

## A Console Program to Manage Team Assignments

As an introduction to the use of C#.NET you are to write a console program to function as follows:

- The program must be executable from a command prompt.
- The program must make use of two files. One file, in csv format, will store user names, email addresses, and team assignments. The second file, as a txt file, will store information output by the program when requested by the user.
- The first file must be a file produced in Excel and stored in csv format. The file staff.csv is provided with class information and the team assignments for this project. Teams are referenced by the three letters X, Y, Z. If a copy of this file is modified by the user, the format must be maintained so that the resulting file is still readable by Excel. The csv format is summarized as follows:

A comma delimited file is a database exported into a format where each record is a single line and each field in the record is indicated by a comma. Where necessary (e.g., if the field has a comma in it) the field will also be quoted. If you have Excel, use the import feature of Excel to import the file. Specify comma delimited format as the import format. Then export to whatever format you require for the data. You can also usually import this format directly into most any database program or spreadsheet program as well. This file type is often associated with Microsoft Excel as this is one of the standard ways to transfer data into and out of a spreadsheet.

You may use any text editor, such as Notepad, to view the file provided. If any correction is necessary to your data, let me know.

- The program must allow the user to **add**, **remove**, or **modify** a record from the data file and save back any changes by means of a **save** function.
- The program must also implement a **find** function that will prompt the user for one of the possible fields and display on the screen any matches found in the file.
- Additionally the program must implement a **list** function that will display and write to the output file all the information in the file, arranged with last names in alphabetical order, appropriately formatted for possible printing from Notepad.
- The program must also implement a **report** function that will write an appropriately formatted listing of teams to the output file for possible viewing and/or printing in Notepad.
- You should add any features you feel will add to the utility of the program. Use methods in the System.Console class to produce an attractive command-line interface for the user.
- While the program is running, in-memory storage of data can use a structure of your choosing. Arrays might be one possibility.