



UCLA David Geffen School of Medicine

OACS Hub & OACS Connect

A CTRL Project for the OpenACS Community
Presented by Josue Cardona



- Thanks to the good reception we had on the presentation for “Leveraging OpenACS packages to build a mobile application API backend” at the conference in 2023 we have created a version of these packages that we would like to share with the community.
- OACS Hub is the backend manager, that is composed from several independent OpenACS packages using bootstrap5 and jQuery.
- OACS Connect is the mobile application that can be used as an example on how to implement the backend API to build your own.
- We are also releasing Tile examples to give more ideas on how it can be used so you can build a new one.

OACS HUB

Tiles Administration:



News



Videos



Ideas

Access Administration:



Groups



Tiles



Associate Groups/Tiles

What can we do in the backend?

- Base Tile Attributes
- Tile Creation
- Tile Management
- Group/User Association
- Group/Tile Association
- REST API Management
- JWT Setup



Base Tile Parameters

Dac

_dac_appCode	<input type="text"/>	<small>(?) This is unique identifier for the appCode – defaults refName_\$instance_id</small>
_dac_appDescription	<input type="text" value="f"/>	<small>(?) General description of the app</small>
_dac_appDisplayInformation	<input type="text"/>	<small>(?) The information that gets displayed to the user for the Tile</small>
_dac_authTokenP	<input type="text" value="f"/>	<small>(?) Whether the tile requires to pass the auth token</small>
_dac_deployableP	<input type="text" value="f"/>	<small>(?) Whether the tile is ready to be deployed</small>
_dac_deprecatedP	<input type="text" value="f"/>	<small>(?) Whether this tile is deprecated</small>
_dac_helpUrl	<input type="text"/>	<small>(?) Help url for each tile</small>
_dac_localStoreP	<input type="text" value="f"/>	<small>(?) Whether the tile has it's own local store</small>
_dac_pushNotificationP	<input type="text" value="f"/>	<small>(?) Whether the tile is going to be using push notifications</small>
_dac_refPackageId	<input type="text"/>	<small>(?) Package Id of the package that handles the tile information on the backend</small>
_dac_tileBackgroundColor	<input type="text" value="blue"/>	<small>(?) The background color of the tile</small>
_dac_tileBackgroundImageUrl	<input type="text"/>	<small>(?) The background image of the tile</small>
_dac_tileIcon	<input type="text"/>	<small>(?) The icon to display</small>
_dac_tileLabelColor	<input type="text" value="white"/>	<small>(?) The label color of the tile</small>
_dac_tilePriority	<input type="text" value="0"/>	<small>(?) The order to display the tile in the frontend</small>
_dac_tileTitle	<input type="text"/>	<small>(?) Label for the icon</small>

Tile Creation

Services Provided

- Provides service tile--office-space, version 1.0.1d

Services Required

- This package does not require any services.
- Add a service required by this package

Services Extended

- Extends service dgit-base-tile, version 1.3.0 (remove)
 - Provided by DGIT Base Tile, version 1.3.0
- Add a service extended by this package

Services Embedded

- This package does not embed any services.
- Add a service embedded by this package



Tile Management

Tile Manage Page

- Module Name: tile--generic
- Version #: 1.0.1d
- Last Modified: 04/11/2024

[Internal Tile Properties \(DATI\)](#)

[User Customizable Properties \(DATC\)](#)

[Inherited Tile Properties \(DAC\)](#)

Property	Default	Is Extended	Extended Ref	Value	Actions
appCode		Yes	DGIT Base Tile	tile--generic	Edit
appDescription		Yes	DGIT Base Tile	Generic tile	Edit
appDisplayInformation		Yes	DGIT Base Tile	This is a generic tile	Edit
authTokenP	f	Yes	DGIT Base Tile	f	Edit
deployableP	f	Yes	DGIT Base Tile	t	Edit
deprecatedP	f	Yes	DGIT Base Tile	f	Edit
helpUrl		Yes	DGIT Base Tile		Edit
localStorageP	f	Yes	DGIT Base Tile	f	Edit
pushNotificationP	f	Yes	DGIT Base Tile	f	Edit
refPackageId		Yes	DGIT Base Tile		Edit
tileBackgroundColor	blue	Yes	DGIT Base Tile	blue	Edit
tileBackgroundImageUrl		Yes	DGIT Base Tile		Edit
tileIcon		Yes	DGIT Base Tile		Edit
tileLabelColor	white	Yes	DGIT Base Tile	white	Edit
tilePriority	1	Yes	DGIT Base Tile	1	Edit
tileTitle		Yes	DGIT Base Tile	Generic tile	Edit

Tile Management

Tile Manage Page

- Module Name: tile--generic
- Version #: 1.0.1d
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Internal Tile Properties (DATI)

User Customizable Properties (DATC)

Inherited Tile Properties (DAC)

Property	Default	Is Extended	Extended Ref	Value	Actions
webViewUrl		No		https://google.com	Edit

Group/User Association

Group User Management

Add Group

Search User

25 entries per page

Search:

Name	No. of Users	Automatically Added	Manually Added	Exclusion List	Actions
DemoGroup	0	0	0	0	Edit Delete
Public	0	0	0	0	Edit Delete
Testing	1	0	1	0	Edit Delete

Group/User Association

Group Name: Public

[Assign User To the Group](#) [Go Back](#) Mode Filter: All Manual Automatical Exclusion

25 entries per page Search:

First Name	Last Name	Email	Screen Name	Mode	Actions
Josue	Cardona	jcardona@mednet.ucla.edu		Manually	Exclude Remove

Showing 1 to 1 of 1 entry

« < 1 > »






Group/Tile Association

Associate Groups / Tiles

Groups Tiles

25 entries per page

Search:

	Group	◆ No. of Users	◆ No. of Tiles	◆ Actions
	DemoGroup	0	0	Manage Tiles
	Public	0	1	Manage Tiles
	Testing	1	1	Manage Tiles

Group/Tile Association

Tiles for group Public

Tiles

- Tile Alerts (tile--alerts)
- Tile Connect Videos (tile--connect-videos)
- Tile Generic (tile--oacs-conf)
- Tile Ideas (tile--ideas)

Submit

Close



REST API Management

[Add RESTFUL WS | Save WS Spec | Load WS Spec | Manage OAuth Tokens | JWT Tokens Setup | Generate Token for Current User]

[Test | Show Doc | Edit | Delete] **(GET) app/info**

Get app version info - Returns the app version information

[Test | Show Doc | Edit | Delete] **(GET) app/main/tile/info**

Get Tile Info - Returns the properties for the tile selected (DAC, DATI, DATC)

[Test | Show Doc | Edit | Delete] **(GET) app/main/tile/list**

Get Tiles List - Returns the list of tiles for the latest app

[Test | Show Doc | Edit | Delete] **(POST) app/main/user/login**

Get User Info - INPUT: user (the user username or email), password. OUTPUT: sample {"response_code":"Ok","response_message":"User found","response_body":

```
{"name":"Huang,Khy","uclaID":"100855677","firstName":"Khy","lastName":"Huang","email":"KHuang@mednet.ucla.edu","jwtToken":"token";}}
```

[Test | Show Doc | Edit | Delete] **(POST) app/main/user/profile**

Creates or updates user profile information - Will create the extra properties for the user profile, department, office_location, mobile_phone
Returns response_code = "Ok" if success updated/created Returns response_code = "Error" if fails updated/created, see backend logs to know the reason

[Test | Show Doc | Edit | Delete] **(GET) app/main/user/tile/list**

Get User Tile Llist - Returns the list of tiles for the user based on the group/tile relationship

REST API Management

Add/Edit WS Entry

URL: *

Method *

Name *

Hide these parameters from UI

procedure *

Requires OAuth Authentication *

Yes
 No

Logs the web service calls *

No
 Yes

Procedure self handles the errors *

Yes
 No

Document *



JWT Setup

JWT Tokens Setup

Client ID: *

D0BBA31D340271BEC0B862DB844A12D1822DF45

JWT Type: *

Shared Secret

Public/Private Key

Public Key: *

Private Key:

JWT Algorithm: *

-- Select --

Token Expiration
Default (In
Seconds): *

999999

Registered Claims

Issuer (iss):

OACSHUB

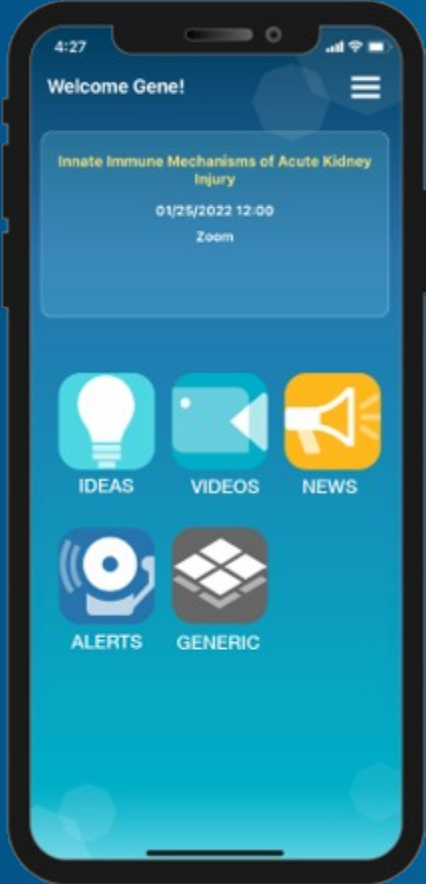
Subject (sub):

Audience (aud):

Save



OACS Connect



Ideas Tile

Share your ideas with your community!
Comment on and rate ideas shared by your colleagues.



We welcome your ideas!

Category

Select a category... ▾

Subject

Details(optional)

Notify me when a comment is made

Cancel Submit

Home Idea Details Info

1 votes

1 thumbs up 0 thumbs down

Improving the DGIT Connect app

By Gene Lacson
Created 2022-01-11 08:58:10 AM
Category: General

Details

Any ideas on how to improve the DGIT Connect app? We'd love to hear from you!

Thumbs up Thumbs down Comment

Submit Cancel

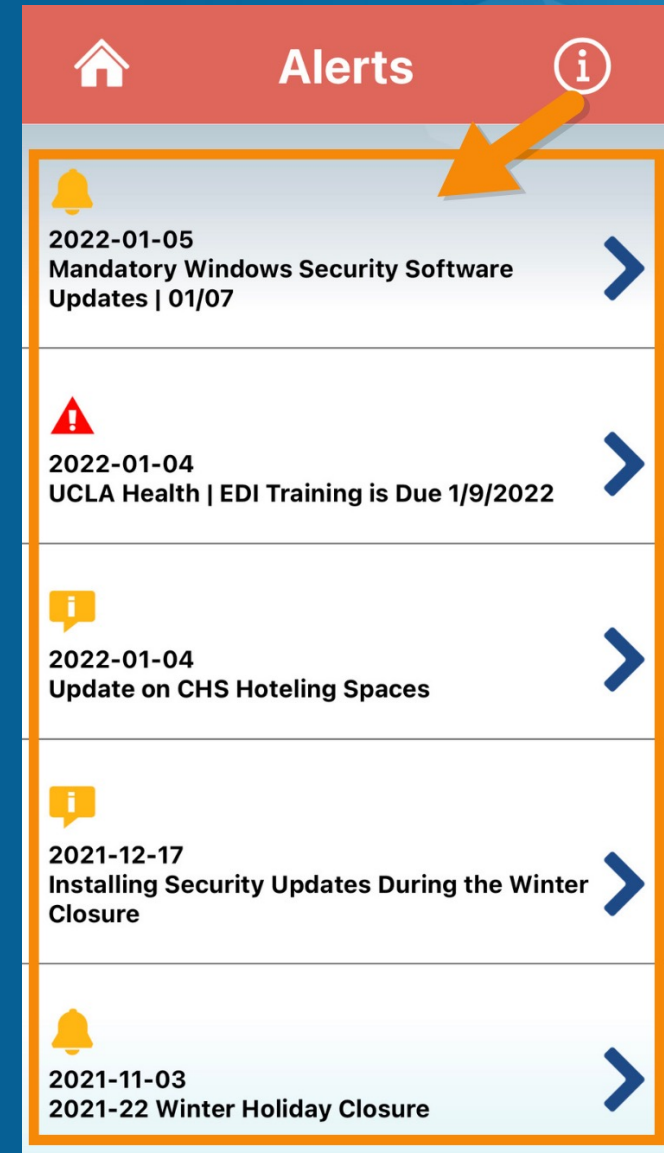
Comments: 1

date: 2022-01-11
by: Cole Galicinao

The app looks great! Perhaps the digest information on the app home page can also include the day of the week (i.e. Tuesday, Jan. 11).

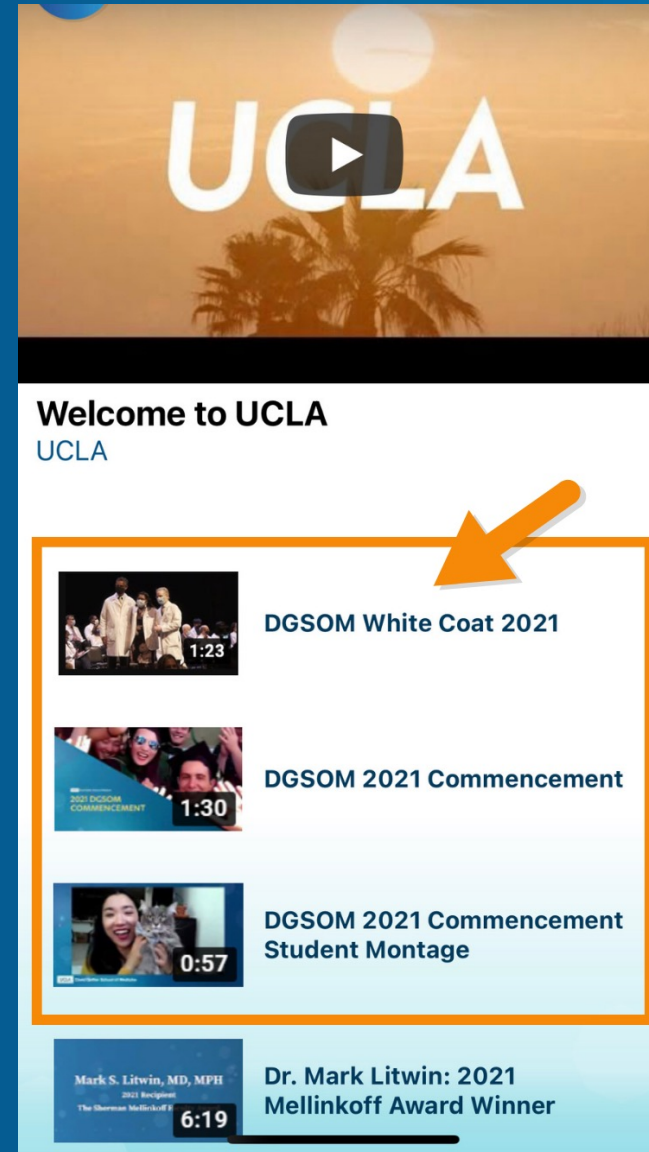
News Tile

See messages from related events and occurrences affecting your community



Videos Tile

Watch from a library of YouTube videos for the community, prepared by anyone in your group.



The image shows a YouTube video tile for UCLA. At the top, there is a large orange play button icon with the text 'UCLA' in white. Below this, the text 'Welcome to UCLA' and 'UCLA' is displayed. A large orange arrow points to a highlighted section containing three video thumbnails. The first thumbnail is titled 'DGSOM White Coat 2021' with a duration of 1:23. The second is 'DGSOM 2021 Commencement' with a duration of 1:30. The third is 'DGSOM 2021 Commencement Student Montage' with a duration of 0:57. Below this highlighted section is another video thumbnail titled 'Dr. Mark Litwin: 2021 Mellinkoff Award Winner' with a duration of 6:19.

UCLA

Welcome to UCLA
UCLA

DGSOM White Coat 2021
1:23

DGSOM 2021 Commencement
1:30

DGSOM 2021 Commencement Student Montage
0:57

Dr. Mark Litwin: 2021 Mellinkoff Award Winner
6:19

Generic Tile

Show any URL in a WebView container



The screenshot shows a mobile application interface with a purple header bar containing a home icon, the word "Digest", and an information icon. Below the header, there is a "HEADLINES" section with a blue icon. A "COVID-19 On-Site Case Location Dashboard" link is visible. The main content area is titled "CME COURSES" with a purple icon. An orange box highlights this section, with an orange arrow pointing to it from the right. The "CME COURSES" section lists four items, each with a date and time, and a calendar icon with the number 17 and a green arrow. The items are: "15th Annual UCLA Liver Diseases Symposium" (January 22, 2022 7:45 AM), "Student-Athlete Healthcare Summit: Understanding and Addressing Barriers to Health Equity" (January 27, 2022 7:00 AM), "8th Annual Western Interventional Next Gen Symposium (WINGS)" (February 26, 2022 7:00 AM), and "UCLA Orbital Center and Skull Base Program - Master's Symposium and Dissection Workshop" (March 04, 2022 7:00 AM). Below the highlighted section, the text "47th Annual UCLA State-of-the-Art Urology" is visible.

Resources

OACS Hub Packages

<https://github.com/JCardonaCTRL/oacs-hub>

OACS Connect App

<https://github.com/JCardonaCTRL/oacs-connect>



OACS Hub Demo Site

<https://oacs-hub.visual.ucla.edu/>

And still a lot more to do...

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THANK YOU.