**Exercises – Module 2 ASP.NET Identity**

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During the exercises, you will be implementing an Asp.Net MVC Web application with an identity structured database. You will create action-methods for handling identities, claims and roles. You will further more implement authorization based on roles and claims. These exercises give you a chance to explore the topics covered in this course.

**Exercise 1**

* Create a new **Asp.Net MVC Web application**.
* Add a new controller and name it **ClaimController** in the controller folder.
* Add an action method and name it **Add**.
* Now add the **Authorize** attribute to the newly created action method.
* Add an action method and name it Add. Decorate the action method with the attribute **HttpPost.**
* Add logic to the post action method to add a claim to the currently logged in user.
* You will now create a model which you call **CustomClaimModel**.
* Add a view to the **Add** action methods, in which you will be able to enter values for a new claim.
* Now add a new action method and name it **List**. Decorate the action method with the **Authorize** attribute.
* Add logic for the action method to be able to **list** all claims for the logged in user.
* Create the view for this action, make it list all the claims for the logged in user.
* Run the application and try to add some new claims to the user. Browse to the list view to see the newly added claims.
* Create a new class and name it **ClaimsAuthorizeAttribute**. Make the class inherit from the **AuthorizeAttribute** class.
* Add fields for claim type and value
* Add a constructor which sets the values for the fields.
* Override the **OnAuthorization** method and make it check if the user has a certain claim.
* Add your newly created custom attribute to any of your action methods and specify which claim type and value to authorize.
* Run the application and try to access the view, which you decorated with the attribute.