Social Media API for Java

JCP EC F2F Meeting

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Redwood City, California 10 / 01 / 12

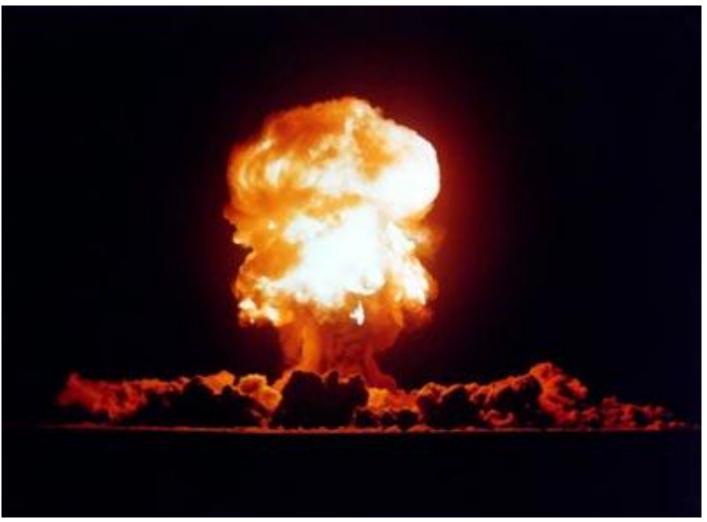


Our Goal

A JAVA API FOR ACCESS TO SOCIAL NETWORKS



Proliferation





Proliferation of Social Media



Apache Shindig



- Open source implementation of OpenSocial & Gadgets specification
- An Apache Software project
- Available in Java & PHP
- http://shindig.apache.org

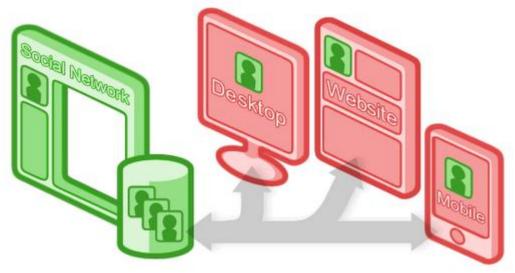
It's Goal:

"Shindig's goal was to allow new sites to start hosting social apps in under an hour's worth of work"



OpenSocial Container

- Become an OpenSocial Container
 - $_{\odot}$ Get Shindig (PHP or Java) or the Google implementation
 - <u>http://shindig.apache.org</u>
 - Look at examples & documentation
 - <u>http://code.google.com/p/opensocial-resources/wiki/SampleApps</u>
 - The "official" OpenSocial implementation has shifted – from Shindig to Google Code





What Is a Gadget?



				Job Submission	Example		My Gadgets
MyProxy Example: Returns with a proxy credential			Simple Job Submission Example Demonstrates how to run a simple remote command.		Gadget MyProxyGadget.		
Username: mpierce	·			Hostname:	gf1.ucs.indiana.edu		JobSubmitGadge
Password:				Executable:	/bin/ls		developer.xml
MyProxy Server: myproxy.teragrid.org	g			Arguments:	-1		Add a gadget:
Submit				Taskname:	2eba2a9e:119aa5bc25c:-7		http://
			7	Grid Provider:	GT2		
User Credentials				Standard Output	t: /tmp/out		
Subject	Time Left	Strength	Delete	Submit	٨		
C=US,O=National Center for Supercomputing Applications,CN=Marlon Pierce	7288	512	Remove	Reload			

My Gadgets	
Gadget	Inlined Cached
MyProxyGadget.xml	
JobSubmitGadget.xml	
developer.xml	
Add a gadget:	
http://	Add

Simple gadgets for getting a Grid proxy credential and running remote commands. Both run on my own Web server.



Portable Contacts

- REST API for Person and Contacts
 - Open source implementation
- Compatible with OpenSocial
 - <u>http://portablecontacts.net</u>

Person info

Name uid photo profile url Age URLs Books Movies

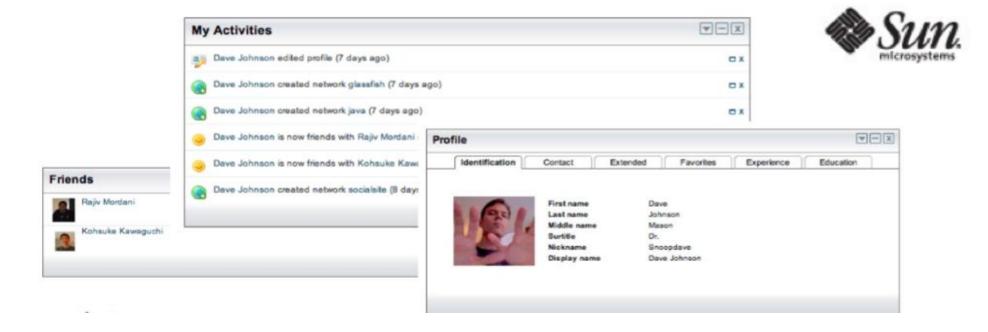
Smoker



SocialSite – Sun's approach to Social

Sun Microsystems

- Socialsite: Shindig + gadget based UI written in Java
- Open Source <u>https://socialsite.dev.java.net/</u>





Facebooks' Query Language

 All of the Facebook API is basically a set of wrappers around their SQL like FQL query language. So you can, if you prefer, make custom methods out of FQL query strings.

var myQuery='SELECT name FROM user WHERE
uid='+api.get_session().uid;

api.fql_query(myQuery, getFQLResponse);

getFQLResponse() is a developer-written callback function

If it's SQL like, could we use something like JPA around it?

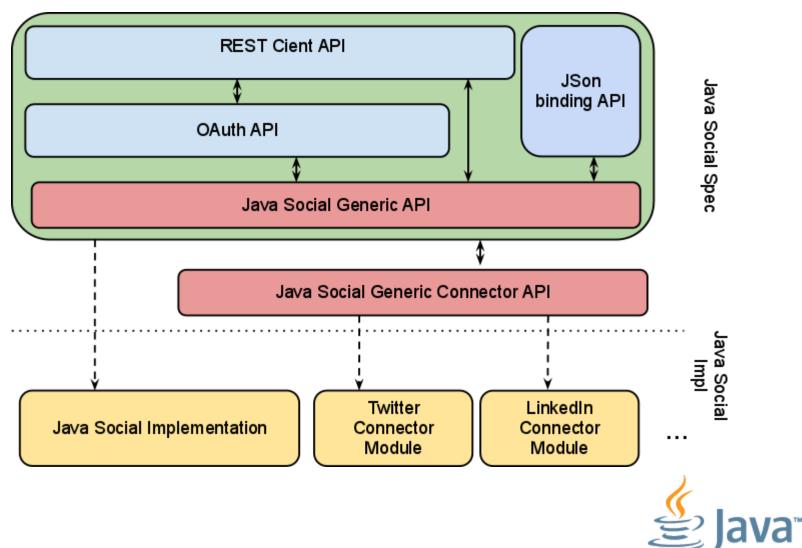


Seam Social – a bootstrap for the API

- A full CDI API to interact with Social Networks
- Developed by Antoine Sabot-Durand (one of the proposed co-Spec Leads)
- Independent of CDI implementation
- A helper for:
 - $_{\circ}$ Consuming REST services
 - Consuming OAuth 1 and 2 services
 - Identification via OAuth
 - JSON binding of Social Services API
- Ready to adopt JSR 351, 353 and JSR 339
- Will move to Apache Delta Spike initiative during 2012



Java Social – a kind of JCA for Social



Community Process

DaliCore – History

- DaliCMS (2006): "Web 2.0 ready CMS"
- Open-source "CMS" with community features
- 2008: integration with Shindig, provides OpenSocial Implementation (JavaScript code from Shindig, Java code in DaliCMS)
- Developed as Glassfish incubator project



DaliCore – CMS

- More than a CMS \rightarrow DaliCore
- Adds functionality common to users, content and permissions on top of Java EE 6.
- Focus on Users and Permissions.
- In about every project that uses DaliCore, users should be able to login with existing credentials (Facebook, Twitter, Google Connect,...)
- Dali modules extend DaliCore



DaliCore – Connect

public abstract class ExternalNetwork

public abstract Response connect(String callback);

public abstract ExternalToken callback(String requestToken, String verifier);

public abstract OnlineAccount
createOnlineAccount(ExternalToken accessToken) throws
DaliCoreException;

ExternalNetwork class is extended by

- FacebookExternalNetwork
- TwitterExternalNetwork
- GoogleExternalNetwork



DaliCore – Integrate

- The User concept in DaliCore can have 0 or more instances of "OnlineAccount"
- In projects created with DaliCore, the administrator/configurator decides what social networks are supported.
- Users can access all functionality using their social network credentials.



Twitter4J – History

 Twitter4J is an unofficial Java library for the <u>Twitter API</u>.
 With Twitter4J, you can easily integrate your

Java application with Twitter.

 Its author, Yusuke Yamamoto now officially working at Twitter. Designated to represent Twitter in Social JSR EG.



Let's talk



