SOCIAL LOGIN WITH SPRING-SOCIAL

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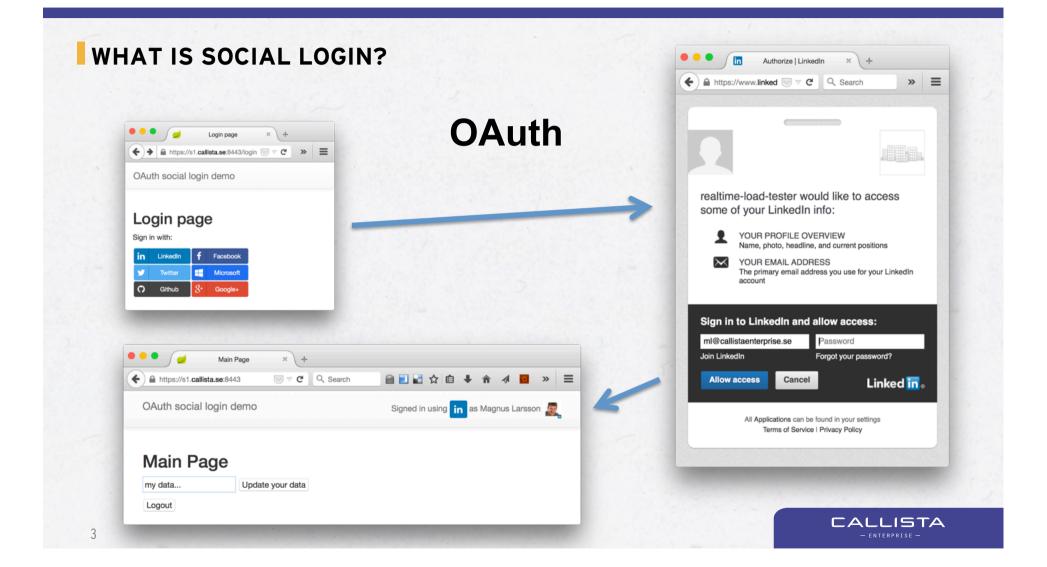
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WHAT IS SOCIAL LOGIN?

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		Login page × +	» =
UserName:		OAuth social login demo	
Password: Forgot Password ? Sign In New User ? SignUp !	User Credentials	Login page Sign in with: in LinkedIn f Facebook Witter Microsoft G Github & Google+	User Connections
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WHAT IS SPRING SOCIAL?

- A <u>spring.io</u> project
- <u>spring-social</u>
 - "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

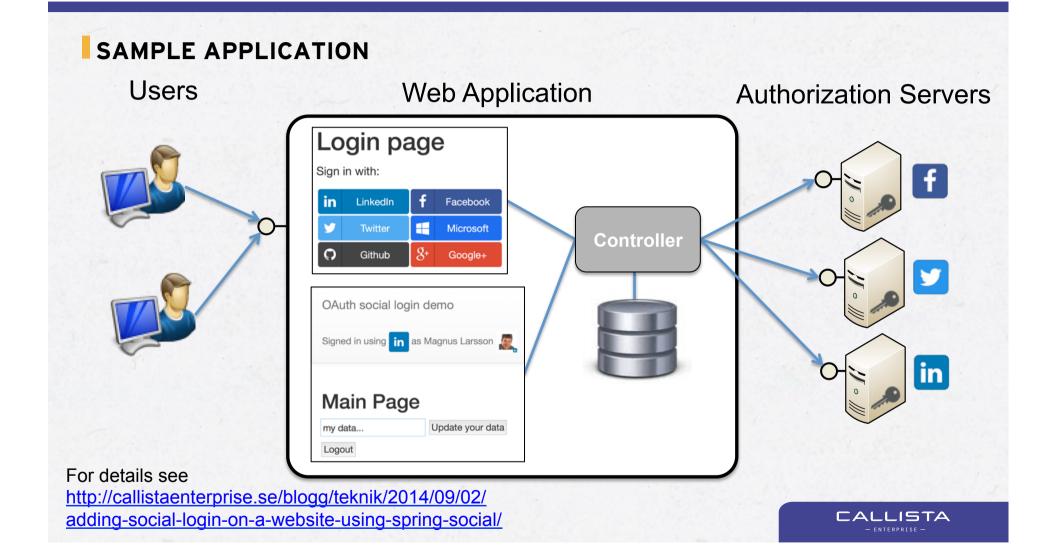
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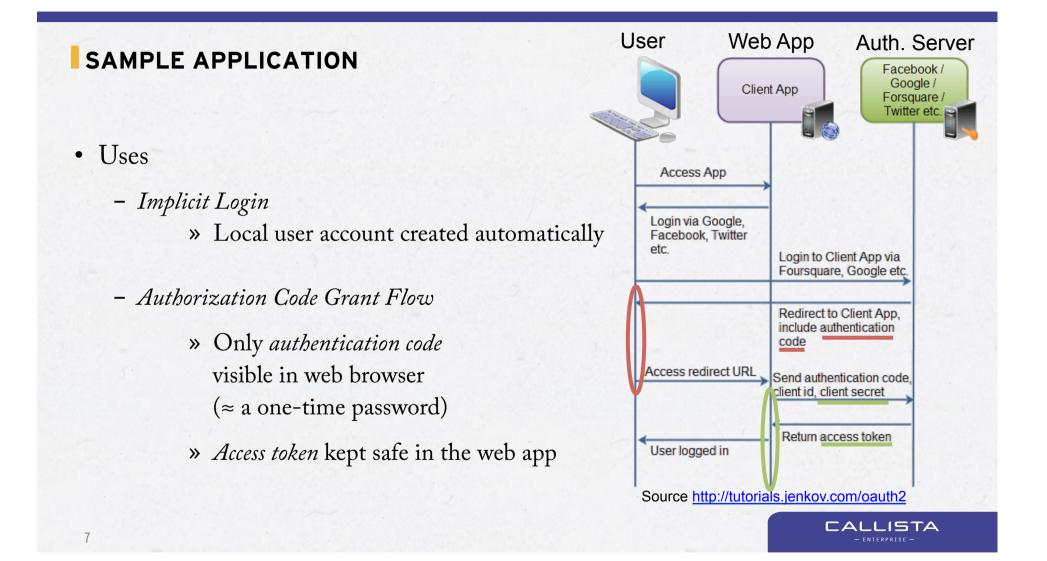
- Automatic persistence of connections
- » Setting up a secure environment using **spring-security**
- » Defining Java bindings for OAuth providers APIs

WHAT IS SPRING SOCIAL?

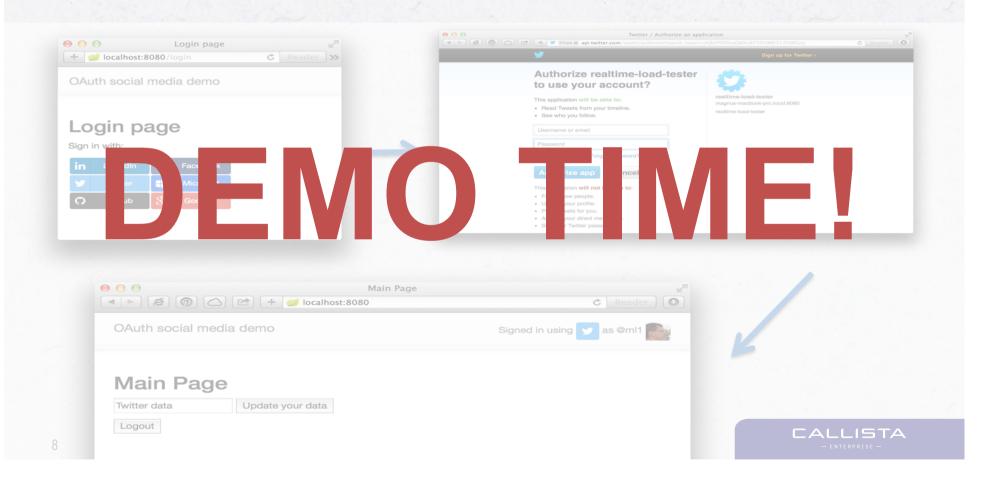
- <u>spring-social</u>, cont...
 - Extensible
 - » Supports Twitter, Facebook, LinkedIn and GitHub in the core
 - » ≈ 30 community projects
 - ► Not only for social providers, e.g. <u>Salesforce</u>







DEMO



SECURITY - OAUTH

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- 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 <u>OWASP Top 10</u> 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

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» Set a unique token in a hidden field per request

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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?

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- 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 <u>http://callistaenterprise.se/blogg/teknik/2014/09/02/</u> adding-social-login-on-a-website-using-spring-social/
- New blogs and presentations are published on Twitter (@callistaent) and RSS (<u>http://callistaenterprise.se/feed.xml</u>)





