Integrating External Services with Sakai

Jason Shao, Rutgers University

Topics

- General Approaches
- Enterprise Data
- External Services
- © Custom (e.g. "other")

General Approaches

- Tight, Rich, Native
- Loose & Easy

Tight

Implementing services as Sakai Tools

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- easy access to information within sakai like groups, authz, other services

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Loose

Implementing services as... not Sakai Tools

Easier integration with existing services

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- Mix/Match implementation technologies

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- More moving pieces

Decision

Providers

Approaches

- Real-time
- Batch

UserDirectoryProvider

public interface UserDirectoryProvider {

•••

boolean authenticateUser(String eid, UserEdit edit, String password);

boolean authenticateWithProviderFirst(String eid);

boolean findUserByEmail(UserEdit edit,
 String email); }

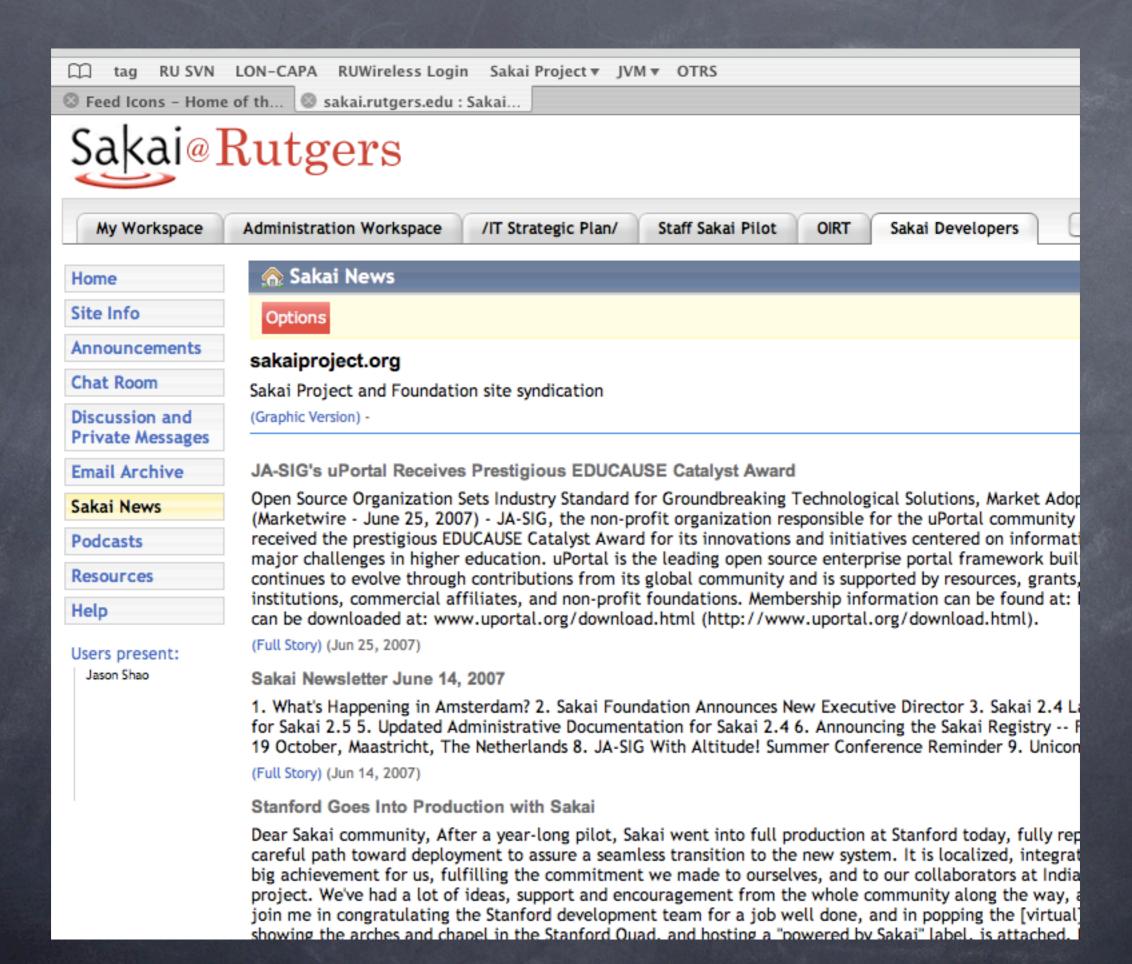
GroupProvider

CourseManagementProvider

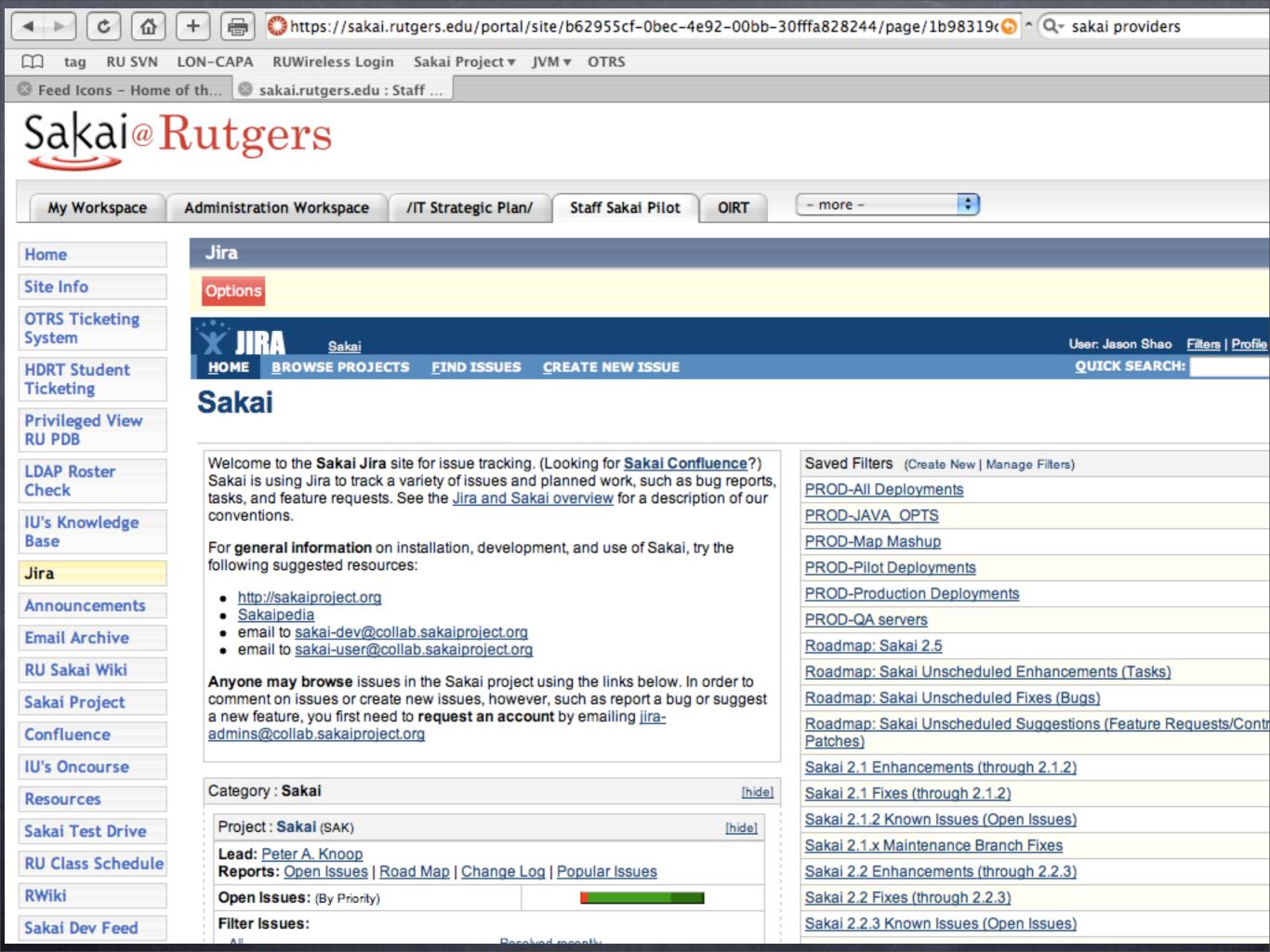
External Services



RSS (ATOM, etc.)



Web Content



LinkTool

- Linktool is intended for calling external applications, e.g. written in PHP.
- It requires the application to be able to do web services calls back to sakai.
- There are two modes: install as tool, and call via URL

Initial Setup

- © Configuration (e.g. \${catalina.home}/sakai
 - sakai.rutgers.linktool.privkey
 - sakai.rutgers.linktool.salt
- SakaiSigning.jws

Usage

- 2 Modes
 - Tool Mode
 - Link Mode

Tool Mode

- 1. Add a new linktool to your site
- 2. use setup to provide a URL
- 3.profit!

Link Mode

https://YOURSITE/sakai-rutgers-linktool? site=XXXXXX&url=https://YOURAPP

Library eReserves Lookup

FIGURE 4

2006:9:01:195:101:01

The Library has material for the following sections.

Because the Library has material for several sections, we give you two options:

- Show ereserves for a single section
- Show students a list of sections, and let them choose.
- O1:195:101 *** All Sections ***
- O1:195:101:01(ALEX) INTRO TO WORLD LITERATURE
- ○01:195:101:H6(ALEX) INTRO TO WORLD LIT

Cancel

Client Work

```
require_once('SOAP/Client.php');
$wsdl=new SOAP_WSDL("$url/
SakaiSigning.jws?wsdl", array("timeout" =>
360));
if (!$wsdl) $myProxy=$wsdl->getProxy();
$result=$myProxy->testsign($_SERVER
['QUERY_STRING']);
 if ($result != "success")
```

Other

Integrating other stuff

Web-services

- Programmatic Access to Sakai Services
- AXIS/SOAP/WSDL based
- Toolkits for Java, .Net, PHP, etc.

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