Lab 9 – Authentication and Authorization
CS296N, Web Development 2: ASP.NET

Objectives

Gain experience using the ASP.NET Core Identity framework for authentication:

- User registration
- User login

and authorization:

- Define user roles
- Restrict access to different parts of your web site based on different user roles.

Part 1: Textbook Exercise
Do the project in *Pro ASP.NET Core MVC,* Ch. 12 – SportsStore:

Part 2: Authentication

Modify your Community Web site so that it has the following security features:

- A registration page
- A login page
- A User domain model. You can call this anything you like, but it must be derived from IdentityUser
- At least one of your other domain models needs to have a User. For example, the Message model.

Part 3: Authorization

Modify your Community Web site so that it has the following security features:

- Define at least two roles: *member* and *administrator*, which are created automatically – possibly in the SeedData class.
- Another registration page, that can only be used by administrators that has an option for assignment a role. (The existing registration page should always put new users in the *member* role.
- Use each of the authorization roles to restrict access to some parts of the web site. There should be at least three views that don't require authorization: home, registration, and login.

Submission to Moodle

<u>Beta Version</u>

Upload the following to the Code Review Forum:

1. Part 1: A document containing screen-shots of the SportsStore web app from Ch. 12 of the textbook running in your browser. (Please use .docx or .pdf format)
2. Parts 2 and 3: A zip file containing your web app's Visual Studio solution folder.
   Or, a link to a repository containing your web site solution source code. You can put the link on the same document with the report on your exercise from part 1.
3. A document containing a link to your web site on Azure. <u>Publication to Azure is required for this lab.</u>
4. A code review of your lab partner's work. (You do this after your lab partner submits items 1 and 2 and you review them.)

<u>Production Version</u>

1. Items 1—3 above, but revised as needed.
2. The code review of your work (the one done by your lab partner) with the second column ("Production") completed by you.