lbFiles.SelectedItems.Count;
    for (int i = 0; i < lbFiles.SelectedItems.Count; i++)
    {
        removedItems.Add(lbFiles.SelectedItems[i].ToString());
    }
    foreach (var item in lbFiles.Items)
    {
        if (!removedItems.Any(j => j == item.ToString()))
            allItems.Add(item.ToString());
    }
    lbFiles.Items.Clear();
    foreach (var item in allItems)
    {
        lbFiles.Items.Add(item);
    }
    MessageBox.Show(fileCount + resource.GetString("DeleteFileMessage"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
}
```

1.1.2.3.3.8 FrmMain.Dispose Method

Clean up any resources being used.

C#

```
protected override void Dispose(bool disposing);
```

Parameters

Parameters	Description
bool disposing	true if managed resources should be disposed; otherwise, false.

Body Source

```
protected override void Dispose(bool disposing)
{
    if (disposing && (components != null))
    {
        components.Dispose();
    }
    base.Dispose(disposing);
}
```

1.1.2.3.3.9 FrmMain.FormMembersNameInitialization Method

This method is used to change text of form members by the Resource file which is selected

C#

```
private void FormMembersNameInitialization();
```

Body Source

```
private void FormMembersNameInitialization()
{
    ActiveForm.Text = resource.GetString("AppTitle");
    btnAddFile.Text = resource.GetString("AddFile");
    btnAddFolder.Text = resource.GetString("AddFolder");
    btnClearList.Text = resource.GetString("ClearFileList");
    btnCombineITextSharp.Text = resource.GetString("CombineFilesITextSharp");
    btnCombinePdfSharp.Text = resource.GetString("CombineFilesPdfSharp");
    menuItemDelete.Text = resource.GetString("Delete");
    menuItemOrderByPathAscending.Text = resource.GetString("OrderByPathAscending");
    menuItemOrderByPathDescending.Text = resource.GetString("OrderByPathDescending");
    menuItemOrderByNameAscending.Text = resource.GetString("OrderByNameAscending");
    menuItemOrderByNameDescending.Text = resource.GetString("OrderByNameDescending");
    cmbLanguage.Text = resource.GetString("SelectLanguage");
}
```

1.1.2.3.3.10 FrmMain.FrmMain_FormClosed Method

This function is used to terminate application

C#

```
private void FrmMain_FormClosed(object sender, FormClosedEventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
FormClosedEventArgs e	Event Arguments

Body Source

```
private void FrmMain_FormClosed(object sender, FormClosedEventArgs e)
{
    MessageBox.Show(resource.GetString("ThanksMessage"), resource.GetString("AppTitle"),
MessageBoxButtons.OK, MessageBoxIcon.Information);
    Application.Exit();
}
```

1.1.2.3.3.11 FrmMain.FrmMain_Shown Method

This function is used to assign menu to listbox When form is shown

C#

```
private void FrmMain_Shown(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void FrmMain_Shown(object sender, EventArgs e)
{
    lbFiles.ContextMenuStrip = menuStrip;
    cmbLanguage.DropDownStyle = ComboBoxStyle.DropDownList;
    resource = new ResourceManager("PdfCombiner.Resources.AppResources-tr", Assembly.GetExecutingAssembly());
    FormMembersNameInitialization();
}
```

1.1.2.3.3.12 FrmMain.InitializeComponent Method

Required method for Designer support - do not modify the contents of this method with the code editor.

C#

```
private void InitializeComponent();
```

Body Source

```
private void InitializeComponent()
{
    this.components = new System.ComponentModel.Container();
    System.ComponentModel.ComponentResourceManager resources = new System.ComponentModel.ComponentResourceManager(typeof(FrmMain));
    this.btnCombinePdfSharp = new System.Windows.Forms.Button();
    this.btnAddFolder = new System.Windows.Forms.Button();
    this.btnAddFile = new System.Windows.Forms.Button();
    this.btnClearList = new System.Windows.Forms.Button();
    this.lbFiles = new System.Windows.Forms.ListBox();
    this.lblDetails = new System.Windows.Forms.Label();
    this.pbFiles = new System.Windows.Forms.ProgressBar();
    this.btnCombineITextSharp = new System.Windows.Forms.Button();
    this.menuStrip = new System.Windows.Forms.ContextMenuStrip(this.components);
    this.menuItemDelete = new System.Windows.Forms.ToolStripMenuItem();
    this.menuItemOrderByPathAscending = new System.Windows.Forms.ToolStripMenuItem();
    this.menuItemOrderByPathDescending = new System.Windows.Forms.ToolStripMenuItem();
    this.menuItemOrderByNameAscending = new System.Windows.Forms.ToolStripMenuItem();
    this.menuItemOrderByNameDescending = new System.Windows.Forms.ToolStripMenuItem();
    this.cmbLanguage = new System.Windows.Forms.ComboBox();
    this.menuStrip.SuspendLayout();
    this.SuspendLayout();
    //
    // btnCombinePdfSharp
    //
    this.btnCombinePdfSharp.Image = ((System.Drawing.Image)(resources.GetObject("btnCombinePdfSharp.Image")));
    this.btnCombinePdfSharp.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
    this.btnCombinePdfSharp.Location = new System.Drawing.Point(442, 5);
    this.btnCombinePdfSharp.Name = "btnCombinePdfSharp";
    this.btnCombinePdfSharp.Size = new System.Drawing.Size(214, 37);
    this.btnCombinePdfSharp.TabIndex = 0;
    this.btnCombinePdfSharp.Text = "Combine Files (PdfSharp)";
    this.btnCombinePdfSharp.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
```

```
      this.btnCombinePdfSharp.UseVisualStyleBackColor = true;
      this.btnCombinePdfSharp.Click += new System.EventHandler(this.btnCombinePdfSharp_Click);
      //
      // btnAddFolder
      //
      this.btnAddFolder.Image = ((System.Drawing.Image)(resources.GetObject("btnAddFolder.Image")));
      this.btnAddFolder.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
      this.btnAddFolder.Location = new System.Drawing.Point(197, 5);
      this.btnAddFolder.Name = "btnAddFolder";
      this.btnAddFolder.Size = new System.Drawing.Size(171, 37);
      this.btnAddFolder.TabIndex = 2;
      this.btnAddFolder.Text = "Add Folder";
      this.btnAddFolder.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
      this.btnAddFolder.UseVisualStyleBackColor = true;
      this.btnAddFolder.Click += new System.EventHandler(this.btnAddFolder_Click);
      //
      // btnAddFile
      //
      this.btnAddFile.Image = ((System.Drawing.Image)(resources.GetObject("btnAddFile.Image")));
      this.btnAddFile.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
      this.btnAddFile.Location = new System.Drawing.Point(12, 5);
      this.btnAddFile.Name = "btnAddFile";
      this.btnAddFile.Size = new System.Drawing.Size(179, 37);
      this.btnAddFile.TabIndex = 3;
      this.btnAddFile.Text = "Add Files";
      this.btnAddFile.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
      this.btnAddFile.UseVisualStyleBackColor = true;
      this.btnAddFile.Click += new System.EventHandler(this.btnAddFile_Click);
      //
      // btnClearList
      //
      this.btnClearList.Image = ((System.Drawing.Image)(resources.GetObject("btnClearList.Image")));
      this.btnClearList.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
      this.btnClearList.Location = new System.Drawing.Point(12, 45);
      this.btnClearList.Name = "btnClearList";
      this.btnClearList.Size = new System.Drawing.Size(179, 37);
      this.btnClearList.TabIndex = 4;
      this.btnClearList.Text = "Clear File List";
      this.btnClearList.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
      this.btnClearList.UseVisualStyleBackColor = true;
      this.btnClearList.Click += new System.EventHandler(this.btnClearList_Click);
      //
      // lbFiles
      //
      this.lbFiles.AllowDrop = true;
      this.lbFiles.FormattingEnabled = true;
      this.lbFiles.Location = new System.Drawing.Point(12, 88);
      this.lbFiles.Name = "lbFiles";
      this.lbFiles.SelectionMode = System.Windows.Forms.SelectionMode.MultiExtended;
      this.lbFiles.Size = new System.Drawing.Size(644, 186);
      this.lbFiles.TabIndex = 5;
      this.lbFiles.DragDrop += new System.Windows.Forms.DragEventHandler(this.lbFiles_DragDrop);
      this.lbFiles.DragOver += new System.Windows.Forms.DragEventHandler(this.lbFiles_DragOver);
      this.lbFiles.KeyDown += new System.Windows.Forms.KeyEventHandler(this.lbFiles_KeyDown);
      this.lbFiles.MouseDown += new System.Windows.Forms.MouseEventHandler(this.lbFiles_MouseDown);
      //
      // lblDetails
      //
      this.lblDetails.AutoSize = true;
      this.lblDetails.Location = new System.Drawing.Point(12, 65);
      this.lblDetails.Name = "lblDetails";
```

```
         this.lblDetails.Size = new System.Drawing.Size(0, 13);
         this.lblDetails.TabIndex = 6;
         //
         // pbFiles
         //
         this.pbFiles.Location = new System.Drawing.Point(197, 45);
         this.pbFiles.Name = "pbFiles";
         this.pbFiles.Size = new System.Drawing.Size(239, 37);
         this.pbFiles.TabIndex = 7;
         //
         // btnCombineITextSharp
         //
         this.btnCombineITextSharp.Image = ((System.Drawing.Image)
(resources.GetObject("btnCombineITextSharp.Image")));
         this.btnCombineITextSharp.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
         this.btnCombineITextSharp.Location = new System.Drawing.Point(442, 45);
         this.btnCombineITextSharp.Name = "btnCombineITextSharp";
         this.btnCombineITextSharp.Size = new System.Drawing.Size(214, 37);
         this.btnCombineITextSharp.TabIndex = 9;
         this.btnCombineITextSharp.Text = "Combine Files (iTextSharp)";
         this.btnCombineITextSharp.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
         this.btnCombineITextSharp.UseVisualStyleBackColor = true;
         this.btnCombineITextSharp.Click += new
System.EventHandler(this.btnCombineITextSharp_Click);
         //
         // menuStrip
         //
         this.menuStrip.Items.AddRange(new System.Windows.Forms.ToolStripItem[]
{this.menuItemDelete, this.menuItemOrderByPathAscending,
this.menuItemOrderByPathDescending, this.menuItemOrderByNameAscending,
this.menuItemOrderByNameDescending});
         this.menuStrip.Name = "menuStrip";
         this.menuStrip.Size = new System.Drawing.Size(229, 114);
         //
         // menuItemDelete
         //
         this.menuItemDelete.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemDelete.Image")));
         this.menuItemDelete.Name = "menuItemDelete";
         this.menuItemDelete.Size = new System.Drawing.Size(228, 22);
         this.menuItemDelete.Text = "Delete";
         this.menuItemDelete.Click += new System.EventHandler(this.menuItemDelete_Click);
         //
         // menuItemOrderByPathAscending
         //
         this.menuItemOrderByPathAscending.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemOrderByPathAscending.Image")));
         this.menuItemOrderByPathAscending.Name = "menuItemOrderByPathAscending";
         this.menuItemOrderByPathAscending.Size = new System.Drawing.Size(228, 22);
         this.menuItemOrderByPathAscending.Text = "Order By Path (Ascending)";
         this.menuItemOrderByPathAscending.Click += new
System.EventHandler(this.menuItemOrderByPathAscending_Click);
         //
         // menuItemOrderByPathDescending
         //
         this.menuItemOrderByPathDescending.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemOrderByPathDescending.Image")));
         this.menuItemOrderByPathDescending.Name = "menuItemOrderByPathDescending";
         this.menuItemOrderByPathDescending.Size = new System.Drawing.Size(228, 22);
         this.menuItemOrderByPathDescending.Text = "Order By Path (Descending)";
         this.menuItemOrderByPathDescending.Click += new
System.EventHandler(this.menuItemOrderByPathDescending_Click);
         //
         // menuItemOrderByNameAscending
         //
         this.menuItemOrderByNameAscending.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemOrderByNameAscending.Image")));
         this.menuItemOrderByNameAscending.Name = "menuItemOrderByNameAscending";
         this.menuItemOrderByNameAscending.Size = new System.Drawing.Size(228, 22);
```

```
    this.menuItemOrderByNameAscending.Text = "Order By Name (Ascending)";
    this.menuItemOrderByNameAscending.Click += new System.EventHandler(this.menuItemOrderByNameAscending_Click);
    //
    // menuItemOrderByNameDescending
    //
    this.menuItemOrderByNameDescending.Image = ((System.Drawing.Image)(resources.GetObject("menuItemOrderByNameDescending.Image")));
    this.menuItemOrderByNameDescending.Name = "menuItemOrderByNameDescending";
    this.menuItemOrderByNameDescending.Size = new System.Drawing.Size(228, 22);
    this.menuItemOrderByNameDescending.Text = "Order By Name (Descending)";
    this.menuItemOrderByNameDescending.Click += new System.EventHandler(this.menuItemOrderByNameDescending_Click);
    //
    // cmbLanguage
    //
    this.cmbLanguage.Anchor = System.Windows.Forms.AnchorStyles.None;
    this.cmbLanguage.FormattingEnabled = true;
    this.cmbLanguage.Items.AddRange(new object[] {"TR", "EN", "DE", "FR", "RU", "ES"});
    this.cmbLanguage.Location = new System.Drawing.Point(374, 12);
    this.cmbLanguage.Name = "cmbLanguage";
    this.cmbLanguage.Size = new System.Drawing.Size(62, 21);
    this.cmbLanguage.TabIndex = 10;
    this.cmbLanguage.Text = "Select Language";
    this.cmbLanguage.SelectedIndexChanged += new System.EventHandler(this.cmbLanguage_SelectedIndexChanged);
    //
    // FrmMain
    //
    this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
    this.ClientSize = new System.Drawing.Size(668, 287);
    this.Controls.Add(this.cmbLanguage);
    this.Controls.Add(this.btnCombineITextSharp);
    this.Controls.Add(this.pbFiles);
    this.Controls.Add(this.lblDetails);
    this.Controls.Add(this.lbFiles);
    this.Controls.Add(this.btnClearList);
    this.Controls.Add(this.btnAddFile);
    this.Controls.Add(this.btnAddFolder);
    this.Controls.Add(this.btnCombinePdfSharp);
    this.Name = "FrmMain";
    this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
    this.Text = "PDF Combiner";
    this.FormClosed += new System.Windows.Forms.FormClosedEventHandler(this.FrmMain_FormClosed);
    this.Shown += new System.EventHandler(this.FrmMain_Shown);
    this.menuStrip.ResumeLayout(false);
    this.ResumeLayout(false);
    this.PerformLayout();
}
```

1.1.2.3.3.13 FrmMain.InitializeFileDialog Method

This function is used to set options of file dialog like Filter, start path etc.

C#

```
private static void InitializeFileDialog(OpenFileDialog dialogAddFile);
```

Parameters

Parameters	Description
OpenFileDialog dialogAddFile	File Dialog

Body Source

```
private static void InitializeFileDialog(OpenFileDialog dialogAddFile)
{
    dialogAddFile.Multiselect = true;
    dialogAddFile.Filter = resource.GetString("PdfFiles") + " (*.pdf)|*.pdf";
    dialogAddFile.InitialDirectory = Application.StartupPath;
    dialogAddFile.Title = resource.GetString("SelectPdfFile");
    dialogAddFile.DefaultExt = "PDF";
}
```

1.1.2.3.3.14 FrmMain.lbFiles_DragDrop Method

This is used to drag and drop an item in listbox Which is used to order books and combine them with that order

C#

```
private void lbFiles_DragDrop(object sender, DragEventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
DragEventArgs e	Event Arguments

Description

m>

Body Source

```
private void lbFiles_DragDrop(object sender, DragEventArgs e)
{
    var point = lbFiles.PointToClient(new Point(e.X, e.Y));
    var index = this.lbFiles.IndexFromPoint(point);
    if (index < 0) index = this.lbFiles.Items.Count - 1;
    // type of string because file names stored in string in listbox
    var data = e.Data.GetData(typeof(string));
    this.lbFiles.Items.Remove(data);
    this.lbFiles.Items.Insert(index, data);
}
```

1.1.2.3.3.15 FrmMain.lbFiles_DragOver Method

This is used to give effect while dragging and dropping an item in listbox

C#

```
private void lbFiles_DragOver(object sender, DragEventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
DragEventArgs e	Event Arguments

Body Source

```
private void lbFiles_DragOver(object sender, DragEventArgs e)
{
    e.Effect = DragDropEffects.Move;
}
```

1.1.2.3.3.16 FrmMain.lbFiles_KeyDown Method

This function is used to delete files in listbox which are chosen If you press the Delete button in your keyboard The selected files will be deleted from the list

C#

```
private void lbFiles_KeyDown(object sender, KeyEventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
KeyEventArgs e	Event Arguments

Body Source

```
private void lbFiles_KeyDown(object sender, KeyEventArgs e)
{
    if (e.KeyValue == Keys.Delete.GetHashCode())
        DeleteFilesFromListBox();
}
```

1.1.2.3.3.17 FrmMain.lbFiles_MouseDown Method

This is used to control mouse actions and if that is not right click Start to drag and drop item in listbox

C#

```
private void lbFiles_MouseDown(object sender, MouseEventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
MouseEventArgs e	Event Arguments

Body Source

```
private void lbFiles_MouseDown(object sender, MouseEventArgs e)
{
    if (!e.Button.Equals(MouseButtons.Right))
    {
        if (lbFiles.SelectedItem == null) return;
        lbFiles.DoDragDrop(lbFiles.SelectedItem, DragDropEffects.Move);
    }
}
```

1.1.2.3.3.18 FrmMain.menuItemDelete_Click Method

This is used to delete selected items in listbox When menu item Delete is clicked and opened dialog

C#

```
private void menuItemDelete_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void menuItemDelete_Click(object sender, EventArgs e)
{
    if (lbFiles.Items.Count > 0)
    {
        if (lbFiles.SelectedItems.Count > 0)
        {
            var deleteDialog = new DialogResult();
            deleteDialog = MessageBox.Show(resource.GetString("DeleteWarning1") +
lbFiles.SelectedItems.Count + resource.GetString("DeleteWarning2"),
resource.GetString("AppTitle"), MessageBoxButtons.YesNo, MessageBoxIcon.Warning);
            if (deleteDialog == DialogResult.Yes)
                DeleteFilesFromListBox();
        }
        else
            MessageBox.Show(resource.GetString("NoSelectedFile"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
    else
        MessageBox.Show(resource.GetString("NoFile"), resource.GetString("AppTitle"),
MessageBoxButtons.OK, MessageBoxIcon.Error);
}
```

1.1.2.3.3.19 FrmMain.menuItemOrderByNameAscending_Click Method

This method is used to order elements in listbox ascending by file name

C#

```
private void menuItemOrderByNameAscending_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void menuItemOrderByNameAscending_Click(object sender, EventArgs e)
{
    if (lbFiles.Items.Count > 0)
        lbFiles = SortItemsByName(lbFiles, true);
    else
        MessageBox.Show(resource.GetString("NoFile"), resource.GetString("AppTitle"),
MessageBoxButtons.OK, MessageBoxIcon.Error);
}
```

1.1.2.3.3.20 FrmMain.menuItemOrderByNameDescending_Click Method

This method is used to order elements in listbox descending by file name

C#

```
private void menuItemOrderByNameDescending_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void menuItemOrderByNameDescending_Click(object sender, EventArgs e)
{
    if (lbFiles.Items.Count > 0)
        lbFiles = SortItemsByName(lbFiles, false);
    else
        MessageBox.Show(resource.GetString("NoFile"), resource.GetString("AppTitle"),
MessageBoxButtons.OK, MessageBoxIcon.Error);
}
```

1.1.2.3.3.21 FrmMain.menuItemOrderByPathAscending_Click Method

This method is used to order elements in listbox ascending by full path

C#

```
private void menuItemOrderByPathAscending_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void menuItemOrderByPathAscending_Click(object sender, EventArgs e)
{
    if (lbFiles.Items.Count > 0)
        lbFiles = SortItemsByPath(lbFiles, true);
    else
        MessageBox.Show(resource.GetString("NoFile"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
}
```

1.1.2.3.3.22 FrmMain.menuItemOrderByPathDescending_Click Method

This method is used to order elements in listbox descending by full path

C#

```
private void menuItemOrderByPathDescending_Click(object sender, EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
EventArgs e	Event Arguments

Body Source

```
private void menuItemOrderByPathDescending_Click(object sender, EventArgs e)
{
    if (lbFiles.Items.Count > 0)
        lbFiles = SortItemsByPath(lbFiles, false);
    else
        MessageBox.Show(resource.GetString("NoFile"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
}
```

1.1.2.3.3.23 FrmMain.SortItemsByName Method

This method is used to order items by file name in listbox And return them with the given order as parametre

C#

```
private static ListBox SortItemsByName(ListBox listBox, bool ascending);
```

Parameters

Parameters	Description
ListBox listBox	ListBox Info
bool ascending	Order Type is Ascending Or Not

Body Source

```
private static ListBox SortItemsByName(ListBox listBox, bool ascending)
{
    var fileNameList = new List<string>();
    List<object> items;
    items = listBox.Items.OfType<object>().ToList();
    const char c = '\u005c';
    foreach (var item in items)
    {
        var fullPath = item.ToString();
        var list = fullPath.Split(c).ToList();
        if (list.Count > 0)
            fileNameList.Add(list[list.Count - 1]);
    }

    if (ascending)
        fileNameList = fileNameList.OrderBy(j => j).ToList();
    else
        fileNameList = fileNameList.OrderByDescending(j => j).ToList();

    listBox.Items.Clear();
    foreach (var item in fileNameList)
        listBox.Items.Add(items.First(j => j.ToString().EndsWith(item)));

    return listBox;
}
```

1.1.2.3.3.24 FrmMain.SortItemsByPath Method

This method is used to order items by full path in listbox And return them with the given order as parametre

C#

```
private static ListBox SortItemsByPath(ListBox listBox, bool ascending);
```

Parameters

Parameters	Description
ListBox listBox	ListBox Info
bool ascending	Order Type is Ascending Or Not

Body Source

```
private static ListBox SortItemsByPath(ListBox listBox, bool ascending)
{
    List<object> items;
    items = listBox.Items.OfType<object>().ToList();
    listBox.Items.Clear();
    if (ascending)
        listBox.Items.AddRange(items.OrderBy(i => i).ToArray());
    else
        listBox.Items.AddRange(items.OrderByDescending(i => i).ToArray());
    return listBox;
}
```

1.1.2.4 Program Class

Class Hierarchy

C#

```
public static class Program;
```

File

Program.cs (see page 43)

Description

This is class PdfCombiner.Program.

Program Methods

	Name	Description
S	Main (see page 27)	The main entry point for the application.

1.1.2.4.1 Program Methods

1.1.2.4.1.1 Program.Main Method

The main entry point for the application.

C#

```
[STAThread]
private static void Main();
```

Body Source

```
[STAThread]
static void Main()
{
    Application.EnableVisualStyles();
    Application.SetCompatibleTextRenderingDefault(false);
    Application.Run(new FrmMain());
}
```

1.2 Files

The following table lists files in this documentation.

Files

Name	Description
AssemblyInfo.cs (↗ see page 27)	This is file AssemblyInfo.cs.
BaseException.cs (↗ see page 28)	This is file BaseException.cs.
ExceptionExtensions.cs (↗ see page 29)	This is file ExceptionExtensions.cs.
FrmMain.cs (↗ see page 29)	This is file FrmMain.cs.
FrmMain.Designer.cs (↗ see page 38)	This is file FrmMain.Designer.cs.
PdfCombiner.csproj (↗ see page 43)	This is file PdfCombiner.csproj.
PdfCombiner.sln (↗ see page 43)	This is file PdfCombiner.sln.
Program.cs (↗ see page 43)	This is file Program.cs.
Resources.Designer.cs (↗ see page 44)	This code was generated by a tool. Runtime Version:4.0.30319.42000 Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.
Settings.Designer.cs (↗ see page 45)	This code was generated by a tool. Runtime Version:4.0.30319.42000 Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.

1.2.1 AssemblyInfo.cs

This is file AssemblyInfo.cs.

Body Source

```
?using System.Reflection;
using System.Runtime.CompilerServices;
using System.Runtime.InteropServices;

```

```
// General Information about an assembly is controlled through the following
// set of attributes. Change these attribute values to modify the information
// associated with an assembly.
[assembly: AssemblyTitle("PdfCombiner")]
[assembly: AssemblyDescription("")]
[assembly: AssemblyConfiguration("")]
[assembly: AssemblyCompany("")]
[assembly: AssemblyProduct("PdfCombiner")]
[assembly: AssemblyCopyright("Copyright ©  2022")]
[assembly: AssemblyTrademark("")]
[assembly: AssemblyCulture("")]

// Setting ComVisible to false makes the types in this assembly not visible
// to COM components.  If you need to access a type in this assembly from
// COM, set the ComVisible attribute to true on that type.
[assembly: ComVisible(false)]

// The following GUID is for the ID of the typelib if this project is exposed to COM
[assembly: Guid("48e34ee8-dfaa-48db-acfd-70573cee9c00")]

// Version information for an assembly consists of the following four values:
//
//      Major Version
//      Minor Version
//      Build Number
//      Revision
//
// You can specify all the values or you can default the Build and Revision Numbers
// by using the '*' as shown below:
// [assembly: AssemblyVersion("1.0.*")]
[assembly: AssemblyVersion("1.0.0.0")]
[assembly: AssemblyFileVersion("1.0.0.0")]
```

1.2.2 BaseException.cs

This is file BaseException.cs.

Body Source

```
?using System;

namespace PdfCombiner
{
    /// <summary>
    /// This function is used to take exceptions which can be thrown in
    /// PDF Combiner App
    /// </summary>
    [Serializable]
    public abstract class BaseException : Exception
    {
        protected BaseException()
        {
        }

        protected BaseException(string message) : base(message)
        {
        }

        protected BaseException(string message, Exception innerException) : base(message, innerException)
        {
        }
    }
}
```

Namespaces

Name	Description
PdfCombiner (↗ see page 1)	This is namespace PdfCombiner.

1.2.3 ExceptionExtensions.cs

This is file ExceptionExtensions.cs.

Body Source

```
?using System;

namespace PdfCombiner
{
    public static class ExceptionExtensions
    {
        /// <summary>
        /// This method is used to take all messages with stack trace info in exception
        /// </summary>
        /// <param name="exception">Exception</param>
        /// <returns>Detailed Error Message</returns>
        public static string GetAllMessages(this Exception exception)
        {
            var messages = exception.Message;
            if (exception.InnerException != null)
                messages += " " + exception.InnerException.GetAllMessages();
            if (!string.IsNullOrEmpty(exception.StackTrace))
                messages += " " + exception.StackTrace;
            if (!string.IsNullOrEmpty(exception.Source))
                messages += " " + exception.Source;
            return messages;
        }
    }
}
```

Namespaces

Name	Description
PdfCombiner (↗ see page 1)	This is namespace PdfCombiner.

1.2.4 FrmMain.cs

This is file FrmMain.cs.

Body Source

```
?using iTextSharp.text;
using PdfSharp.Pdf;
using PdfSharp.Pdf.IO;
using System;
using System.Collections.Generic;
using System.Drawing;
using System.IO;
using System.Linq;
using System.Reflection;
using System.Resources;
using System.Windows.Forms;

namespace PdfCombiner
```

```
{
    public partial class FrmMain : Form
    {
        public static ResourceManager resource;

        public FrmMain()
        {
            InitializeComponent();
        }

        #region Form Init, Language Settings and Finalize Methods

        /// <summary>
        /// This function is used to terminate application
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void FrmMain_FormClosed(object sender, FormClosedEventArgs e)
        {
            MessageBox.Show(resource.GetString("ThanksMessage"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
            Application.Exit();
        }

        /// <summary>
        /// This function is used to assign menu to listbox
        /// When form is shown
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void FrmMain_Shown(object sender, EventArgs e)
        {
            lbFiles.ContextMenuStrip = menuStrip;
            cmbLanguage.DropDownStyle = ComboBoxStyle.DropDownList;
            resource = new ResourceManager("PdfCombiner.Resources.AppResources-tr", Assembly.GetExecutingAssembly());
            FormMembersNameInitialization();
        }

        /// <summary>
        /// This function is used to set the resource file
        /// And with this, you can see form elements, info messages etc. with the selected
        /// resource file contents. That is used to multi language support
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void cmbLanguage_SelectedIndexChanged(object sender, EventArgs e)
        {
            if (cmbLanguage.SelectedIndex != -1)
            {
                try
                {
                    resource = new ResourceManager("PdfCombiner.Resources.AppResources-" + cmbLanguage.SelectedItem.ToString().ToLower(), Assembly.GetExecutingAssembly());
                    FormMembersNameInitialization();
                }
                catch (Exception)
                {
                    resource = new ResourceManager("PdfCombiner.Resources.AppResources-en", Assembly.GetExecutingAssembly());
                    FormMembersNameInitialization();
                }

            }
        }

        /// <summary>
        /// This method is used to change text of form members by the
        /// Resource file which is selected
        /// </summary>
        private void FormMembersNameInitialization()
        {
            ActiveForm.Text = resource.GetString("AppTitle");
            btnAddFile.Text = resource.GetString("AddFile");
            btnAddFolder.Text = resource.GetString("AddFolder");
            btnClearList.Text = resource.GetString("ClearFileList");
            btnCombineITextSharp.Text = resource.GetString("CombineFilesITextSharp");
            btnCombinePdfSharp.Text = resource.GetString("CombineFilesPdfSharp");
            menuItemDelete.Text = resource.GetString("Delete");
            menuItemOrderByPathAscending.Text = resource.GetString("OrderByPathAscending");
            menuItemOrderByPathDescending.Text = resource.GetString("OrderByPathDescending");
            menuItemOrderByNameAscending.Text = resource.GetString("OrderByNameAscending");
            menuItemOrderByNameDescending.Text = resource.GetString("OrderByNameDescending");
            cmbLanguage.Text = resource.GetString("SelectLanguage");
        }

        #endregion

        #region Add Item Methods

        /// <summary>
        /// It is used to add single or multiple PDF files to combine
        /// When you choose file or files
        /// The listbox in the form will be filled with the name of the files
        /// Which you choose to combine
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void btnAddFile_Click(object sender, EventArgs e)
        {
            using (var dialogAddFile = new OpenFileDialog())
            {
                InitializeFileDialog(dialogAddFile);
                var result = dialogAddFile.ShowDialog();
                var addedFileCount = 0;
                if (result == DialogResult.OK && dialogAddFile.FileNames != null)
                {
                    foreach (var file in dialogAddFile.FileNames)
                    {
                        if (!lbFiles.Items.Contains(file))
                        {
                            lbFiles.Items.Add(file);
                            addedFileCount++;
                        }
                    }
                    MessageBox.Show(addedFileCount + resource.GetString("FileAddMessage"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
                }
            }
        }

        /// <summary>
        /// This function is used to set options of file dialog like
        /// Filter, start path etc.
        /// </summary>
        /// <param name="dialogAddFile">File Dialog</param>
        private static void InitializeFileDialog(OpenFileDialog dialogAddFile)
        {
            dialogAddFile.Multiselect = true;
            dialogAddFile.Filter = resource.GetString("PdfFiles") + " (*.pdf)|*.pdf";
            dialogAddFile.InitialDirectory = Application.StartupPath;
            dialogAddFile.Title = resource.GetString("SelectPdfFile");
            dialogAddFile.DefaultExt = "PDF";
        }

        /// <summary>
        /// This function is used to add PDF files in a folder which you choose in
        /// Folder Dialog recursively
        /// When you use it the added files will be seen in listbox
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void btnAddFolder_Click(object sender, EventArgs e)
        {
            using (var dialogAddFolder = new FolderBrowserDialog())
            {
                var result = dialogAddFolder.ShowDialog();
                if (result == DialogResult.OK && !string.IsNullOrEmpty(dialogAddFolder.SelectedPath))
                {
                    var fileNames = Directory.GetFiles(dialogAddFolder.SelectedPath, "*.pdf", SearchOption.AllDirectories);
                    var addedFileCount = 0;
                    foreach (var file in fileNames)
                    {
                        if (!lbFiles.Items.Contains(file))
                        {
                            lbFiles.Items.Add(file);
                            addedFileCount++;
                        }
                    }
                    MessageBox.Show(addedFileCount + resource.GetString("FileAddMessage"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
                }
            }
        }

        #endregion

        #region Combine PDF Methods

        /// <summary>
        /// This function is used to take list of PDF files in listbox,
        /// Combine them with a single file in location which you choose in folder dialog
        /// And you can see the progress in progress bar
        /// It uses PdfSharp Nuget Package
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void btnCombinePdfSharp_Click(object sender, EventArgs e)
        {
            try
            {
                if (lbFiles.Items.Count < 2)
                    MessageBox.Show(resource.GetString("CombineWarning"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
                else
                {
                    using (var dialogExport = new FolderBrowserDialog())
                    {
                        var result = dialogExport.ShowDialog();
                        if (result == DialogResult.OK && !string.IsNullOrEmpty(dialogExport.SelectedPath))
                        {
                            var outputFileName = dialogExport.SelectedPath + "/" + Guid.NewGuid() + ".pdf";
                            using (var outputFile = new PdfDocument())
                            {
                                outputFile.Options.CompressContentStreams = true;
                                outputFile.Options.EnableCcittCompressionForBilevelImages = true;
                                outputFile.Options.FlateEncodeMode = PdfFlateEncodeMode.BestCompression;
                                var fileCount = lbFiles.Items.Count;
                                var combinedFiles = 0;

                                for (int i = 0; i < lbFiles.Items.Count; i++)
                                {
                                    try
                                    {
                                        var inputDocument = PdfReader.Open(lbFiles.Items[i].ToString(), PdfDocumentOpenMode.Import);
                                        var count = inputDocument.PageCount;
                                        for (int idx = 0; idx < count; idx++)
                                        {
                                            var page = inputDocument.Pages[idx];
                                            outputFile.AddPage(page);
                                        }
                                        inputDocument.Close();
                                        combinedFiles++;
                                    }
                                    catch (Exception)
                                    {
                                        fileCount--;
                                    }

                                    pbFiles.Value = (combinedFiles * 100 / fileCount);
                                    if (pbFiles.Value > pbFiles.Maximum)
                                        pbFiles.Value = pbFiles.Maximum;
                                    ActiveForm.Text = "%" + pbFiles.Value;
                                }
                                outputFile.Save(outputFileName);
                                outputFile.Close();

                                MessageBox.Show(fileCount + resource.GetString("CombineFileMessage") + outputFileName, resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
                            }

                            pbFiles.Value = pbFiles.Minimum;
                            ActiveForm.Text = resource.GetString("AppTitle");
                        }
                    }
                }
            }
            catch (Exception ex)
            {
                MessageBox.Show(resource.GetString("CombineErrorMessage") + ex.GetAllMessages(), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
                pbFiles.Value = pbFiles.Minimum;
                ActiveForm.Text = resource.GetString("AppTitle");
            }
        }

        /// <summary>
        /// This function is used to take list of PDF files in listbox,
        /// Combine them with a single file in location which you choose in folder dialog
        /// And you can see the progress in progress bar
        /// It uses iTextSharp Nuget Package
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void btnCombineITextSharp_Click(object sender, EventArgs e)
        {
            try
            {
                if (lbFiles.Items.Count < 2)
                    MessageBox.Show(resource.GetString("CombineWarning"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
                else
                {
                    using (var dialogExport = new FolderBrowserDialog())
                    {
                        var result = dialogExport.ShowDialog();
                        if (result == DialogResult.OK && !string.IsNullOrEmpty(dialogExport.SelectedPath))
                        {
                            var outputFileName = dialogExport.SelectedPath + "/" + Guid.NewGuid() + ".pdf";
                            var fileCount = lbFiles.Items.Count;
                            var combinedFiles = 0;

                            var outputFile = new Document();
                            using (FileStream outputFileStream = new FileStream(outputFileName, FileMode.Create))
                            {
                                using (var pdfWriter = new iTextSharp.text.pdf.PdfCopy(outputFile, outputFileStream))
                                {
                                    if (pdfWriter == null)
                                    {
                                        return;
                                    }
                                    pdfWriter.SetFullCompression();
                                    outputFile.Open();
                                    for (int i = 0; i < lbFiles.Items.Count; i++)
                                    {
                                        try
                                        {
                                            var pdfReader = new iTextSharp.text.pdf.PdfReader(lbFiles.Items[i].ToString());
                                            pdfReader.ConsolidateNamedDestinations();
                                            for (int j = 1; j <= pdfReader.NumberOfPages; j++)
                                            {
                                                var page = pdfWriter.GetImportedPage(pdfReader, j);
                                                pdfWriter.AddPage(page);
                                            }
                                            pdfReader.Close();
                                            combinedFiles++;
                                        }
                                        catch (Exception)
                                        {
                                            fileCount--;
                                        }

                                        pbFiles.Value = (combinedFiles * 100 / fileCount);
                                        if (pbFiles.Value > pbFiles.Maximum)
                                            pbFiles.Value = pbFiles.Maximum;
                                        ActiveForm.Text = "%" + pbFiles.Value;
                                    }
                                    pdfWriter.Close();
                                }
                                outputFile.Close();
                            }

                            MessageBox.Show(fileCount + resource.GetString("CombineFileMessage") + outputFileName, resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);

                            pbFiles.Value = pbFiles.Minimum;
                            ActiveForm.Text = resource.GetString("AppTitle");
                        }
                    }
                }
            }
            catch (Exception ex)
            {
                MessageBox.Show(resource.GetString("CombineErrorMessage") + ex.GetAllMessages(), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
                pbFiles.Value = pbFiles.Minimum;
                ActiveForm.Text = resource.GetString("AppTitle");
            }
        }

        #endregion

        #region Delete Item Methods

        /// <summary>
        /// This function is used to delete files in listbox which are chosen
        /// If you press the Delete button in your keyboard
        /// The selected files will be deleted from the list
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void lbFiles_KeyDown(object sender, KeyEventArgs e)
        {
            if (e.KeyValue == Keys.Delete.GetHashCode())
                DeleteFilesFromListBox();
        }

        /// <summary>
        /// This is used to delete selected items in listbox
        /// When menu item Delete is clicked and opened dialog
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void menuItemDelete_Click(object sender, EventArgs e)
        {
            if (lbFiles.Items.Count > 0)
            {
                if (lbFiles.SelectedItems.Count > 0)
                {
                    var deleteDialog = new DialogResult();
                    deleteDialog = MessageBox.Show(resource.GetString("DeleteWarning1") + lbFiles.SelectedItems.Count + resource.GetString("DeleteWarning2"), resource.GetString("AppTitle"), MessageBoxButtons.YesNo, MessageBoxIcon.Warning);
                    if (deleteDialog == DialogResult.Yes)
                        DeleteFilesFromListBox();
                }
                else
                    MessageBox.Show(resource.GetString("NoSelectedFile"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
            else
                MessageBox.Show(resource.GetString("NoFile"), resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        }

        /// <summary>
        /// This method is used to Delete selected files from ListBox
        /// This is used different ways in this app
        /// So we created this as a method
        /// </summary>
        private void DeleteFilesFromListBox()
        {
            var allItems = new List<string>();
            var removedItems = new List<string>();
            var fileCount = lbFiles.SelectedItems.Count;
            for (int i = 0; i < lbFiles.SelectedItems.Count; i++)
            {
                removedItems.Add(lbFiles.SelectedItems[i].ToString());
            }
            foreach (var item in lbFiles.Items)
            {
                if (!removedItems.Any(j => j == item.ToString()))
                    allItems.Add(item.ToString());
            }
            lbFiles.Items.Clear();
            foreach (var item in allItems)
            {
                lbFiles.Items.Add(item);
            }
            MessageBox.Show(fileCount + resource.GetString("DeleteFileMessage"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
        }

        /// <summary>
        /// This function is used to clear the file list in listbox
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void btnClearList_Click(object sender, EventArgs e)
        {
            var fileCount = lbFiles.Items.Count;
            lbFiles.Items.Clear();
            MessageBox.Show(fileCount + resource.GetString("DeleteFileMessage"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Information);
        }

        #endregion

        #region Order Item Methods

        /// <summary>
        /// This method is used to order elements in listbox ascending by full path
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void menuItemOrderByPathAscending_Click(object sender, EventArgs e)
        {
            if (lbFiles.Items.Count > 0)
                lbFiles = SortItemsByPath(lbFiles, true);
            else
                MessageBox.Show(resource.GetString("NoFile"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        }

        /// <summary>
        /// This method is used to order elements in listbox descending by full path
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void menuItemOrderByPathDescending_Click(object sender, EventArgs e)
        {
            if (lbFiles.Items.Count > 0)
                lbFiles = SortItemsByPath(lbFiles, false);
            else
                MessageBox.Show(resource.GetString("NoFile"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        }

        /// <summary>
        /// This method is used to order elements in listbox ascending by file name
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void menuItemOrderByNameAscending_Click(object sender, EventArgs e)
        {
            if (lbFiles.Items.Count > 0)
                lbFiles = SortItemsByName(lbFiles, true);
            else
                MessageBox.Show(resource.GetString("NoFile"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        }

        /// <summary>
        /// This method is used to order elements in listbox descending by file name
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void menuItemOrderByNameDescending_Click(object sender, EventArgs e)
        {
            if (lbFiles.Items.Count > 0)
                lbFiles = SortItemsByName(lbFiles, false);
            else
                MessageBox.Show(resource.GetString("NoFile"),
resource.GetString("AppTitle"), MessageBoxButtons.OK, MessageBoxIcon.Error);
        }

        /// <summary>
        /// This method is used to order items by full path in listbox
        /// And return them with the given order as parametre
        /// </summary>
        /// <param name="listBox">ListBox Info</param>
        /// <param name="ascending">Order Type is Ascending Or Not</param>
        private static ListBox SortItemsByPath(ListBox listBox, bool ascending)
        {
            List<object> items;
            items = listBox.Items.OfType<object>().ToList();
            listBox.Items.Clear();
            if (ascending)
                listBox.Items.AddRange(items.OrderBy(i => i).ToArray());
            else
                listBox.Items.AddRange(items.OrderByDescending(i => i).ToArray());
            return listBox;
        }

        /// <summary>
        /// This method is used to order items by file name in listbox
        /// And return them with the given order as parametre
        /// </summary>
        /// <param name="listBox">ListBox Info</param>
        /// <param name="ascending">Order Type is Ascending Or Not</param>
        private static ListBox SortItemsByName(ListBox listBox, bool ascending)
        {
            var fileNameList = new List<string>();
            List<object> items;
            items = listBox.Items.OfType<object>().ToList();
            const char c = '\u005c';
            foreach (var item in items)
            {
                var fullPath = item.ToString();
                var list = fullPath.Split(c).ToList();
                if (list.Count > 0)
                    fileNameList.Add(list[list.Count - 1]);
            }

            if (ascending)
                fileNameList = fileNameList.OrderBy(j => j).ToList();
            else
                fileNameList = fileNameList.OrderByDescending(j => j).ToList();

            listBox.Items.Clear();
            foreach (var item in fileNameList)
                listBox.Items.Add(items.First(j => j.ToString().EndsWith(item)));
            return listBox;
        }

        #endregion

        #region Item Drag and Drop Methods

        /// <summary>
        /// This is used to control mouse actions and if that is not right click
        /// Start to drag and drop item in listbox
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void lbFiles_MouseDown(object sender, MouseEventArgs e)
        {
            if (!e.Button.Equals(MouseButtons.Right))
            {
                if (lbFiles.SelectedItem == null) return;
                lbFiles.DoDragDrop(lbFiles.SelectedItem, DragDropEffects.Move);
            }
        }

        /// <summary>
        /// This is used to give effect while dragging and dropping an item in listbox
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>
        private void lbFiles_DragOver(object sender, DragEventArgs e)
        {
            e.Effect = DragDropEffects.Move;
        }

        /// <summary>
        /// This is used to drag and drop an item in listbox
        /// Which is used to order books and combine them with that order
        /// </summary>
        /// <param name="sender">The sender info (For example Main Form)</param>
        /// <param name="e">Event Arguments</param>m>
        private void lbFiles_DragDrop(object sender, DragEventArgs e)
        {
            var point = lbFiles.PointToClient(new Point(e.X, e.Y));
            var index = this.lbFiles.IndexFromPoint(point);
            if (index < 0) index = this.lbFiles.Items.Count - 1;
            // type of string because file names stored in string in listbox
            var data = e.Data.GetData(typeof(string));
            this.lbFiles.Items.Remove(data);
            this.lbFiles.Items.Insert(index, data);
        }

        #endregion
    }
}
```

Namespaces

Name	Description
PdfCombiner (⧉ see page 1)	This is namespace PdfCombiner.

1.2.5 FrmMain.Designer.cs

This is file FrmMain.Designer.cs.

Body Source

```
?namespace PdfCombiner
{
    partial class FrmMain
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
        {
            this.components = new System.ComponentModel.Container();
            System.ComponentModel.ComponentResourceManager resources = new System.ComponentModel.ComponentResourceManager(typeof(FrmMain));
            this.btnCombinePdfSharp = new System.Windows.Forms.Button();
            this.btnAddFolder = new System.Windows.Forms.Button();
            this.btnAddFile = new System.Windows.Forms.Button();
            this.btnClearList = new System.Windows.Forms.Button();
            this.lbFiles = new System.Windows.Forms.ListBox();
            this.lblDetails = new System.Windows.Forms.Label();
            this.pbFiles = new System.Windows.Forms.ProgressBar();
            this.btnCombineITextSharp = new System.Windows.Forms.Button();
            this.menuStrip = new System.Windows.Forms.ContextMenuStrip(this.components);
            this.menuItemDelete = new System.Windows.Forms.ToolStripMenuItem();
            this.menuItemOrderByPathAscending = new System.Windows.Forms.ToolStripMenuItem();
            this.menuItemOrderByPathDescending = new System.Windows.Forms.ToolStripMenuItem();
            this.menuItemOrderByNameAscending = new System.Windows.Forms.ToolStripMenuItem();
            this.menuItemOrderByNameDescending = new System.Windows.Forms.ToolStripMenuItem();
            this.cmbLanguage = new System.Windows.Forms.ComboBox();
            this.menuStrip.SuspendLayout();
            this.SuspendLayout();
            //
            // btnCombinePdfSharp
            //
            this.btnCombinePdfSharp.Image = ((System.Drawing.Image)(resources.GetObject("btnCombinePdfSharp.Image")));
            this.btnCombinePdfSharp.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
            this.btnCombinePdfSharp.Location = new System.Drawing.Point(442, 5);
            this.btnCombinePdfSharp.Name = "btnCombinePdfSharp";
            this.btnCombinePdfSharp.Size = new System.Drawing.Size(214, 37);
            this.btnCombinePdfSharp.TabIndex = 0;
            this.btnCombinePdfSharp.Text = "Combine Files (PdfSharp)";
            this.btnCombinePdfSharp.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
            this.btnCombinePdfSharp.UseVisualStyleBackColor = true;
            this.btnCombinePdfSharp.Click += new System.EventHandler(this.btnCombinePdfSharp_Click);
            //
            // btnAddFolder
            //
            this.btnAddFolder.Image = ((System.Drawing.Image)(resources.GetObject("btnAddFolder.Image")));
            this.btnAddFolder.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
            this.btnAddFolder.Location = new System.Drawing.Point(197, 5);
            this.btnAddFolder.Name = "btnAddFolder";
            this.btnAddFolder.Size = new System.Drawing.Size(171, 37);
            this.btnAddFolder.TabIndex = 2;
            this.btnAddFolder.Text = "Add Folder";
            this.btnAddFolder.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
            this.btnAddFolder.UseVisualStyleBackColor = true;
            this.btnAddFolder.Click += new System.EventHandler(this.btnAddFolder_Click);
            //
            // btnAddFile
            //
            this.btnAddFile.Image = ((System.Drawing.Image)(resources.GetObject("btnAddFile.Image")));
            this.btnAddFile.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
            this.btnAddFile.Location = new System.Drawing.Point(12, 5);
            this.btnAddFile.Name = "btnAddFile";
            this.btnAddFile.Size = new System.Drawing.Size(179, 37);
            this.btnAddFile.TabIndex = 3;
            this.btnAddFile.Text = "Add Files";
            this.btnAddFile.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
            this.btnAddFile.UseVisualStyleBackColor = true;
            this.btnAddFile.Click += new System.EventHandler(this.btnAddFile_Click);
            //
            // btnClearList
            //
            this.btnClearList.Image = ((System.Drawing.Image)(resources.GetObject("btnClearList.Image")));
            this.btnClearList.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
            this.btnClearList.Location = new System.Drawing.Point(12, 45);
            this.btnClearList.Name = "btnClearList";
            this.btnClearList.Size = new System.Drawing.Size(179, 37);
            this.btnClearList.TabIndex = 4;
            this.btnClearList.Text = "Clear File List";
            this.btnClearList.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
            this.btnClearList.UseVisualStyleBackColor = true;
            this.btnClearList.Click += new System.EventHandler(this.btnClearList_Click);
            //
            // lbFiles
            //
            this.lbFiles.AllowDrop = true;
            this.lbFiles.FormattingEnabled = true;
            this.lbFiles.Location = new System.Drawing.Point(12, 88);
            this.lbFiles.Name = "lbFiles";
            this.lbFiles.SelectionMode = System.Windows.Forms.SelectionMode.MultiExtended;
            this.lbFiles.Size = new System.Drawing.Size(644, 186);
            this.lbFiles.TabIndex = 5;
            this.lbFiles.DragDrop += new System.Windows.Forms.DragEventHandler(this.lbFiles_DragDrop);
            this.lbFiles.DragOver += new System.Windows.Forms.DragEventHandler(this.lbFiles_DragOver);
            this.lbFiles.KeyDown += new System.Windows.Forms.KeyEventHandler(this.lbFiles_KeyDown);
            this.lbFiles.MouseDown += new
```

```
System.Windows.Forms.MouseEventHandler(this.lbFiles_MouseDown);
            //
            // lblDetails
            //
            this.lblDetails.AutoSize = true;
            this.lblDetails.Location = new System.Drawing.Point(12, 65);
            this.lblDetails.Name = "lblDetails";
            this.lblDetails.Size = new System.Drawing.Size(0, 13);
            this.lblDetails.TabIndex = 6;
            //
            // pbFiles
            //
            this.pbFiles.Location = new System.Drawing.Point(197, 45);
            this.pbFiles.Name = "pbFiles";
            this.pbFiles.Size = new System.Drawing.Size(239, 37);
            this.pbFiles.TabIndex = 7;
            //
            // btnCombineITextSharp
            //
            this.btnCombineITextSharp.Image = ((System.Drawing.Image)
(resources.GetObject("btnCombineITextSharp.Image")));
            this.btnCombineITextSharp.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
            this.btnCombineITextSharp.Location = new System.Drawing.Point(442, 45);
            this.btnCombineITextSharp.Name = "btnCombineITextSharp";
            this.btnCombineITextSharp.Size = new System.Drawing.Size(214, 37);
            this.btnCombineITextSharp.TabIndex = 9;
            this.btnCombineITextSharp.Text = "Combine Files (iTextSharp)";
            this.btnCombineITextSharp.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
            this.btnCombineITextSharp.UseVisualStyleBackColor = true;
            this.btnCombineITextSharp.Click += new
System.EventHandler(this.btnCombineITextSharp_Click);
            //
            // menuStrip
            //
            this.menuStrip.Items.AddRange(new System.Windows.Forms.ToolStripItem[]
{this.menuItemDelete, this.menuItemOrderByPathAscending,
this.menuItemOrderByPathDescending, this.menuItemOrderByNameAscending,
this.menuItemOrderByNameDescending});
            this.menuStrip.Name = "menuStrip";
            this.menuStrip.Size = new System.Drawing.Size(229, 114);
            //
            // menuItemDelete
            //
            this.menuItemDelete.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemDelete.Image")));
            this.menuItemDelete.Name = "menuItemDelete";
            this.menuItemDelete.Size = new System.Drawing.Size(228, 22);
            this.menuItemDelete.Text = "Delete";
            this.menuItemDelete.Click += new
System.EventHandler(this.menuItemDelete_Click);
            //
            // menuItemOrderByPathAscending
            //
            this.menuItemOrderByPathAscending.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemOrderByPathAscending.Image")));
            this.menuItemOrderByPathAscending.Name = "menuItemOrderByPathAscending";
            this.menuItemOrderByPathAscending.Size = new System.Drawing.Size(228, 22);
            this.menuItemOrderByPathAscending.Text = "Order By Path (Ascending)";
            this.menuItemOrderByPathAscending.Click += new
System.EventHandler(this.menuItemOrderByPathAscending_Click);
            //
            // menuItemOrderByPathDescending
            //
            this.menuItemOrderByPathDescending.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemOrderByPathDescending.Image")));
            this.menuItemOrderByPathDescending.Name = "menuItemOrderByPathDescending";
            this.menuItemOrderByPathDescending.Size = new System.Drawing.Size(228, 22);
            this.menuItemOrderByPathDescending.Text = "Order By Path (Descending)";
            this.menuItemOrderByPathDescending.Click += new
System.EventHandler(this.menuItemOrderByPathDescending_Click);
            //
            // menuItemOrderByNameAscending
            //
            this.menuItemOrderByNameAscending.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemOrderByNameAscending.Image")));
            this.menuItemOrderByNameAscending.Name = "menuItemOrderByNameAscending";
            this.menuItemOrderByNameAscending.Size = new System.Drawing.Size(228, 22);
            this.menuItemOrderByNameAscending.Text = "Order By Name (Ascending)";
            this.menuItemOrderByNameAscending.Click += new
System.EventHandler(this.menuItemOrderByNameAscending_Click);
            //
            // menuItemOrderByNameDescending
            //
            this.menuItemOrderByNameDescending.Image = ((System.Drawing.Image)
(resources.GetObject("menuItemOrderByNameDescending.Image")));
            this.menuItemOrderByNameDescending.Name = "menuItemOrderByNameDescending";
            this.menuItemOrderByNameDescending.Size = new System.Drawing.Size(228, 22);
            this.menuItemOrderByNameDescending.Text = "Order By Name (Descending)";
            this.menuItemOrderByNameDescending.Click += new
System.EventHandler(this.menuItemOrderByNameDescending_Click);
            //
            // cmbLanguage
            //
            this.cmbLanguage.Anchor = System.Windows.Forms.AnchorStyles.None;
            this.cmbLanguage.FormattingEnabled = true;
            this.cmbLanguage.Items.AddRange(new object[] {"TR", "EN", "DE", "FR",
"RU", "ES"});
            this.cmbLanguage.Location = new System.Drawing.Point(374, 12);
            this.cmbLanguage.Name = "cmbLanguage";
            this.cmbLanguage.Size = new System.Drawing.Size(62, 21);
            this.cmbLanguage.TabIndex = 10;
            this.cmbLanguage.Text = "Select Language";
            this.cmbLanguage.SelectedIndexChanged += new
System.EventHandler(this.cmbLanguage_SelectedIndexChanged);
            //
            // FrmMain
            //
            this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
            this.ClientSize = new System.Drawing.Size(668, 287);
            this.Controls.Add(this.cmbLanguage);
            this.Controls.Add(this.btnCombineITextSharp);
            this.Controls.Add(this.pbFiles);
            this.Controls.Add(this.lblDetails);
            this.Controls.Add(this.lbFiles);
            this.Controls.Add(this.btnClearList);
            this.Controls.Add(this.btnAddFile);
            this.Controls.Add(this.btnAddFolder);
            this.Controls.Add(this.btnCombinePdfSharp);
            this.Name = "FrmMain";
            this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
            this.Text = "PDF Combiner";
            this.FormClosed += new
System.Windows.Forms.FormClosedEventHandler(this.FrmMain_FormClosed);
            this.Shown += new System.EventHandler(this.FrmMain_Shown);
            this.menuStrip.ResumeLayout(false);
            this.ResumeLayout(false);
            this.PerformLayout();
        }

        public System.Windows.Forms.ComboBox cmbLanguage;

        #endregion

        private System.Windows.Forms.Button btnCombinePdfSharp;
        private System.Windows.Forms.Button btnAddFolder;
        private System.Windows.Forms.Button btnAddFile;
        private System.Windows.Forms.Button btnClearList;
        private System.Windows.Forms.ListBox lbFiles;
        private System.Windows.Forms.Label lblDetails;
        private System.Windows.Forms.ProgressBar pbFiles;
        private System.Windows.Forms.Button btnCombineITextSharp;
        private System.Windows.Forms.ContextMenuStrip menuStrip;
        private System.Windows.Forms.ToolStripMenuItem menuItemDelete;
        private System.Windows.Forms.ToolStripMenuItem menuItemOrderByPathAscending;
        private System.Windows.Forms.ToolStripMenuItem menuItemOrderByPathDescending;
        private System.Windows.Forms.ToolStripMenuItem menuItemOrderByNameAscending;
        private System.Windows.Forms.ToolStripMenuItem menuItemOrderByNameDescending;
    }
}

```

Namespaces

Name	Description
PdfCombiner (⧉ see page 1)	This is namespace PdfCombiner.

1.2.6 PdfCombiner.csproj

This is file PdfCombiner.csproj.

1.2.7 PdfCombiner.sln

This is file PdfCombiner.sln.

1.2.8 Program.cs

This is file Program.cs.

Body Source

```
?using System;
using System.Collections.Generic;
using System.Linq;
using System.Windows.Forms;

namespace PdfCombiner
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new FrmMain());
        }
    }
}
```

Namespaces

Name	Description
PdfCombiner (see page 1)	This is namespace PdfCombiner.

1.2.9 Resources.Designer.cs

This code was generated by a tool. Runtime Version:4.0.30319.42000

Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.

Body Source

```
?//------------------------------------------------------------------------------
// <auto-generated>
//     This code was generated by a tool.
//     Runtime Version:4.0.30319.42000
//
//     Changes to this file may cause incorrect behavior and will be lost if
//     the code is regenerated.
// </auto-generated>
//------------------------------------------------------------------------------

namespace PdfCombiner.Properties {
    using System;


    /// <summary>
    ///   A strongly-typed resource class, for looking up localized strings, etc.
    /// </summary>
    // This class was auto-generated by the StronglyTypedResourceBuilder
    // class via a tool like ResGen or Visual Studio.
    // To add or remove a member, edit your .ResX file then rerun ResGen
    // with the /str option, or rebuild your VS project.
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Resources.Tools.StronglyTypedResourceBuilder", "15.0.0.0")]
    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
    internal class Resources {

        private static global::System.Resources.ResourceManager resourceMan;

        private static global::System.Globalization.CultureInfo resourceCulture;

        [global::System.Diagnostics.CodeAnalysis.SuppressMessageAttribute("Microsoft.Performance", "CA1811:AvoidUncalledPrivateCode")]
        internal Resources() {
        }

        /// <summary>
        ///   Returns the cached ResourceManager instance used by this class.
        /// </summary>
        [global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.EditorBrowsableState.Advanced)]
        internal static global::System.Resources.ResourceManager ResourceManager {
            get {
                if (object.ReferenceEquals(resourceMan, null)) {
                    global::System.Resources.ResourceManager temp = new global::System.Resources.ResourceManager("PdfCombiner.Properties.Resources", typeof(Resources).Assembly);
                    resourceMan = temp;
                }
                return resourceMan;
            }
        }
        
        /// <summary>
        ///   Overrides the current thread's CurrentUICulture property for all
        ///   resource lookups using this strongly typed resource class.
        /// </summary>
[global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.EditorBrowsableState.Advanced)]
        internal static global::System.Globalization.CultureInfo Culture {
            get {
                return resourceCulture;
            }
            set {
                resourceCulture = value;
            }
        }
        
        /// <summary>
        ///   Looks up a localized string similar to PDF Birlestirici.
        /// </summary>
        internal static string AppTitle {
            get {
                return ResourceManager.GetString("AppTitle", resourceCulture);
            }
        }
    }
}
```

Namespaces

Name	Description
PdfCombiner (see page 1)	This is namespace PdfCombiner.

1.2.10 Settings.Designer.cs

This code was generated by a tool. Runtime Version:4.0.30319.42000

Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.

Body Source

```
?//------------------------------------------------------------------------------
// <auto-generated>
//     This code was generated by a tool.
//     Runtime Version:4.0.30319.42000
//
//     Changes to this file may cause incorrect behavior and will be lost if
//     the code is regenerated.
// </auto-generated>
//------------------------------------------------------------------------------

namespace PdfCombiner.Properties
{
    
    [global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.VisualStudio.Editors.SettingsDesigner.SettingsSingleFileGenerator", "11.0.0.0")]
    internal sealed partial class Settings :
```

```
global::System.Configuration.ApplicationSettingsBase
    {

        private static Settings defaultInstance =
((Settings)(global::System.Configuration.ApplicationSettingsBase.Synchronized(new
Settings())));
    }
}
```

Namespaces

Name	Description
PdfCombiner (↗ see page 1)	This is namespace PdfCombiner.

Index