

# Lab 2 – ASP.NET MVC Tutorial Exercise & Web Site Proposal

CS296N, Web Development 2: ASP.NET

## Part 1: Getting Started with ASP.NET MVC Tutorial Exercise

Download the sample MVC web site at: <https://code.msdn.microsoft.com/Getting-Started-with-91a65652>

Use the “Entity Framework Migrations” Update-Database command as shown in step 9 of the following page: <http://www.asp.net/mvc/overview/older-versions/getting-started-with-ef-5-using-mvc-4/building-the-ef5-mvc4-chapter-downloads>

In class, we will do several exercises with this web site. Take a screen shot at the end of each exercise. Upload a document containing all the screen shots.

## Part 2: Term Project Proposal

Write a proposal for a web site that uses ASP.NET MVC. The proposal should consist of three parts:

1. A prose description that is at least half a page in length (longer if you use a lot of bulleted lists)
2. A summary of the data you expect to store in the database. Organize this as a tentative list of tables and data fields.
3. A site map that lists each page in the web site. The site map can be done in outline form.

The proposed web site should meet the following requirements:

1. Be interactive. This means that it doesn't just consist of static HTML pages with links to other pages. There should be one or more web pages that display content that is generated by software running on the server. And the content should be generated in response to input from the user. An example would be a web page with a to-do list that gives you a different set of tasks depending on the day selected by the user.
2. Include some kind of interactive “rich” media. This could be as simple as images the user can click on, and/or various images that are displayed in response to user input. It could involve video or sound or jQuery animations, or some other media besides text.
3. Be data-driven. This means that the content of one or more of your web pages contains content derived from information stored in a database. In addition:
  - The content should be determined programmatically.
  - Users should be able to enter data that will be stored in the database.
  - Some of the data entered by users should be visible to other users.
  - Users should be able to do some kind of searching of the database.

An example would be a classified advertising site where users could enter items for sale and other users would be able to see those items and search for items by category.

4. Be moderately complex- not too simple, but not too hard to build. Here are some criteria:
  - The database should have 3 to 6 tables
  - The total number of fields in the database should be between 8 and 30.
  - There should be between 8 and 12 web pages.
  - The web site should have some kind of navigation that appears on each page.
5. Require authentication and authorization. This means there will be a way for users to register and log in. There should be at least three levels of authorization:
  - Guest- these users don't need to log in, but will only be able to access a limited number of pages and/or features.
  - Registered user- these users can access anything except the pages/features that are only for administrators.
  - Administrator- these users can access everything.
6. Brainstorming ideas
  - Do you have a hobby or particular interest? You could make a web site related to that. Some ideas would be to include a gallery where users could upload pictures and other users could leave comments, a forum, live text chat.
  - Maybe you have seen some need at a place you have worked and could make a web site to meet that need. Some kind of project management site? An issue tracking site? A customer relations site?
  - Is there some kind of a web site you wish that LCC had for students? Or maybe there is some web site you wish a company you do business with had?