

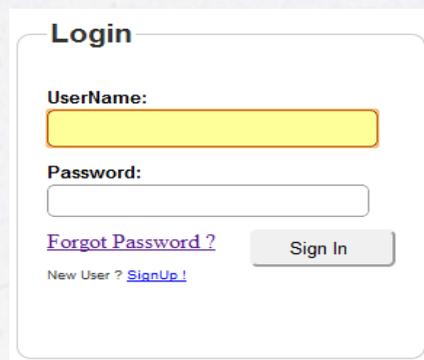
SOCIAL LOGIN WITH SPRING-SOCIAL

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2015.02.04 | CALLISTAENTERPRISE.SE

WHAT IS SOCIAL LOGIN?

- Replace self registration of user accounts with authentication based on social networks accounts
 - + **Users:** No registration process or new password to remember
 - + **Developer:** Delegate user registration and authentication to trusted social networks



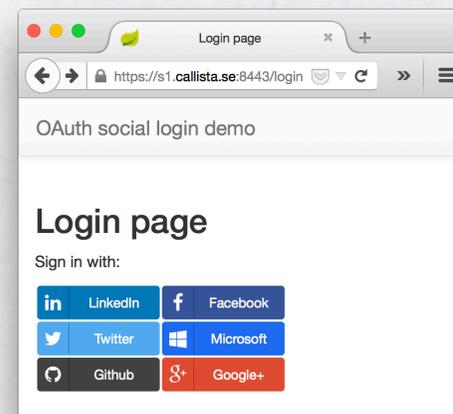
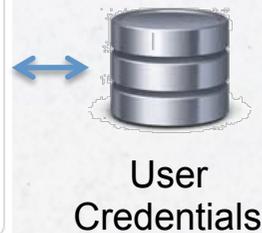
Login

UserName:

Password:

[Forgot Password ?](#)

New User ? [SignUp !](#)



Login page

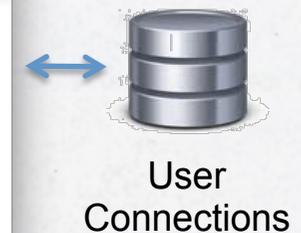
https://s1.callista.se:8443/login

OAuth social login demo

Login page

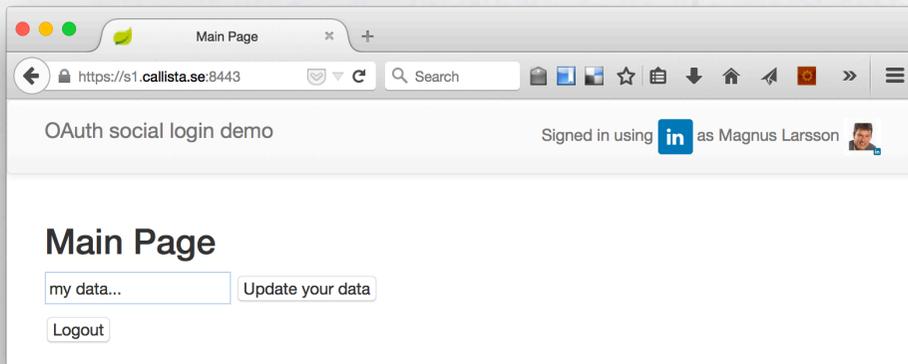
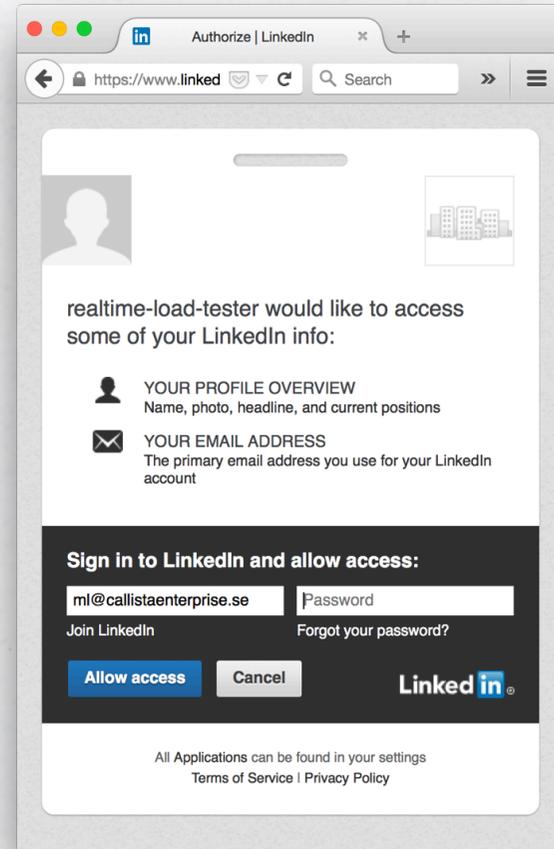
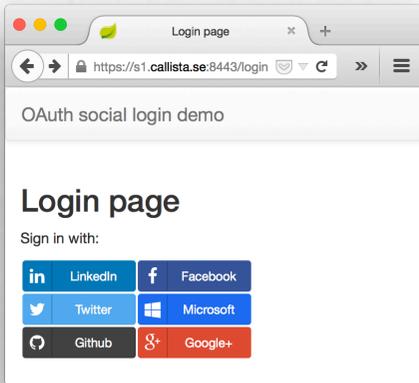
Sign in with:

	LinkedIn		Facebook
	Twitter		Microsoft
	Github		Google+



WHAT IS SOCIAL LOGIN?

OAuth



WHAT IS SPRING SOCIAL?

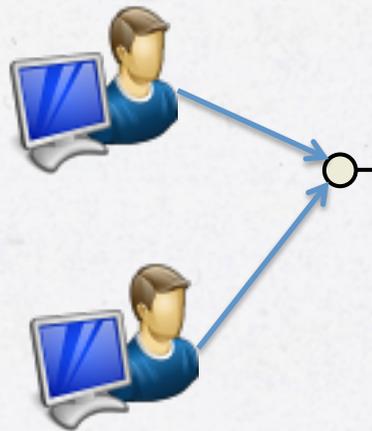
- A spring.io project
- [spring-social](#)
 - *”Connect your Spring application with Software-as-a-Service (SaaS) API providers such as Facebook, Twitter, and LinkedIn.”*
 - Simplifies
 - » Using OAuth, v1.0 and v2.0
 - » Connecting local user accounts to OAuth provider accounts
 - Automatic persistence of connections
 - » Setting up a secure environment using **spring-security**
 - » Defining Java bindings for OAuth providers APIs

WHAT IS SPRING SOCIAL?

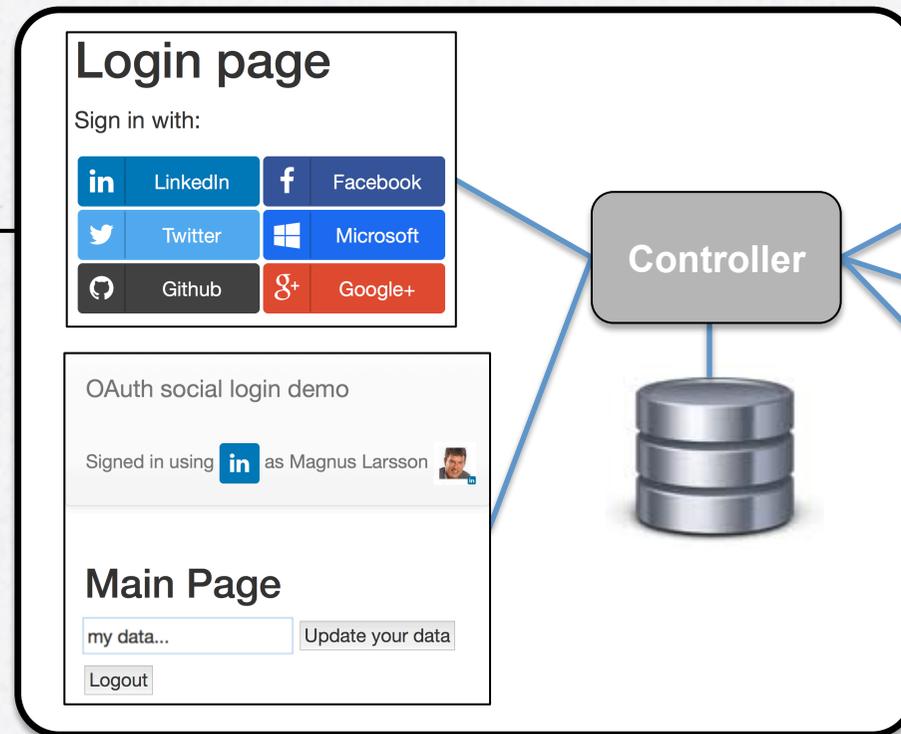
- [spring-social](#), cont...
 - Extensible
 - » Supports Twitter, Facebook, LinkedIn and GitHub in the core
 - » ≈ 30 community projects
 - ▶ Not only for social providers, e.g. [Salesforce](#)

SAMPLE APPLICATION

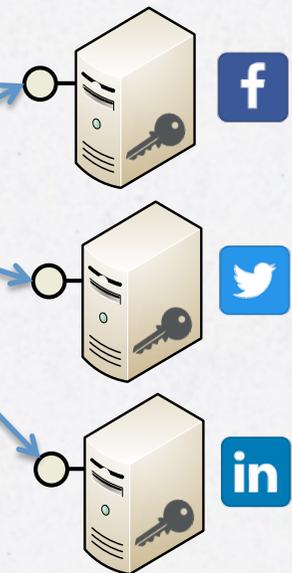
Users



Web Application



Authorization Servers

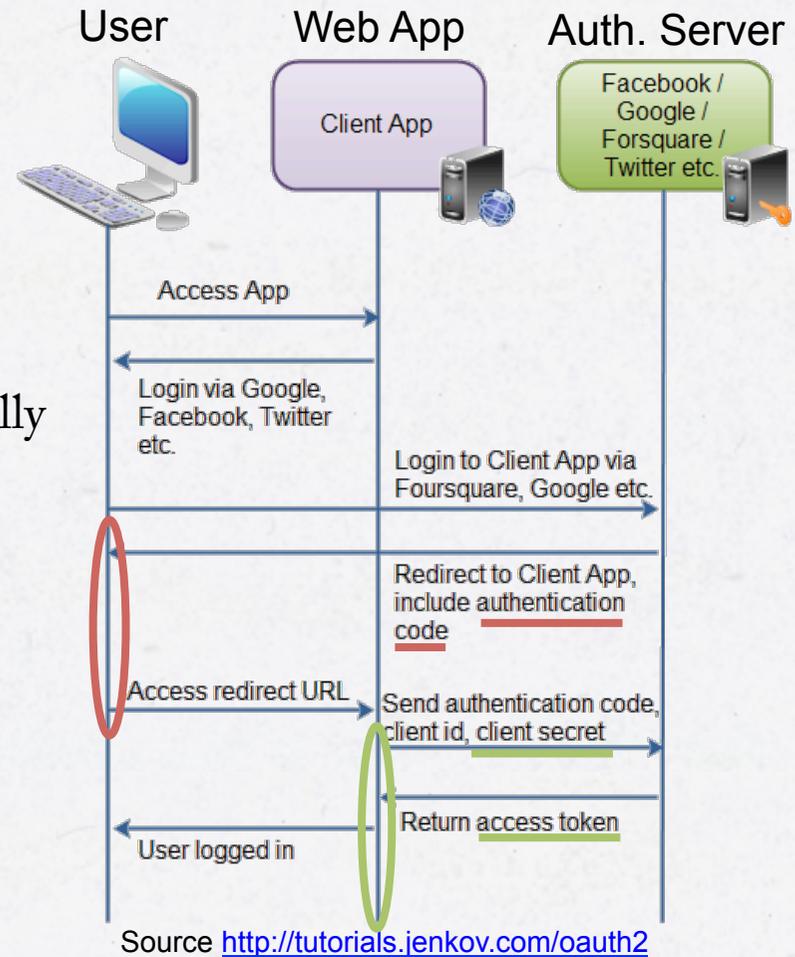


For details see

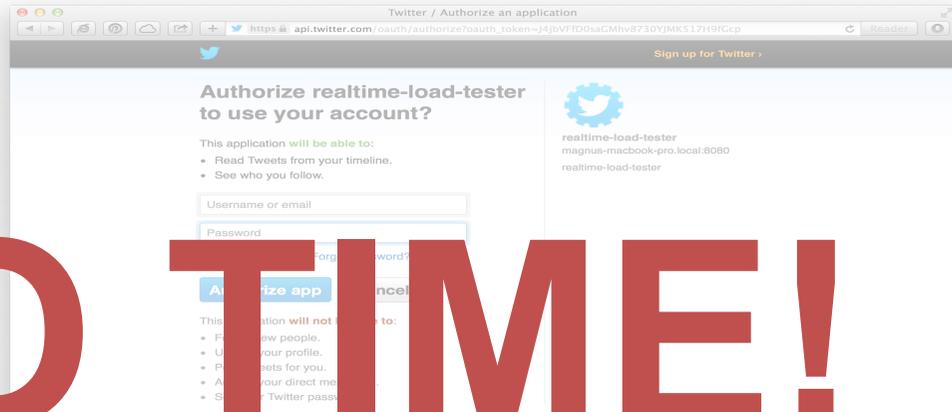
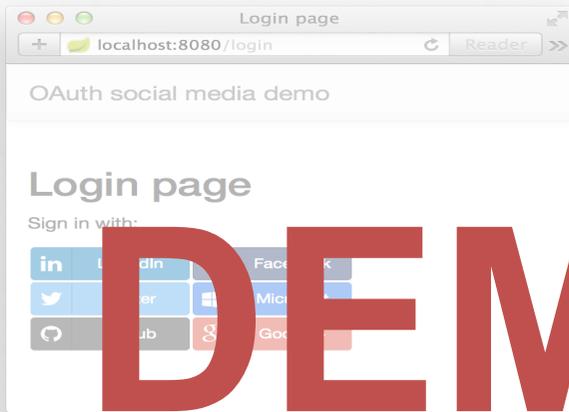
<http://callistaenterprise.se/blogg/teknik/2014/09/02/adding-social-login-on-a-website-using-spring-social/>

SAMPLE APPLICATION

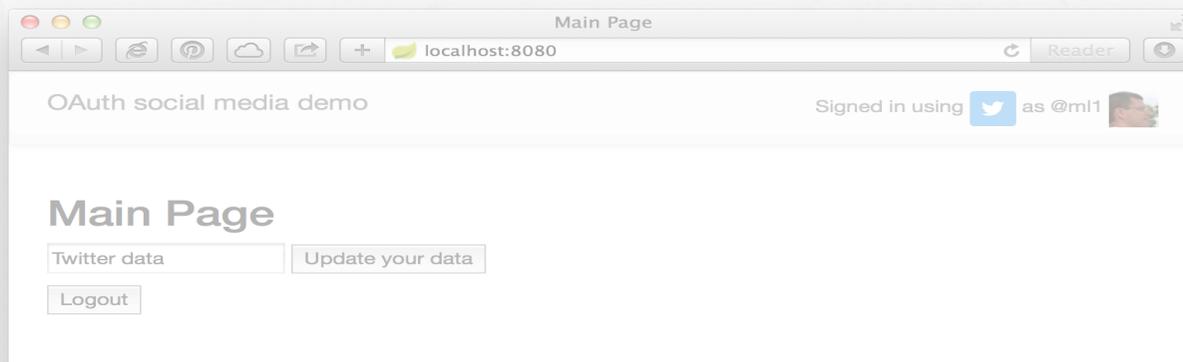
- Uses
 - *Implicit Login*
 - » Local user account created automatically
 - *Authorization Code Grant Flow*
 - » Only *authentication code* visible in web browser (\approx a one-time password)
 - » *Access token* kept safe in the web app



DEMO



DEMO TIME!



SECURITY - OAUTH

- Use *Authorization Code Grant Flow* in secure environments
 - I.e. where a client secret and access/refresh token can be kept secret
 - E.g. Web Apps
- Use *Implicit flow* in non-secure environments
 - E.g. in Javascript applications or mobile solutions without a Web App
 - Not as secure as *Authorization Code Grant Flow*...
- Hold on to your *client secret, access tokens* and *refresh tokens* (if any)
- Keep the life short for *access tokens*

SECURITY - WEB

- The [OWASP Top 10](#) security threats!
 - HTTPS
 - » This is the fundament, ensure correct usage!
 - » Use TLS, correct libraries, cipher suites...
 - Injection
 - » Always use parameterized API's
 - XSS
 - » Escape untrusted data
 - » Use HttpOnly Cookies
 - CSRF
 - » Set a unique token in a hidden field per request

SECURITY - WEB

- Address the [OWASP Top 10](#) security threats, cont...
 - SpoofedMe attacks
 - » Don't use email address as an account identifier
 - Insecure Direct Object References
 - » Use indirect UUID alike references
- Hard to handle?
 - Use web framework that makes the heavy-lifting
 - E.g. use **spring-social** together with **spring-security** and **spring-mvc**

SUMMARY

- Use social login to
 - Relieve your users from registration and new passwords
 - Delegate user registration and authentication to OAuth providers you trust
- Use **spring-social** to simplify the work
 - Use **spring-security** to handle many of the security aspects
- For details see <http://callistaenterprise.se/blogg/teknik/2014/09/02/adding-social-login-on-a-website-using-spring-social/>
- New blogs and presentations are published on Twitter ([@callistaent](https://twitter.com/callistaent)) and RSS (<http://callistaenterprise.se/feed.xml>)

QUESTIONS?



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