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EP-LTI Documentation

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Description

Nolaria Consulting (<http://www.nolaria.com>) was contracted by the University of California, Office of the President (through UC Berkeley) to develop software that enables the EtherPad Lite server application to be accessible in a variety of learning management environments, specifically including Moodle, Sakai CLE, and Sakai OAE. A Java servlet was created that implements the IMS Learning Tool Interoperability protocol, v1.0 as an LTI Producer. This implementation uses a shared secret to perform single sign-on using OAuth as an authentication method.

Version Notes

Version	Date	Notes
1	April 17, 2012	Initial version, most functionality.
2	May 15, 2012	Bug fixing, admin functionality.
3	May 31, 2012	Bug fixing.

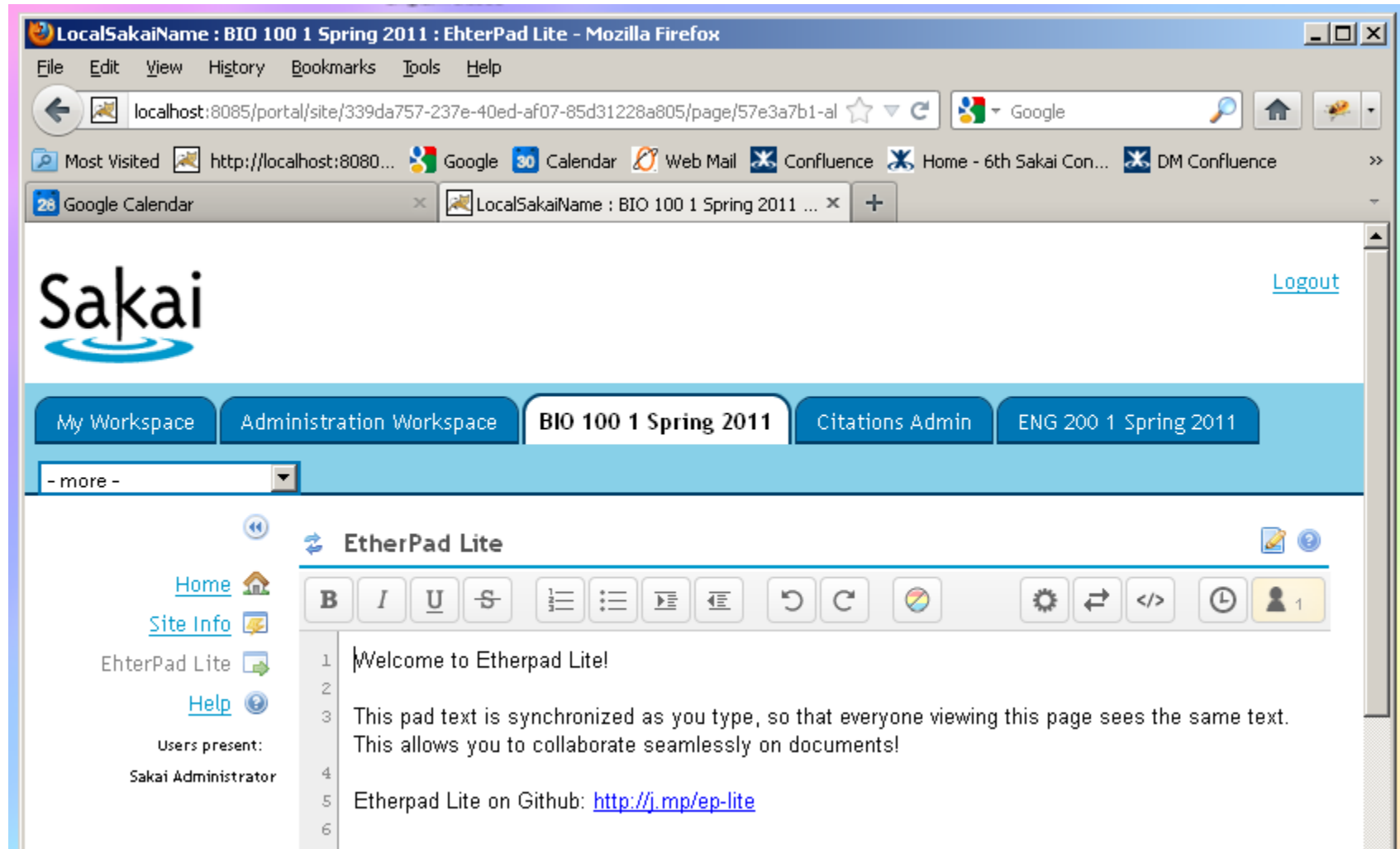
EtherPad Lite LTI Producer

On initial launch, the application (called **EP-LTI**) authenticates using a shared secret. The currently logged in user is passed in the "user_id" parameter. EP-LTI uses the EtherPad Lite (EP-Lite) admin API to add this user id as an EtherPad user id or use an existing one.

On launch, the user is presented with a set of predefined EtherPad documents (called pads).

[Illustration of pad selection]

Clicking on one of these pads opens that pad for collaborative editing, according to EP-Lite functionality.



If the user has a role of "admin", then two administrative functions are added to the pad selection page: created new pad and delete pad.

[Illustration of admin selection page]

To create a new pad, enter its name and press the "Create" button. To delete a pad, click the "Delete" link. Note that there is no confirmation page - pads are immediately deleted.

EP-LTI Settings

The EP-LTI application uses a set of properties to define its run time characteristics. This is a Java Properties file located at TOMCAT/etherpad/apliti.properties.

The following parameters must be set for correct operation:

Name	Typical Value	Notes
oauth.secret	ETHERPAD-LITE-LTI-SECRET	Normally is not changed.
api.key	HkfHcxJVTCMKp5C8PWuSMXYhVzuJ3DHN	Must agree with EtherPad Lite API key on server.
etherpad.url	http://208.113.124.146:9001	URL of EtherPad Lite server.
access.create.roles	Admin,Instructor	Create roles.
access.delete.roles	Admin,Instructor	Delete roles.

The following parameters may be optionally set:

Name	Typical Value	Notes
show.controls	t	If "t", then show EtherPad controls in the editor.
show.chat	t	If "t", then show the chat box with other users online.
show.line.numbers	t	If "t", then show line numbers in the pad document.

LTI Settings

LTI settings vary a bit between consumer implementations, but the following parameters must be set for EP-LTI to function correctly:

Name	Typical Value	Notes
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Remote Tool URL	<code>http://server.edu:8080/eplti</code>	URL for the EP-LTI application.
Remote Tool Key	<code>admin</code>	Tool key to be used.
Remote Tool Secret	<code>ETHERPAD-LITE-LTI-SECRET</code>	Tool secret. Must agree with EP-LTI settings.
Sent User Names	<code>true</code>	Provide user names to the producer application.