

ASP.NET Identity 2

Tomáš Jurásek
Riganti, MSP

ASP.NET Identity

- ▶ System for authentication and authorization
- ▶ You can manage your accounts, roles, OAuth
- ▶ Include some basic templates (Login, Role, etc)
- ▶ You need this nuget packages:
 - Microsoft.AspNet.Identity.Owin**
 - Microsoft.AspNet.Identity.Core**
 - Microsoft.AspNet.Identity.EntityFramework**
 - Microsoft.Owin.Host.SystemWeb**

Basic Templates

IdentityRole

IdentityUser

IdentityUserClaim

IdentityUserLogin

IdentityUserRole

For example:

```
public class AppUser : IdentityUser<int, AppUserLogin, AppUserRole, AppUserClaim>
{
}
```

You must extend your DbContext

```
public class AppDbContext: IdentityDbContext<AppUser, AppRole, int,  
AppUserLogin, AppUserRole, AppUserClaim>  
{  
    ...  
}
```

Stores

```
public class AppUserStore : UserStore<AppUser, AppRole, int, AppUserLogin, AppUserRole, AppUserClaim>
{

    public AppUserStore(IAppUnitOfWorkProvider unitOfWorkProvider)
        : base((unitOfWorkProvider.GetCurrent() as AppUnitOfWork)?.AppDbContext)
    {
    }
}
```

```
public class AppRoleStore : RoleStore<AppRole, int, AppUserRole>
{
    public AppRoleStore(AppDbContext context)
        : base(context)
    {
    }
}
```

Managers

```
public class AppUserManager : UserManager<AppUser, int>
{
    public AppUserManager(IUserStore<AppUser, int> store) : base(store)
    {

    }
}
```

```
public class AppRoleManager : RoleManager<AppRole,int>
{
    public AppRoleManager(IRoleStore<AppRole, int> store) : base(store)
    {

    }
}
```

Setup

```
app.UseCookieAuthentication(new CookieAuthenticationOptions
{
    AuthenticationType = DefaultAuthenticationTypes.ApplicationCookie,
    LoginPath = new PathString("/Login/Index")
});
```

```
private IAuthenticationManager AuthenticationManager
{
    get
    {
        return HttpContext.GetOwinContext().Authentication;
    }
}
```

Login

```
var identity = userFacade.Login(„UserName“, „Password“);
AuthenticationManager.SignIn(new AuthenticationProperties() { IsPersistent = false },
identity);
```

Register

```
userFacade.Register(new DAL.Entities.AppUser {Email=„email“, UserName =
„username“ },„password“);
```


Demo link

- ▶ <https://github.com/tomasjurasek/PV178>