Test 15 — Model, View, Controller (Part 5)

C# Programming

This is a timed test. You have thirty minutes to complete the test, or as allowed by your instructor. When you finish the test, upload your `Program.cs` to Canvas. Do not publish your answer to your `git` repository.

Write an ASP.NET MVC application. Create a Person **model** with at least four properties, and a People **model** as a repository that will contain Person objects. Create a **controller** that has an action method that displays all Person objects in the repository. Create a **view** that displays your People. Create a controller that accepts a search parameter from the user and returns the people that match the search request. Use a LINQ query to execute the search. Also create the appropriate views that allow users to both enter the search parameter and view the results. Add an action method that will allow you to add a Person to your People repository and the required views (an HTML form to add a Person.) Your `Save()` method should display a page that shows the Person you added and offer you the option of adding another Person or returning to the People list.

Starting at this point, add persistence as follows: Add a "Save Data" button that will write your Person records to an external database file in CSV format. Add a "Load Data" button that will read the Person records from an external data file and reconstitute all your Person records. Your CSV file should be in the following format, assuming that you have a Person class with public properties of `Firstname`, `Lastname`, `Birthdate`, `Age`:

```
"John","Doe",1988-03-23,23
"Susan","Roe",2000-04-30,20
```

Your deliverables are as follows, preferably as a zip archive:

1. your model source folder (all classes),
2. your controller source folder (all classes),
3. your view source code (all .CSHTML files),
4. your startup.cs ad program.cs files, and
5. a screenshot of your running application.

Upload your deliverables to Canvas. Do not push them to Github.