

HW7 – Personal Database Driven Web Site

MSCI:3300 – Software Design & Development

Due **Tuesday, April 7, 2015**

Assignment:

This individual assignment is to use the video instructions made available in this class to build a small, database driven web site of your choice using the following criteria:

1. You must use Visual Studio Express 2013 for the Web, ASP.NET, and VB.
2. Must use Git and Github for version control. You should have multiple commits pushed to Github with useful messages and the developer identified. You should also push a tag to Github indicating the final released version of your software.
3. You cannot use the “States” example or the “Recipes” web site we have been using in class.
4. Must use Apollo SQL server for the database. There should be approx. 10 records in your database. Each record should contain 5 – 10 fields (at least one required field). Do not include Personally Identifiable Information for anyone in this database.
5. Must use at least one gridview and one detailsview formatted with CSS.
6. Must use at least one master/details view combination.
7. Must be able to INSERT, UPDATE, and DELETE records in the database from an administrator account. Use required field validators as appropriate. Please create the user mikec with a password of ‘pAssw0rd!!’ as an administrator for grading purposes. Required database fields should be obvious to the user and ASP validators used.
8. Must be able to view database data as the “unauthenticated user” including the ability to sort on multiple fields.
9. Web pages must be formatted using ASP Masterpages and external CSS.
10. Web site should include at least one image or graphic displayed using ASP image control.
11. Must use an ASP label and code behind to add “todays” date to your site.
12. Must use code behind to add functionality to your site after an item is inserted, updated, or deleted in your database.
13. Must create a search page to search your database on one or more fields and display the results in a gridview.
14. Must include an site menu using a list and ASP:hyperlink controls.
15. Must include an “About” and a “Contact” page, accessible to unauthenticated users. The contact form should include a field to collect the sender’s email address and the message body. When the form is submitted, it should send the email to michael-colbert@uiowa.edu. The about page should be populated with 2 paragraphs of Lor Ipsum data.
16. Upload you web site to Instruct HW7 folder. Your website will be graded from Instruct.

Completing the Homework

The videos are found in the Class Resources page in the Admin section of ICON. The videos that will be helpful to completing this assignment are:

- Using Git with Microsoft Visual Studio Express 2013 for the Web
- ASP.NET Role Based Security
- ASP.NET Masterpages
- ASP.NET Image and Hyperlink Controls
- ASP.NET Finishing Your Application
- ASP.NET & Microsoft Enterprise SQL Server 1
- ASP.NET & Microsoft Enterprise SQL Server 2
- ASP.NET & Microsoft Enterprise SQL Server 3
- ASP.NET & Microsoft Enterprise SQL Server 4
- ASP.NET & Microsoft Enterprise SQL Server 5

The document “**HW7_siteManager.zip**” will be necessary for creating roles and users and adding users to roles.

The document “**HW7_Creating a search page**” will be useful to you when creating search functionality.

The zip file “**HW7_CSS for gridview and detailsview**” will be useful for learning to format those controls with an external stylesheet.