

Implementing Authentication with ASP.NET Core Identity



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Overview



Creating a new Identity project

Retrofitting identity

Data store

Configuration in startup class

UI and helper classes

Working with claims

Roles

Two factor authentication

External identity providers



What is
Identity?

Framework around cookie authentication

Contains helper classes and UI

Customizable

Configurable



Features

Login and logout

User registration

Third-party logins

Password management

Account lockout

Two-factor authentication



Identity Configuration

Sensible defaults

Deviate from defaults



<https://4sh.nl/IdentityCustomDataStores>



<https://4sh.nl/IdentityConfiguration>



Understanding ASP.NET Core 3.x



Customizing Identity's UI

Needed for all pages?

**_ViewStart.cshtml already sets the
themed layout page**

**Some pages need more customization
than other**



Identity's UI

Login/logout

Confirm email address

Password management

Registration

Account lockout

Two factor authentication

Personal data



DbContext Options

**Derive existing DbContext from
IdentityDbContext**

**Use a separate DbContext for Identity
pointing to the same database**

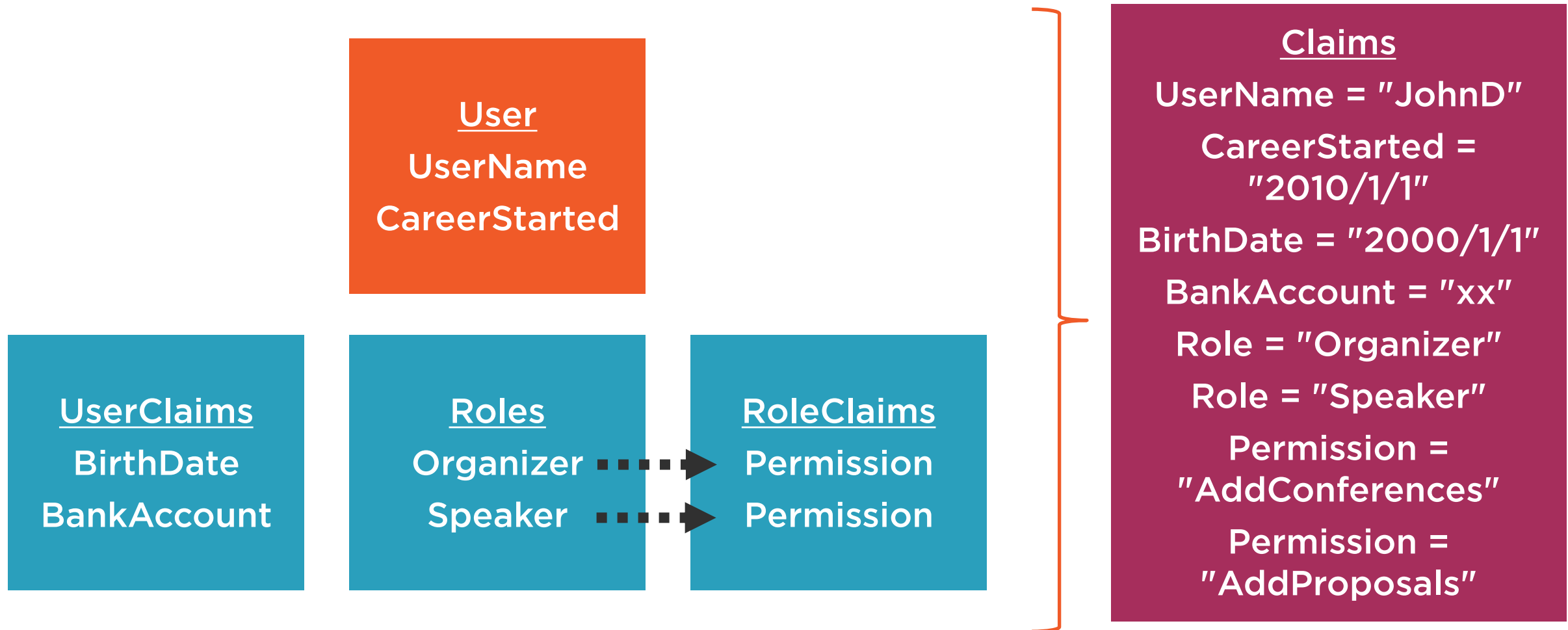
**Use a separate DbContext for Identity
using different databases**



Role support is off, it needs to be switched on explicitly.



Claims and Roles



Email functionality



Register



Forgot password



SendGrid

Cloud service to send emails

SendGrid.com

Also available in Azure

Needs API key

NuGet package available

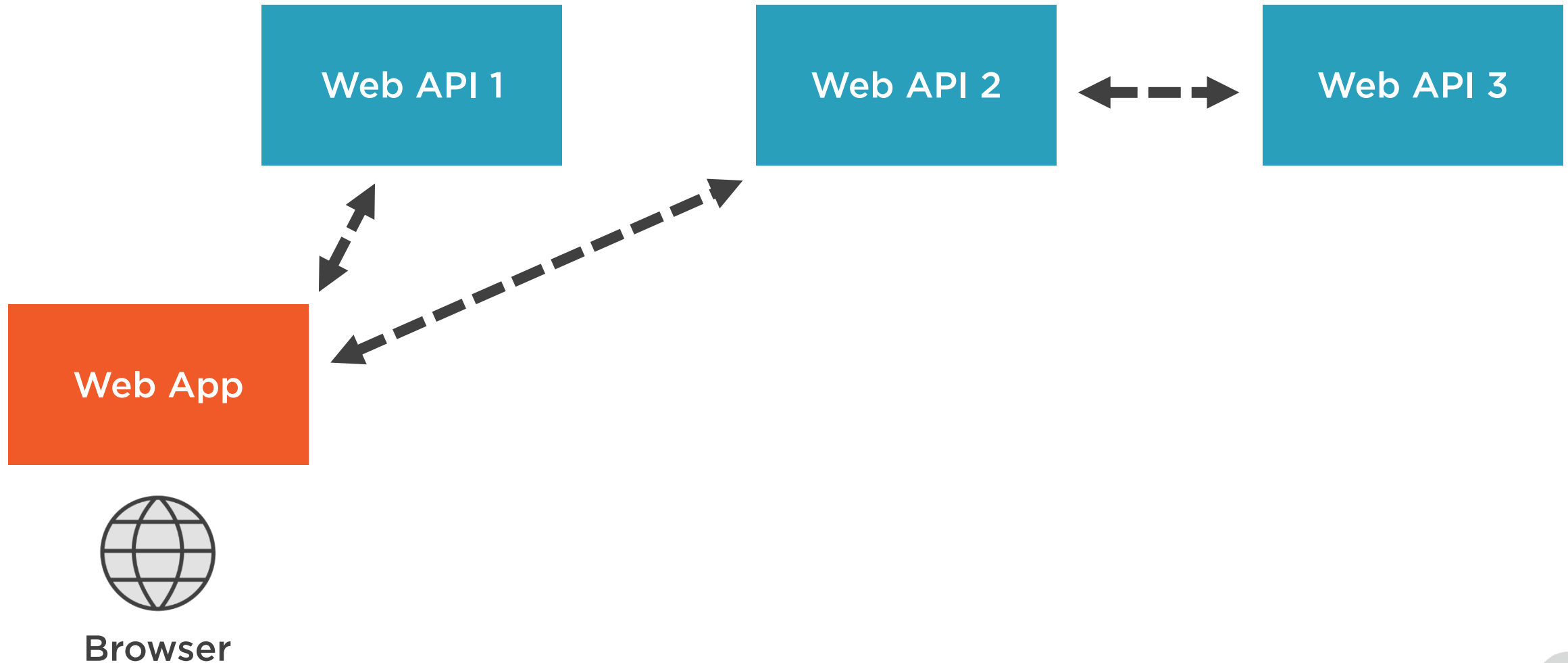
Store settings in secrets.json and
application.json



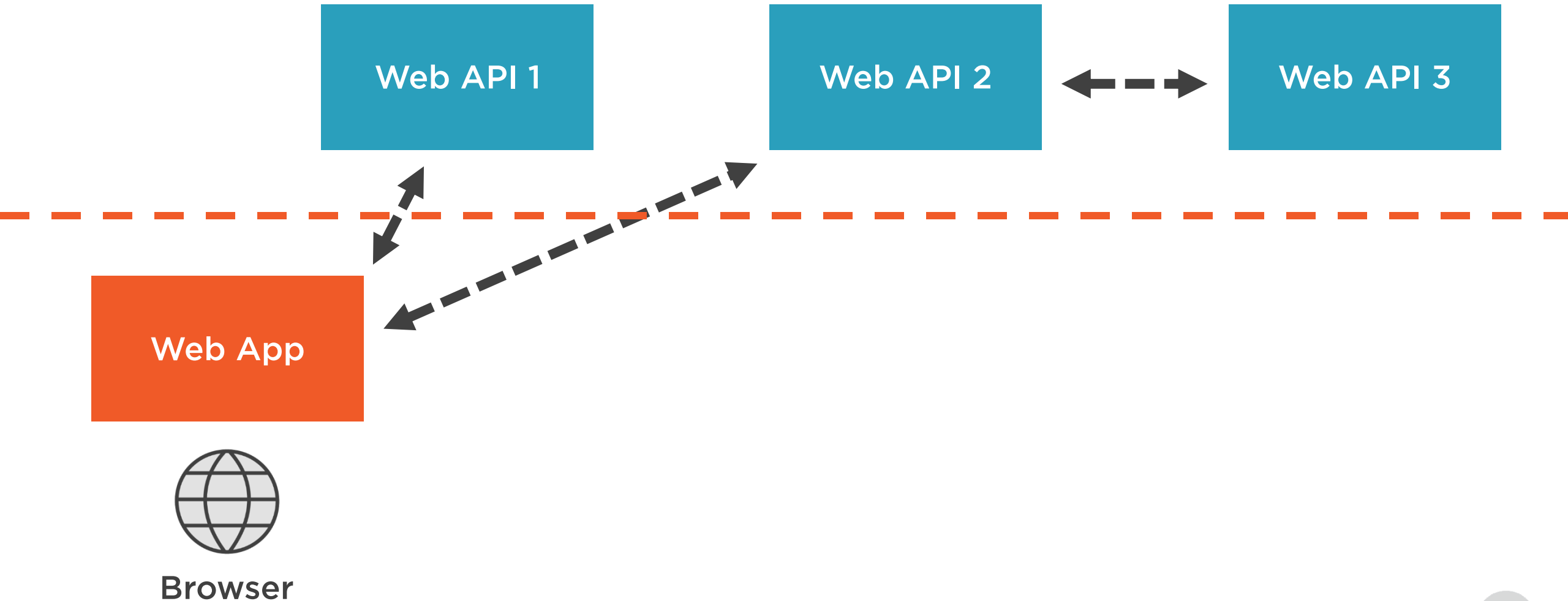
<https://4sh.nl/qrcodejs>



An Application Landscape



An Application Landscape



Identity in an Application Landscape

Cookies are for one URL

Use a hack or invent your own?

No. Very difficult to make it safe

Use OpenIdConnect



Summary



Claims-centered framework to add local authentication to your app

External identity providers support

Almost all inner components can be replaced

Configurable

