What's new with ABP 8.0?

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ABP Framework 8.0 Highlights

https://abp.io/b/v80

- Upgraded to .NET 8.0
- Upgraded to Angular 17
- Dynamic Claims
- CDN Support for Bundling & Minification system
- Read-Only Repositories: Don’t track changes by default
- Account Module: Set username after social login

Upgraded to .NET 8.0

Migration Guides

- Microsoft's Migrate from ASP.NET Core 7.0 to 8.0 documentation
- ABP Framework 7.x to 8.0
- ABP Commercial 7.x to 8.0

Upgraded to Angular 17

- Angular 17 has been released on **November 8**
- ABP 8.0 Angular UI is based on Angular 17

Dynamic Claims

Dynamic Claims allows you to **get the latest user claims** without need to re-login in each time.

The **Dynamic Claims** feature is used to dynamically generate claims for the user in each request. This was needed because claims-based authentication is using in the ASP.NET Core, and because it stores the claims in the cookie or token, and they are being static, they don't change until a next re-login.

It's already been documented: https://docs.abp.io/en/abp/8.0/Dynamic-Claims

Dynamic Claims

Configure the **AbpClaimsPrincipalFactoryOptions** and set the **IsDynamicClaimsEnabled** option as true 👉

```
public override void ConfigureServices(ServiceConfigurationContext context)
{
    context.Services.Configure<AbpClaimsPrincipalFactoryOptions>(options =>
    {
        options.IsDynamicClaimsEnabled = true;
    });
}
```

Add the **DynamicClaims** middleware into the request pipeline 👉

```
public override void OnApplicationInitialization(ApplicationInitializationContext context)
{
    // Add this line before UseAuthorization.
    app.UseDynamicClaims();
    app.UseAuthorization();
    //...
}
```

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CDN Support for Bundling & Minification System

```
Configure<AbpBundlingOptions>(options =>
{
    options.StyleBundles
        .Add(bundleName: "MyStyleBundles", configureAction: config :BundleConfiguration =>
        {
            config
                .AddFiles("/styles/my-style-1.css")
                .AddFiles("/styles/my-style-2.css")
                .AddFiles("https://cdn.abp.io/bootstrap.css");
        });

    options.ScriptBundles
        .Add(bundleName: "MyScriptBundles", configureAction: config :BundleConfiguration =>
        {
            config
                .AddFiles("/scripts/my-script-1.js")
                .AddFiles("/scripts/my-script-2.js")
                .AddFiles("https://cdn.abp.io/bootstrap.js");
        });
});
```

In this version on, ABP Framework's MVC / Razor Pages UI's Bundling System provides **CDN Support**.

The system automatically recognizes the **external/CDN files** and places them as script tags into the page along with the bundled CSS/JS files.

```
<link rel="stylesheet" href="/__bundles/MyStyleBundles.EA8C28419DCA43363E9670973D4C0D15.css?_v=638331889644609730" />
<link rel="stylesheet" href="https://cdn.abp.io/bootstrap.css" />

<script src="/__bundles/MyScriptBundles.C993366DF8840E08228F3EE685CB08E8.js?_v=638331889644937120"></script>
<script src="https://cdn.abp.io/bootstrap.js"></script>
```

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Read-Only Repositories: Don’t track changes by default

```
public class MyService
{
    private readonly IRepository<Book, Guid> _bookRepository;
    private readonly IReadOnlyRepository<Book, Guid> _bookReadOnlyRepository;

    public async Task MyMethod()
    {
        //ReadOnly Repository -> GetListAsync(), GetAsync() vs. read-only methods
        //not change tracking involved
        var books :List<Book> = await _bookReadOnlyRepository.GetListAsync();

        //Repository -> All methods including InsertAsync(), UpdateAsync() etc.
        var newBook = await _bookRepository.InsertAsync( entity: new Book());
        var newBook2 = await _bookReadOnlyRepository.InsertAsync(new Book()); //not exists
    }
}
```

In this version, ABP Framework provides read-only repository interfaces (**IReadOnlyRepository<T>** or **IReadOnlyBasicRepository<T>**) to explicitly indicate that your purpose is to query data, but not change it.

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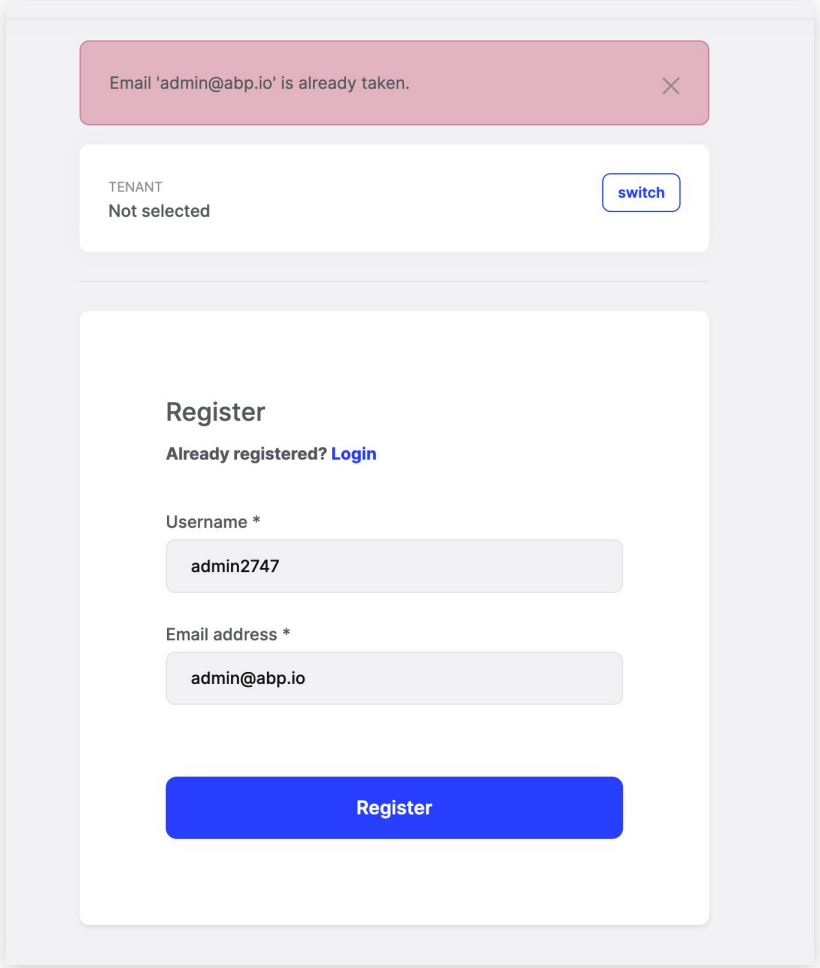
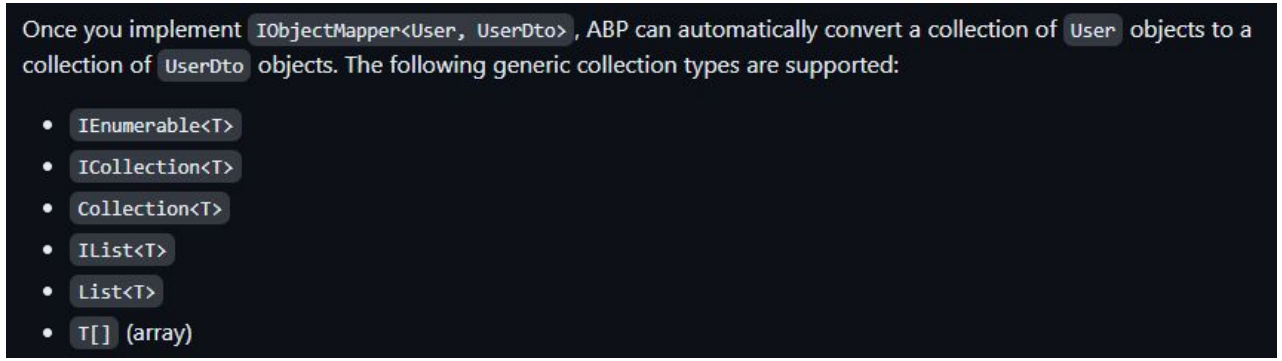
Account Module: Set username after social login



Other News

- **LDAP over SSL (LDAPS)** setting has been added and recommended to establish a secure connection.
- **Object Mapping Enhancements** (supports mapping collection of objects for custom object mappers)



- **Sending attachments** with **IEmailSender.QueueAsync()** method

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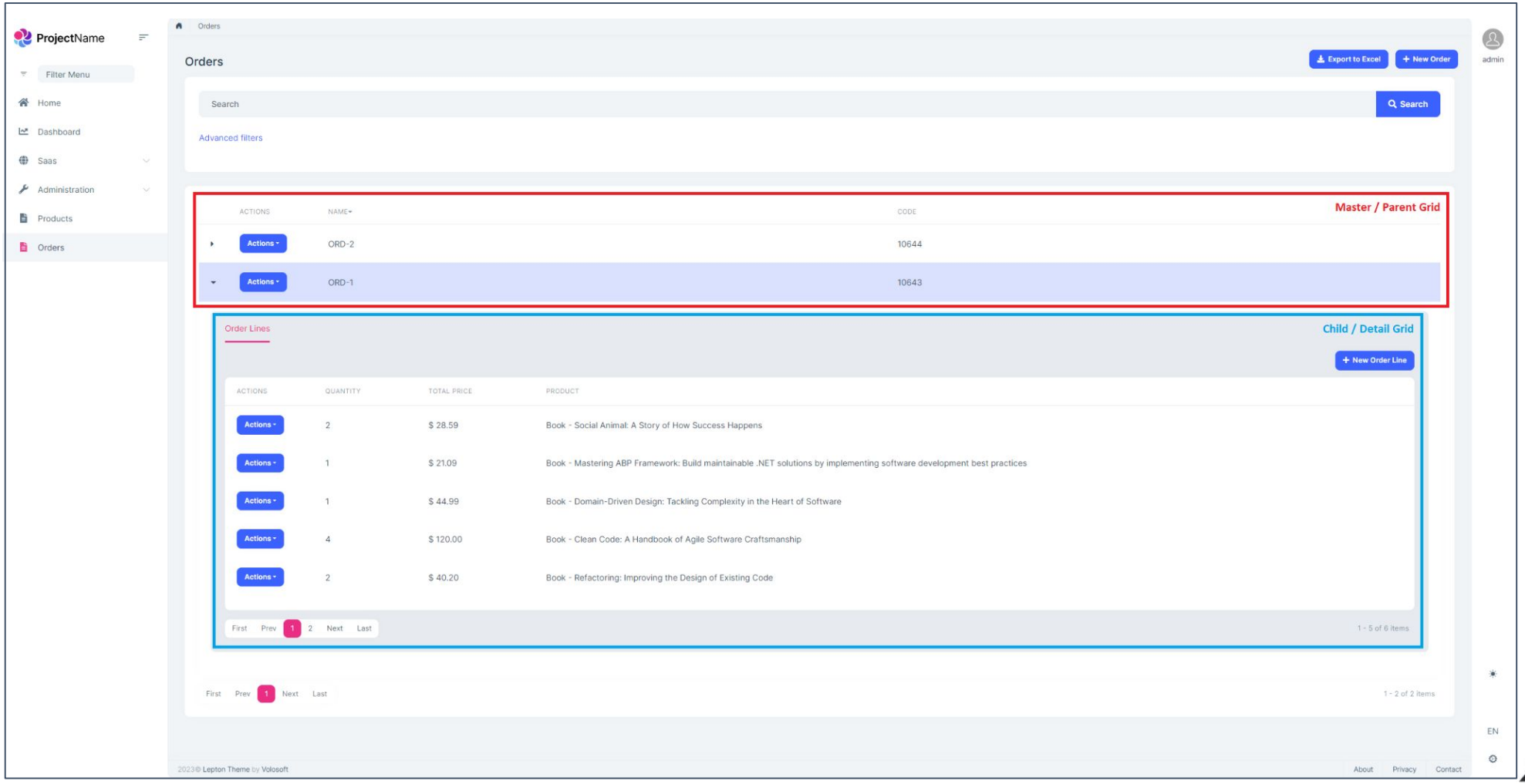
ABP Commercial 8.0 Highlights

- Suite: Generating **Master/Detail** Relationship
- Get **profile picture** from **social/external logins**
- Switch from **Ocelot** to **YARP** for the API Gateway (Microservice Solution Template)
- **Password complexity indicators** for MVC & Blazor UIs
- **Export & Import** Users as Excel/CSV

Suite: Generating Master/Detail Relationship



THANKS FOR WATCHING

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