



HNDIT1012 Visual Application Programming



Week 9



FileDialog Class

Displays a dialog box from which the user can select a file. Some properties of FileDialog are:

[CheckFileExists](#)

Gets or sets a value indicating whether the dialog box displays a warning if the user specifies a file name that does not exist.

[CheckPathExists](#)

Gets or sets a value indicating whether the dialog box displays a warning if the user specifies a path that does not exist.

[FileName](#)

Gets or sets a string containing the file name selected in the file dialog box.

[FileNames](#)

Gets the file names of all selected files in the dialog box.

[Filter](#)

Gets or sets the current file name filter string, which determines the choices that appear in the "Save as file type" or "Files of type" box in the dialog box.

[FilterIndex](#)

Gets or sets the index of the filter currently selected in the file dialog box.

[InitialDirectory](#)

Gets or sets the initial directory displayed by the file dialog box.



System.IO.File Class

Provides static methods for the
creation,
copying,
deletion,
moving, and
opening of a single file



Some Methods of File Class

- **ReadAllText(fileName)** - Opens a text file, reads all the text in the file, and then closes the file.
- **ReadAllLines(fileName)** - Opens a text file, reads all lines of the file, and then closes the file.
- **ReadAllBytes(fileName)** - Opens a binary file, reads the contents of the file into a byte array, and then closes the file.
- **WriteAllText(fileName, textContent)** - Creates a new file, writes the specified string to the file, and then closes the file. If the target file already exists, it is overwritten.

Example- Design a form as shown below

The image shows a web form within a browser window titled "Week9". The form has a light gray background and a blue border. At the top left, there is a label "File" followed by a white text input field. To the right of the input field is a button labeled "Brows". Below these elements is a large, empty white rectangular area, likely for a file preview or a large text input. At the bottom left of the form is a button labeled "Save".



Reading all contents of a text file

```
private void btnBrows_Click(object sender, EventArgs e)
{
    OpenFileDialog openFileDialog = new OpenFileDialog();
    openFileDialog.Filter = "txt files (*.txt)|*.txt|All files (*.*)|*.*";
    openFileDialog.FilterIndex = 0;
    openFileDialog.InitialDirectory = @"C:\asp c#"; // give your default directory

    // Reading all contents of a text file
    if (openFileDialog.ShowDialog() == DialogResult.OK)
    {
        txtFile.Text = openFileDialog.FileName;
        string readBuffer = System.IO.File.ReadAllText(openFileDialog.FileName);
        richTextBox1.Text=readBuffer;
    }
}
```



Reading a text file line by line

```
private void btnBrows_Click(object sender, EventArgs e)
{
    OpenFileDialog openFileDialog = new OpenFileDialog();
    openFileDialog.Filter = "txt files (*.txt)|*.txt|All files (*.*)|*.*";
    openFileDialog.FilterIndex = 0;
    openFileDialog.InitialDirectory = @"E:\asp c#"; // give your default directory

    // Reading a text file line by line

    if (openFileDialog.ShowDialog() == DialogResult.OK)
    {
        txtFile.Text = openFileDialog.FileName;
        string[] readBuffer = System.IO.File.ReadAllLines(openFileDialog.FileName);
        for (int i = 0; i < readBuffer.Length; i++)
            richTextBox1.Text = readBuffer[i] + "\n";
    }
}
```



Reading a file byte by byte

```
private void btnBrows_Click(object sender, EventArgs e)
{
    OpenFileDialog openFileDialog = new OpenFileDialog();
    openFileDialog.Filter = "txt files (*.txt)|*.txt|All files (*.*)|*.*";
    openFileDialog.FilterIndex = 0;
    openFileDialog.InitialDirectory = @"E:\asp c#";

    // Reading a file byte by byte

    if (openFileDialog.ShowDialog() == DialogResult.OK)
    {
        txtFile.Text = openFileDialog.FileName;
        byte[] readBuffer = System.IO.File.ReadAllBytes(openFileDialog.FileName);
        foreach (byte b in readBuffer)
            richTextBox1.Text += (char)b;
    }
}
```




Saving a text File

Type the following code to the save button click event.

```
private void btnSave_Click(object sender, EventArgs e)
{
    SaveFileDialog fileDialog = new SaveFileDialog();
    fileDialog.InitialDirectory = @"C:\Users\garig";
    fileDialog.Filter = "txt files (*.txt)|*.txt|All files (*.*)|*.*";
    //add default extension if the user omit extension
    fileDialog.AddExtension = true;
    fileDialog.DefaultExt = ".txt"; //default extension
    if (fileDialog.ShowDialog() == DialogResult.OK)
    {
        System.IO.File.WriteAllText(fileDialog.FileName, richTextBox1.Text);
    }
}
```



Thank You