

```
1  //-- *****
2  //-- CLASS:      ImportData
3  //-- AUTHOR:     Paul McKillop
4  //-- CREATED:    04 January 2019
5  //-- PURPOSE:    Retrieve data from text file returned as a DataTable
6  //-- *****
7
8  using System;
9  using System.Collections.Generic;
10 using System.Linq;
11 using System.Text;
12 using System.Threading.Tasks;
13 using System.IO;
14 using System.Text.RegularExpressions;
15 using System.Data;
16
17 namespace ProductPerformance
18 {
19     public class ImportData
20     {
21         public static DataTable GetTextFileData(string strFilePath)
22         {
23             StreamReader sr = new StreamReader(strFilePath);
24             // Read the first line only for column headers
25             // and use these to create the DataTable columns
26             string[] headers = sr.ReadLine().Split(',');
27             DataTable dt = new DataTable();
28
29             //- headers
30             foreach (string header in headers)
31             {
32                 dt.Columns.Add(header);
33             }
34
35             // Read the reaminging data into the DataTable
36             // to the EndOfStream
37             while (!sr.EndOfStream)
38             {
39                 // Regex with escape caharacters
40                 string[] rows = Regex.Split(sr.ReadLine(), "(?=(?:[^\"]|\\\"[^\"]*\")*(?![^\"]|\\\"[^\"]*\")*$)");
41                 DataRow dr = dt.NewRow();
42                 for (int i = 0; i < headers.Length; i++)
43                 {
44                     dr[i] = rows[i];
45                 }
46                 dt.Rows.Add(dr);
47             }
48
49             // return the DataTable from the method
50             return dt;
51         }
52     }
53 }
54
```