

Homework Assignment

Please review the following scenario and accompanying instructions. Your final project should be packaged into a .zip file and submitted to Wonderlic by email (sd-hiring@wonderlic.com).

You will be assessed based on adherence to project requirements as well as coding style and elegance of final solution. Feel free to make use of any additional resources or coding frameworks at your disposal. If you are unsure of something, feel free to research it via any resource at your disposal.

You may take as much (or as little) time to complete this assignment as you desire. However, please have your final submission back to Wonderlic within 1 week of receipt of these instructions. Please let us know as soon as possible if this is not possible.

Scenario

You are a developer for a software development shop that has been contracted by a small company to provide a web-based employee directory. This application should allow users to search for employees by name, department, or phone extension. Clicking on an employee record in the results grid should display additional information about that employee including a small photograph.

Requirements:

- You must make use of the provided Visual Studio Solution and Projects
- You must make use of the provided back-end classes and structures
 - You can add methods, classes, etc, but don't change the signature of the stubbed out methods. You must make use of ALL stubbed out methods provided
- You must use the provided XML file which stores the existing Employee data
 - Please do not make any changes to this XML file

Desires:

This web application may be re-purposed for other clients of your software development shop down the road:

- Try and allow for the use of an alternate data source (i.e. SQL) with minimal code changes required
- Try and allow for the use of an alternate UI theme (colors and/or layout) with minimal (or no) code changes required

Extra Credit:

Proper use of any (or all) of the following technologies:

- Front-End
 - AJAX
 - Themed CSS
 - JQuery
 - JSON
 - .NET Custom Controls
- Back-End
 - XPath
 - Data Caching
- C# Language Features
 - Extension Methods
 - LINQ
- (Any other technologies that make the development easier or more maintainable, the code more performant, and/or the interface cleaner, easier to use, or more extensible)