## Summary

This solution has 3 applications that interact using an OpenId Jason Web token that is provided by IdentityServer4 after successful login: the IdentityServer4 “authority” site, the Angular web site, and the Api. The web site is an SPA using Angular 4 and uses the oidc client library to interact with the “authority” STS server for authentication. An Api call is initiated from the web site sending the auth token with its claims. The Api consumes the token, authorizes the call using the subject and the claims before executing any of the api method code.

## Installing and running the example solution

Git clone

Open and Build the **IdentityServerAngularWebApiOpenId.sln** solution

Start Api site:

* Open command prompt in the folder that contains \Company.Api
* Type “dotnet run”, which should start the api at <http://localhost:52018>

Start IdentityServer site:

* Open command prompt in the folder that contains \Company.IdentityServer
* Type “dotnet run”, which should start the app at <http://localhost:5010>
* First time run will create the aspnet Identity tables in localdb with a couple of test users

Start the Angular web site:

* Make sure you have node, npm, webpack, and yarn installed.
* Open command prompt in the folder that contains \Company.Web
* Type “yarn install”, which will setup your nodemodules dependencies
* Type “npm start”, which should start the app at <http://localhost:5003> in dev mode with hot module reloading (HMR)

Testing the site with authentication using IdentityServer:

* Navigate to <http://localhost:5003>, click Login
* It should take you to <http://localhost:5010> to a login page
* Type [user1@company.com](mailto:user1@company.com), password Password123!
* It should log you in and return you to the Angular site on port 5003
* Clicking the Contact Info menu item will initiate an api call to fetch some user info. Because the database tables for user information hasn’t been created yet it will fail.
* Check api status. Go to <http://localhost:52018/api/contacts/status> which should also fail due to no database tables being implemented yet.