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//-- *****
//-- CLASS:      ImportData
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//-- CREATED:    04 January 2019
//-- PURPOSE:    Retrieve data from text file returned as a DataTable
//-- *****

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
using System.Text.RegularExpressions;
using System.Data;

namespace ProductPerformance
{
    public class ImportData
    {
        public static DataTable GetTextFileData(string strFilePath)
        {
            StreamReader sr = new StreamReader(strFilePath);
            // Read the first line only for column headers
            // and use these to create the DataTable columns
            string[] headers = sr.ReadLine().Split(',');
            DataTable dt = new DataTable();

            //- headers
            foreach (string header in headers)
            {
                dt.Columns.Add(header);
            }

            // Read the remaining data into the DataTable
            // to the EndOfStream
            while (!sr.EndOfStream)
            {
                // Regex with escape caharacters
                string[] rows = Regex.Split(sr.ReadLine(),
                    ", (?=(?:[^\"]*" + "\"[^\"]*" + "\")*[^\"]*$)");
                DataRow dr = dt.NewRow();
                for (int i = 0; i < headers.Length; i++)
                {
                    dr[i] = rows[i];
                }
                dt.Rows.Add(dr);
            }

            // return the DataTable from the method
            return dt;
        }
    }
}

```