**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: Security and Deployment

**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.
* An administrative user that is registered during startup so that there is some way of accessing administrative functions.

**Submission to Moodle**

Beta Version

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. Publication to Azure is required for this lab.
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.)

Production Version

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.