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ASP.NET Core Identity tutorial from scratch

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In this video and in our upcoming videos in this series we will discuss everything you need to effectively use **ASP.NET Core Identity** to implement security related features in your asp.net core application.

ASP.NET Core Identity

ASP.NET Core Identity is a membership system. It allows us to create, read, update and delete user accounts. Supports account confirmation, authentication, authorisation, password recovery, two-factor authentication with SMS. It also supports external login providers like Microsoft, Facebook, Google etc. We will discuss implementing these features in our upcoming videos in this series.

Adding ASP.NET Core Identity Support in ASP.NET Core



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Application

The following are the steps to add and configure ASP.NET Core Identity

Step 1 : Inherit from `IdentityDbContext` class

```
public class AppDbContext : IdentityDbContext
{
    // Rest of the code
}
```

Your **application DbContext class** must inherit from `IdentityDbContext` class instead of `DbContext` class. This is required because `IdentityDbContext` provides all the `DbSet` properties needed to manage the identity tables in SQL Server. We will see all the tables that the asp.net core identity framework generates in just a bit. If you go through the hierarchy chain of `IdentityDbContext` class, you will see it inherits from `DbContext` class. So this is the reason you do not have to explicitly inherit from `DbContext` class if your class is inheriting from `IdentityDbContext` class.

Step 2 : Configure ASP.NET Core Identity Services

In `ConfigureServices()` method of the `Startup` class, include the following line of code.

```
services.AddIdentity<IdentityUser, IdentityRole>()
    .AddEntityFrameworkStores<AppDbContext>();
```

- `AddIdentity()` method adds the default identity system configuration for the specified user and role types.
- `IdentityUser` class is provided by ASP.NET core and contains properties for `UserName`, `PasswordHash`, `Email` etc. This is the class that is used by default by the ASP.NET Core Identity framework to manage registered users of your application.
- If you want store additional information about the registered users like their `Gender`, `City` etc. Create a custom class that derives from `IdentityUser`. In this custom class add the additional properties you need and then plug-in

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this class instead of the built-in `IdentityUser` class. We will discuss how to do this in our upcoming videos.

- Similarly, `IdentityRole` is also a builtin class provided by ASP.NET Core Identity and contains Role information.
- We want to store and retrieve User and Role information of the registered users using EntityFramework Core from the underlying SQL Server database. We specify this using `AddEntityFrameworkStores<AppDbContext>()` passing our application `DbContext` class as the generic argument.

Step 3 : Add Authentication middleware to the request pipeline

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Error");
        app.UseStatusCodePagesWithReExecute("/Error/{0}");
    }

    app.UseStaticFiles();
    app.UseAuthentication();
    app.UseMvc(routes =>
    {
        routes.MapRoute("default", "{controller=Home}/{action=Index}/{id?}");
    });
}
```

In the `Configure()` method of the `Startup` class, call `UseAuthentication()` method to add the Authentication middleware to the application's request processing pipeline. We want to be able to authenticate users before the request reaches the MVC middleware. **So it's important we add authentication middleware before the MVC middleware in the request processing pipeline.**

Step 4 : Add Identity Migration

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In Visual Studio, from the [Package Manager Console](#) window execute the following command to add a new migration

[Add-Migration](#) AddingIdentity

This migration contains code that creates the tables required by the ASP.NET Core Identity system.

Error : The entity type 'IdentityUserLogin<string>' requires a primary key to be defined

If you get this error, the most likely cause is that you are overriding [OnModelCreating\(\)](#) method in your application [DbContext](#) class but not calling the base [IdentityDbContext](#) class [OnModelCreating\(\)](#) method.

Keys of Identity tables are mapped in [OnModelCreating](#) method of [IdentityDbContext](#) class. So, to fix this error, all you need to do is, call the base class [OnModelCreating\(\)](#) method using the [base](#) keyword as shown below.

```
public class AppDbContext : IdentityDbContext
{
    public AppDbContext(DbContextOptions<AppDbContext> options)
        : base(options)
    {
    }

    public DbSet<Employee> Employees { get; set; }

    protected override void OnModelCreating(ModelBuilder modelBuilder)
    {
        base.OnModelCreating(modelBuilder);
        modelBuilder.Seed();
    }
}
```

Step 4 : Generate ASP.NET Core Identity Tables

Finally execute [Update-Database](#) command to apply the identity migration and have the required identity tables created.

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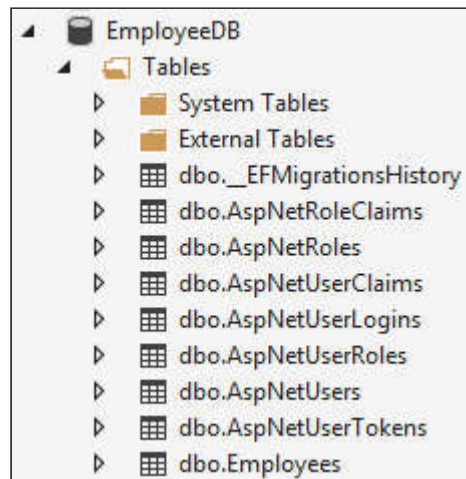
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Next Video : **How to register a new user using asp.net core identity**



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