

Introduction to Shindlg & Social applications' development



Agenda

- Introduction to Shindig
- Social applications' development
- Conference development



- Apache Shindig
 - was originally started by Google in 2007
 - Since December 2007, it became an Apache project
- Apache Shindig's objectives
 - Provide an infrastructure to host OpenSocial applications
 - Be language neutral and cover multiple languages
 - Currently, Java and PHP versions are available



- Apache Shindig is a reference implementation of the OpenSocial API specifications versions 0.8.x and 0.9.x
- OpenSocial API is a standard set of Social Network APIs
 - http://www.opensocial.org/page/specs-1
 - It includes:
 - Profiles
 - Relationships
 - Activities
 - Shared applications
 - Authentication
 - Authorization



- Implemented OpenSocial APIs
 - OpenSocial REST
 - OpenSocial RPC (Remote Procedure Call)
 - Javascript



- Apache Shindig exposes four resources
 - people
 - appdata
 - activities
 - groups
- More information can be found at
 - <u>http://shindig.apache.org/overview.html</u>
 - <u>http://sites.google.com/site/opensocialarticles/Home/shindig-rest-java</u>



Introduction to shindig

• REST interface:

Resource	URI	Description
Poeple	/social/rest/people/{guid}/@self e.g. <u>http://localhost:8123/social/r</u>	Profile record for user {guid}
	/social/rest/people/{guid}/@friends	Collection of all friends of user {guid}; subset of @all
	/social/rest/people/{guid}/@all	Collection of all people connected to the user {guid}
	/social/rest/people/{guid}/@all/{pid}	Individual person record for a specific person known to {guid}; shows {guid}'s view of {pid}
	/social/rest/people/@me/@self	Profile record for requestor
	/social/rest/people/{guid}/{groupid}	Collection of all people connected to user {guid} in group {groupid}



Introduction to shindig

• REST interface

Resource	URI	Description
Appdata	/social/rest/appdata/{guid}/@self/{appid}	All app data for user {guid}, app {appid}
	e.g. http://localhost:8123/social/rest/appdata/john.doe	
	/social/rest/appdata/{guid}/@friends/{ap pid}	All app data for friends of user {guid} and app {appid}; read-only (only GET and HEAD supported)}
	/social/rest/appdata/{guid}/@self/{appid} ?fields=count	Just the count field for user {guid}, app {appid}



Introduction to shindig

Installation

- Use OpenSocial Development Environment (OSDE)
 - Can be installed from Eclipse using the update site:
 - <u>http://opensocial-development-</u> environment.googlecode.com/svn/update-site/site.xml
 - A step-by-step installation procedure can be found at:
 - <u>http://sites.google.com/site/opensocialdevenv/user-guide/install</u>

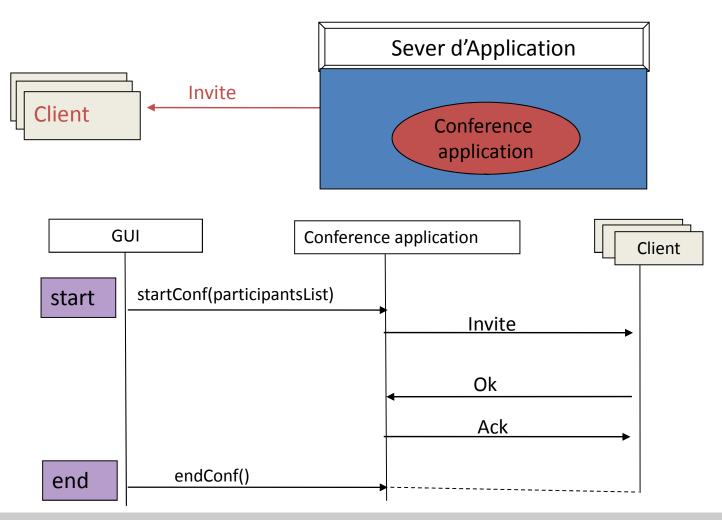


Social applications' development

- A tutorial can be found at:
 - Video: <u>http://code.google.com/p/opensocial-development-environment/</u>
 - http://sites.google.com/site/opensocialdevenv/user-guide/tutorial
- Using the real product
 - Start shindig and add sample data
 - Create a social application
 - Create and execute a REST Java client



Conference development



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Conference development

- Server side
 - An application that will create a conference among given users
 - Uses SIP stack to listen to, receive, process and send SIP messages
 - JAIN SIP
 - SIP Servlet
- Client side
 - Download and use an existing SIP client
 - E.g. X-lite
 - <u>http://www.counterpath.com/x-lite-download.html</u>
- Use JMF for media



How to download JAIN SIP

- API doc and .jar can be downloaded at:
 - <u>http://jcp.org/aboutJava/communityprocess/mrel/jsr032/index.html</u>
- Reference implementation .jar can be downloaded at:
 - <u>http://download.java.net/communications/jain-sip/nightly/</u>
 - Click: "jain-sip-ri/", you can find all nightly build implementations .jar
 - You can also find sdp implementations at the same place
- When implementing a conferencing application using Jain SIP stack, add the two jar files (one api, one impl) to your project:
 - jsip_api_v1.2.jar
 - jain-sip-ri-1.2.xx.jar
 - Tip: you may need log4j-xxx.jar, depending on the sip impl you use. If you have running errors, add log4j-xxx.jar to your project
 - <u>http://www.apache.org/dyn/closer.cgi/logging/log4j/1.2.15/apache-log4j-1.2.15.zip</u>



References

Shindig

• http://shindig.apache.org/

OpenSocial Development Environment (OSDE)

http://code.google.com/p/opensocial-development-environment/

Social application development

- http://sites.google.com/site/opensocialdevenv/user-guide/tutorial
- http://wiki.opensocial.org/index.php?title=Articles_%26_Tutorials
- http://wiki.opensocial.org/index.php?title=Social_Mashup_Tutorial
- http://code.google.com/opensocial http://code.google.com/p/opensocial-resources/

OpenSocialClient Class :

 http://opensocial-java-client.googlecode.com/svnhistory/r88/trunk/java/doc/org/opensocial/client/OpenSocialClient.html

Specifications

http://opensocial.org/ http://groups.google.com/group/opensocial-and-gadgets-spec



References

JAIN SIP tutorial & examples

- java.sun.com/products/jain/JAIN-SIP-Tutorial.pdf
- http://snad.ncsl.nist.gov/proj/iptel/

SIP Servlet sample applications

- http://wiki.glassfish.java.net/Wiki.jsp?page=SipServletProxyExample
- http://www.ibm.com/developerworks/library/wi-sip.html
- http://docs.sun.com/app/docs/doc/820-3007/gfmqz?l=en&a=view