



OmniUpdate Training Tuesday

Custom Gadgets



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Front End Developer

WebEx Event # **802 142 617**

Audio will be heard on your computer speakers.

If you do not have working computer speakers,
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Webcast will start at the top of the hour.



AGENDA

- Purpose and Possibilities
- Requirements
- Configuration
- HTML & JavaScript
- Gadget lib tools
- Additional API Possibilities



Let's Take a Look!



Purpose and Possibilities



Purpose

- What is a gadget?
 - Full application
 - Self encapsulated
 - Extends the functionality of OU Campus



Possibilities

- What are the limitations?
 - Exists in iframe
 - Can't directly access the main application context
- What are the possibilities?
 - Any self-contained logic/coded functionality
 - Full use of OU Campus APIs
 - Full use of Metadata API
 - Interaction with main application context via exposed methods in gadget lib



Examples

Bookmarks ? ^

Filter Bookmarks 🔍 +

- Quick Search ...ults (Gallena)
- Images - Gadgets (Gallena)
- Marketplace Home (Gallena)
- Staging: /adm...ages (Gallena)
- Production: /...ages (Gallena)
- /admissions/i... Log (Gallena)

Gallena Pages

- Dashboard (Gallena) - 2
- Dashboard (Gallena) - 1
- Dashboard (Gallena)

+ Bookmark

Notes ?

Public Private

Last mon

Type your note...

John Barry
3/31/17 10:27 PM

Emily said she wanted to redo a por
Hold off for now.

Alok Somani
3/31/17 10:23 PM


Do we need any more changes to th
file before the April deadline?

Home - Image Slider ✕

Gallery Summary

Asset ID	15
Number of images	5
Max thumbnail width	100
Max thumbnail height	100
Thumbnail aspect ratio	Original

Gallery Images



Title Apply Today!

Description

Caption Your education is an investme
the future

Insert

Quick Publish ? ^

Production

Added new image and library
hours for 2015-16.

46/256

Save and Publish



Requirements



Custom Gadget Requirements

- Library Files
 - gadgetlib.js or gadgetlib.min.js
 - jquery
- Gadget Files
 - config.xml
 - index.html
- All files have to be hosted online
- Publish through OU Campus!



Gadget Files

- **config.xml**
 - Standard XML structure
 - Specify gadget configurations
 - MUST exist – it's what OU Campus reads to display the gadget
- **index.html**
 - Main application file
 - HTML, CSS, & JavaScript



Configuration



```
<entry key="option">value</entry>
```

- Title
- Icon
- Description
- Thumbnail
- Types
- Sidebar Context
- Notifications
- Initial Height



HTML & JavaScript



- Standard HTML document
- Include stylesheet links
- Include third party JavaScript source scripts
- Must include JQuery for gadgetlib.js to function
- Must include gadgetlib.js for token handling and loading



Gadgetlib and APIs



- API calls from gadgets require access tokens & environment details
- Gadgetlib is a JS library provided by OmniUpdate that:
 - Handles Environment Details
 - Sets up access token (deactivates after 30 minutes of inactivity)
 - Provides global “gadget” object as API to interact with OU Campus
 - Provides methods to use Metadata API

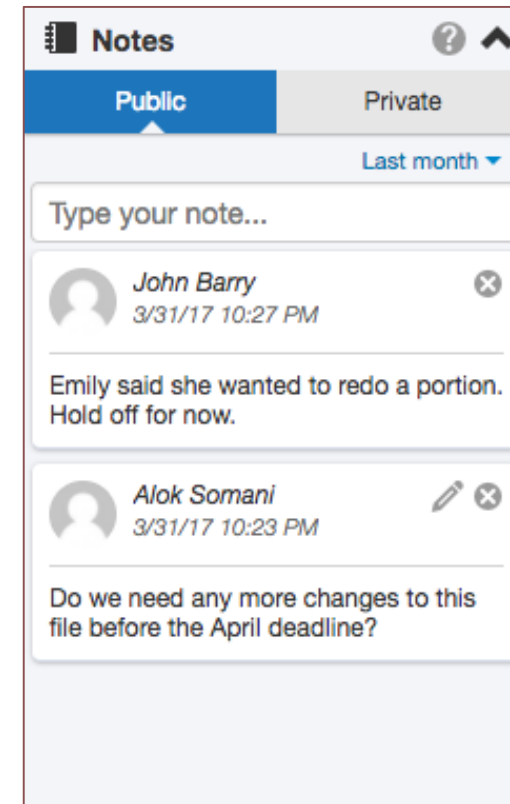
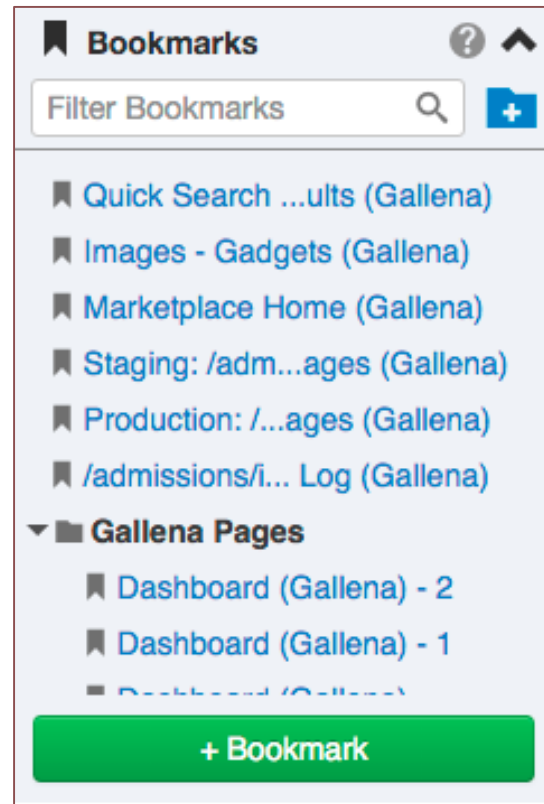


Some methods exposed by the “gadget” object:

- ready
- ouGetCurrentFileInfo
- ouInsertAtCursor
- ouGetCurrentLocation
- ouSetCurrentLocation

Gadgetlib also provides us with methods to use the Metadata API:

- Create
- View
- Update
- Delete
- List





More API



Available APIs

- Gadgetlib Methods
- Metadata API
- OU Campus APIs



Available APIs

developers.omniupdate.com

Users
Delete Users
View User Info
List Users
List User Groups
Reset Failed Login Count
View Token User Info
Update a User
Create a User
Groups
Sites
Auxiliary Sites
Directories
Files
Assets

List Users

Collapse samples >

GET /users/list

Returns a list of user information. (All user levels)

Parameters

Name	Description	Type
count optional	Number of items to retrieve.	integer
start optional	Start record number of the page.	integer

RESPONSE SAMPLE

```
[
  {
    "save_count": 0,
    "image_url": "string",
    "last_login": "2017-12-12T00:43:39.272Z",
    "last_name": "string",
    "last_saved_format": "string",
    "privilege": 0,
    "locked": true,
    "last_saved": "2017-12-12T00:43:39.272Z",
    "first_name": "string",
    "email": "string",
    "account": "string",
    "last_login_format": "string",
    "username": "string"
  }
]
```

RESPONSE SCHEMA



Resources

Gadget Starter: <https://github.com/omniupdate/gadget-starter>

OU Campus APIs: <https://developers.omniupdate.com>



NEXT TRAINING TUESDAY

Next month's Training Tuesday will be held on **January 30th, 2018.**

Stay tuned for what topic we'll be covering.

Be sure to visit the OCN or Support Site
for further details!

<http://ocn.omniupdate.com>

<http://support.omniupdate.com>



Thank you!