OmniUpdate Training Tuesday

Custom Gadgets

WebEx Event # 802 142 617

Audio will be heard on your computer speakers.

If you do not have working computer speakers, call 1-408-792-6300. Enter event number and attendee ID or press # if no attendee ID.

Webcast will start at the top of the hour.

Presented By:
Alok Somani
Front End Developer
AGENDA

- Purpose and Possibilities
- Requirements
- Configuration
- HTML & JavaScript
- Gadget lib tools
- Additional API Possibilities
Let’s Take a Look!
Purpose and Possibilities
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
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!
- **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
- oucGetCurrentFileInfo
- oucInsertAtCursor
- oucGetCurrentLocation
- oucSetCurrentLocation
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**

### List Users

**GET** /users/list

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

#### Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>count</td>
<td>Number of items to retrieve.</td>
<td>integer</td>
</tr>
<tr>
<td>start</td>
<td>Start record number of the page.</td>
<td>integer</td>
</tr>
</tbody>
</table>

**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_logina_format": "string",
    "username": "string"
  }
]
```

**RESPONSE SCHEMA**
Gadget Starter: https://github.com/omniupdate/gadget-starter

OU Campus APIs: https://developers.omniupdate.com
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!