**Exercises – Module 1 ASP.NET Identity**

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During the exercises, you will be implementing a console application with a database which contains identities. You will also create simple CRUD methods for handling identities, claims and roles. These exercises give you a chance to explore the topics covered in this course.

**Exercise 1**

* Create a new console application in Visual Studio.
* Install **Microsoft.AspNet.Identity.Core** and **Microsoft.AspNet.Identity.Core.EntityFramework** viathePackage Manager Console or right clicking the project and choose Manage NuGet Packages.
* Add a new class and call it **ApplicationDbInitializer**. Make sure that the class inherits from the generic **DropCreateDatabaseAlways**.
* Create a field for **UserManager** in the **ApplicationDbInitializer.**
* Create a method which overrides the **seed** method, and add logic for populating the database, by using the usermanager instance.
* Initialize the database in Main and run the method to populate the database with Identities.
* We will now have a local database. Open up the **SQL Server Object Explorer** and browse the different tables which has been created. Note that the table **AspNetUsers** table, now contains identities.

**Exercise 2**

* Add a class and name it **IdentityCrud**.
* Add two fields for easy access to **UserManager** and **RoleManager** in the solution.
* Add methods for creating and deleting identities.
* Run the methods and browse the database tables via **SQL Server Object Explorer**, to see the newly created values in the database.
* Add the corresponding methods for roles and claims.
* Run the methods and once again browse the database tables.
* Now create a method that assigns a role to an identity.

You will now have created simple CRUD (Create, Read, Update, Delete) for managing Roles, Claims and Identities.