

```

1  //*****
2  //-- CLASS:      ImportData
3  //-- AUTHOR:     Paul McKillop
4  //-- CREATED:    17 January 2019
5  //-- PURPOSE:    Import text file data into the application
6  //*****
7
8  using System.Data;
9  using System.IO;
10 using System.Text.RegularExpressions;
11
12
13 namespace CarParts
14 {
15     public class ImportData
16     {
17         /// <summary>
18         /// GetTextFileData
19         /// Directive System.Data required
20         /// </summary>
21         /// <param name="strFilePath"></param>
22         /// <returns>DataTable</returns>
23         public static DataTable GetTextFileData(string strFilePath)
24         {
25             StreamReader sr = new StreamReader(strFilePath);
26             // Read the first line only for column headers
27             // and use these to create the DataTable columns
28             string[] headers = sr.ReadLine().Split(',');
29             DataTable dt = new DataTable();
30
31             //- headers
32             foreach (string header in headers)
33             {
34                 dt.Columns.Add(header);
35             }
36
37             // Read the reaminging data into the DataTable
38             // to the EndOfStream
39             while (!sr.EndOfStream)
40             {
41                 // Regex with escape caharacters
42                 string[] rows = Regex.Split(sr.ReadLine(), ",(?=(?:[^\"]*\"[^\"]*\")*(?![^\"]*))");
43                 DataRow dr = dt.NewRow();
44                 for (int i = 0; i < headers.Length; i++)
45                 {
46                     dr[i] = rows[i];
47                 }
48                 dt.Rows.Add(dr);
49             }
50
51             // return the DataTable from the method
52             return dt;
53         }
54     }
55 }

```