

uPortal 5:

The Path Forward

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“This is still a great adventure” -- Thierry Koscielniak

- 
- uPortal Committer since 2004
 - uPortal Steering Committee
 - Apereo Fellow 2014
 - Software Architect @Unicon

Agenda

- **uPortal-start**
- uPortal 5 for End Users
- uPortal 5 for Developers & Administrators
- uPortal Ecosystem
- uPortal 5.1 & Beyond

But First, a Brief Look Behind...

Important enhancements in uPortal 4.1 - 4.3

- Responsive Design
- **Multi-tenancy**
- 6-column layout option
- Improvements to admin interfaces
- Performance improvements

uPortal-start

What is `uPortal-start`?

- `uPortal-start` is a Git repository: <https://github.com/Jasig/uPortal-start>
- `uPortal-start` is new for uPortal 5
- It is the *gateway through which* you implement uPortal 5
- With it, you can create & maintain:
 - Your configuration
 - Your data
 - Your skin
 - Your deployments
- It includes a **suite of CLI tools** for managing these things
- You no longer need to *fork*, *modify*, or *build* core uPortal source files
- Everyone uses the same uPortal binaries, built & published by Apereo

(But it is still 100% possible to produce & use a private release of uPortal)

README .md


- The **README** file contains comprehensive instructions for working with `uPortal-start`
- <https://github.com/Jasig/uPortal-start>

cousquer UP-4995 fix spellings in french doc 5be688f 2 days ago

1 contributor

297 lines (209 sloc) | 14 KB

Raw Blame History



build passing

À propos d'uPortal-start

uPortal-start est le mécanisme grâce auquel des individus ou des institutions adoptent et installent [Aperio uPortal](#), le framework open-source et leader en solution de portail d'entreprise, développé par et pour l'enseignement supérieur, les lycées et collèges et les communautés de Recherche. **uPortal-start est une nouveauté d'uPortal 5.0**

uPortal-start va vous aider à gérer:

- votre configuration d'uPortal
- votre Skin uPortal
- vos données dans uPortal
- et vos déploiements d'uPortal au travers d'outils en interface en ligne de commande (CLI)

Prérequis

Les logiciels suivants sont requis pour travailler avec uPortal-start :

- un [Java Development Kit](#) (JDK)
- un [Client Git](#) approprié à votre OS

Télécharger et installer la **dernière release JDK 8**. Assurez-vous que ce soit le JDK ; *un JRE n'est pas suffisant !*

⚠ Utiliser toujours Git pour obtenir une copie d'uPortal-start. (Ignorez *svp* l'option *Download ZIP* proposée par GitHub.) La communauté de développeurs d'uPortal font des améliorations à uPortal-start chaque semaine : des nouvelles fonctionnalités, des fixes de bug, des améliorations de performance, des ajouts de documentation, & *cie* Il est extrêmement

e688fe8374a9e62ed3d359409b9ea3c89ae967 votre copie locale de uPortal-start et (par conséquent) de bénéficier de ces contributions.

uPortal 5 for End Users

New Standard for Accessibility

- uPortal 5 implements the **WCAG 2.0 Level AA** accessibility guidelines
- Significant auditing effort late 2016 - early 2017
- Significant number of (mostly minor) items remediated
- Applies to uPortal itself & all bundled content modules (portlets)

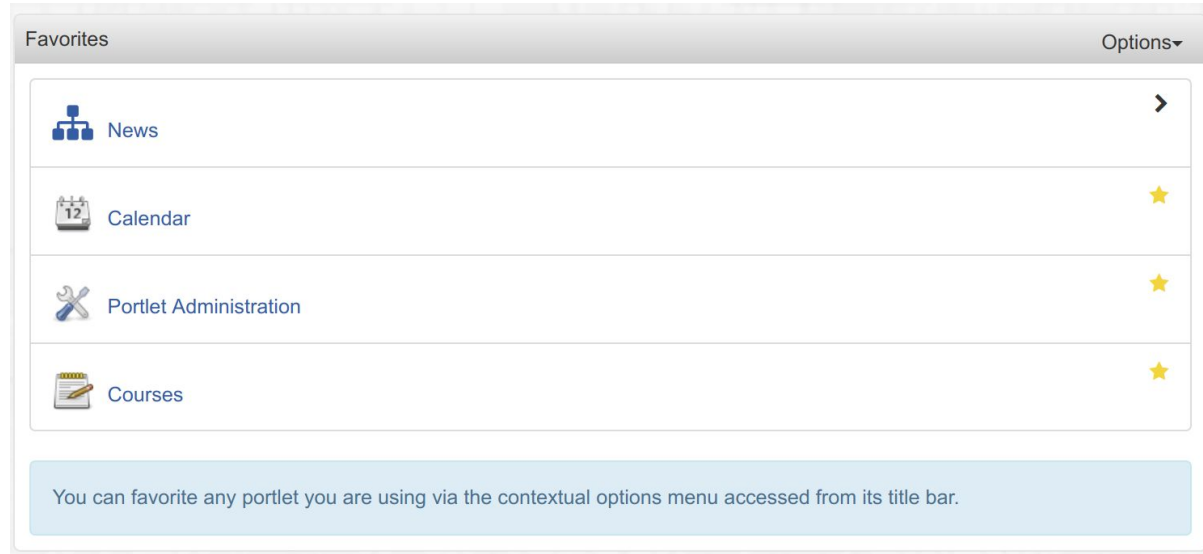
RÉFÉRENTIEL GÉNÉRAL D'ACCESSIBILITÉ POUR LES ADMINISTRATIONS (RGAA) VERSION 3 2017

<https://references.modernisation.gouv.fr/rgaa-accessibilite/>



Favorites portlet

- Added icons
- (Starts added later)



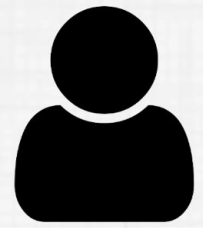
The screenshot shows a portlet titled "Favorites" with a title bar containing "Favorites" on the left and "Options" with a dropdown arrow on the right. The main content area is a list of four portlets, each with an icon, a text label, and a star icon on the right side:

- News**: Icon of three blue squares arranged in a triangle, with a right-pointing arrow icon on the far right.
- Calendar**: Icon of a calendar page showing the number 12, with a yellow star icon on the far right.
- Portlet Administration**: Icon of crossed wrench and screwdriver, with a yellow star icon on the far right.
- Courses**: Icon of a notepad with a pencil, with a yellow star icon on the far right.

At the bottom of the portlet, there is a light blue informational box with the text: "You can favorite any portlet you are using via the contextual options menu accessed from its title bar."

Tip #4: New portlets can be added to your layout by clicking on 'Customize'

Your feedback is important to us!



User Administration



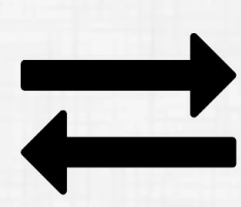
Group Administration



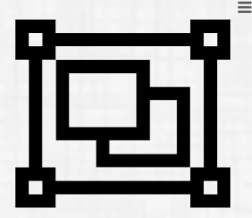
Portlet Administration



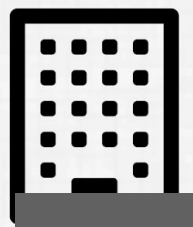
Permission Administr...



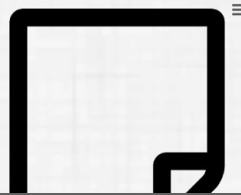
Import and Export



DLM Fragment Admi...



New Admin Dashboard



Emergency Alert Ad...



Resource Aggregatio...



Cache Administration



Audit DLM Fragments

Principals and Categories

Principals

Edit Principals 

Browse? 

Subscribe? 

Configure? 

 Authenticated
Users







Categories

Edit Categories 

•  News

Lifecycle Management

Option	State	Description
	Created	Created
	Approved	Reviewed and approved for production
	Published	In production
	Expired	Might need it later, but not using it now

Manage **CONFIGURE** permission directly in the Portlet Manager

Other User-Facing Items

- Add more & better mobile icons
- Use **AlternativeMaximizedLink** in SiteMap for portlet that define one
- Increase size of flyout toggle button
- Add a lock icon ('fa fa-lock') to the portlet chrome of portlets that may not be moved due to DLM restrictions
- Handle text overflow in portlet title
- Add sign in, create user, and sign out icons
- **63 bug tickets resolved!**

uPortal 5 for Developers & Administrators



Principal aim of implementer-facing changes in uPortal 5

What does “Easy” mean?

- Reduce the *Learning Curve* -- make it easier for **new developers** to work with
- Easier to **set up** locally
- Easier to **configure** your implementation choices
- Easier to apply your **skin**
- Easier to develop **new content components**
- Shorten the Delivery Pipeline -- make it easier to **deploy**
- Easier to run in **the Cloud**
- Easier to **update**

If we accomplish these aims, you will be radically *more productive* and *more successful* with uPortal 5 than with any previous version.

Documentation *En Français*

- *Merci beaucoup* to **Christian Cousquer** & **Julien Gribonvald**
- Available for both **uPortal** & **uPortal-start**

<http://jasig.github.io/uPortal/fr/>

Documentation uPortal

NOTE : Cette partie est en construction. Son intention est de servir de base pour la documentation d'uPortal version 5.0 (sortie fin 2017) et supérieures. Les documentations pour les versions antérieures sont disponibles dans [Confluence](#). Référez vous à *Documentation des précédentes versions [en]* ci-après.

W3C WAI-AA WCAG 2.0 Statistiques des Issues code style Google discover soffits discover portlets

Version	Linux	Windows	Couverture	Dépendances
uPortal 5.1	build passing	build passing	coverage 23%	dependencies unknown
uPortal 5.0	build error	build passing	coverage 23%	
uPortal 4.3	build passing	build passing	coverage 22%	N/A

Impliquez-vous	Accès
Signalez un Bug	issue tracker Jira
Demandez une fonctionnalité	issue tracker Jira
Contribuez au Code	contributing guide
Rejoignez nos conversations	chat on gitter IRC #jasig-uportal Follow 156

Sections

- [Build / Déployer uPortal](#)
- [Implémenter uPortal](#)
- [Administration Système d'uPortal](#)
- [Guide du développeur](#)
- [Navigateurs Web supportés](#)
- [Accessibilité](#)
- [Contributeurs au projet](#)

Liens externes

New Build System

- Build tools in use
 - **Before:** Ant & Maven
 - **After:** Gradle
- Build tools requiring download & install
 - **Before:** Ant & Maven
 - **After:** [None]

- Easier to use & understand
- More flexible

```
$ ./gradlew overlays:CalendarPortlet:tomcatDeploy
```

- More powerful

```
$ ./gradlew tomcatStart
```
- Much, much faster!



Simple Setup Process

Prerequisites:

- JDK 8
- Git client

```
$ git clone \
  https://github.com/Jasig/uPortal-start.git

$ cd uPortal-start

$ ./gradlew portalInit portalOpen
```

The screenshot displays the uPortal web interface. At the top right, there are links for 'Sign In' and 'New User?'. A search bar is located below these links. The main header features the 'uPortal' logo and a 'Welcome' button. A tip box states: 'Tip #4: New portlets can be added to your layout by clicking on 'Customize''. The main content area is divided into several portlets:

- Welcome to uPortal:** Contains the text 'What is uPortal?' and a paragraph describing uPortal as a free and open source Java-implemented web portal platform. It also includes a 'Welcome to uPortal.' message.
- uPortal Links:** A list of links including 'uPortal Home', 'uPortal 5 Documentation', 'Download uPortal', 'uPortal Wiki', 'Join mailing lists', 'Become an Apereo Foundation member', 'uPortal commercial services and support', 'Apereo newsletter', 'uPortal-driven sites', 'uPortal Issue Tracker', and 'Browse additional portlets'.
- Logging in:** Contains the text 'How and why to log in' and a paragraph explaining that uPortal can aggregate and present content for unauthenticated users. It also includes a table of example users.
- Portal Activity:** Contains a section titled 'WHO'S VIEWING' with a bar chart showing the number of users viewing the page for different time periods: NOW (0), TODAY (0), and YESTERDAY (0).

At the bottom of the page, there is a section titled 'PEOPLE ARE SEARCHING FOR'.

Simple, Succinct Skinning Process

- Use `uPortal-start` to create a new skin:

```
$ ./gradlew skinGenerate -DskinName=<name>
```

- Edit the contents of `skins/respondr/<name>/less`:
 - `variables.less` -- colors, backgrounds, borders, etc.
 - `skin.less` -- override style rules as needed
- `uPortal-start` automatically compiles LESS sources from Bootstrap, uPortal, and your custom skin whenever you build

Baked-in Tomcat Configuration

- **uPortal-start** can obtain Tomcat as a dependency from Maven Central
- It installs Tomcat (within the project)
- It applies libraries & configuration for uPortal:
 - JAR files in **shared/lib/**
 - Changes to files in **conf/**
 - JVM arguments (e.g. memory settings)
- The CLI provides **tomcatStart** & **tomcatStop**
- It also provides **tomcatTar** & **tomcatZip**
- This feature changes Tomcat configuration from an individually-managed activity to a **community managed** activity
- This feature is optional (but highly recommended)



New Configuration Patterns

- uPortal 5 approaches configuration in a new way; it's a *significant departure* from the past
- Environment-specific settings are *no longer* “baked-in” during the build process
- There are two primary types of configuration:
 - **Java properties** may be overridden with special properties files in the **PORTAL_HOME** directory
 - `global.properties`
 - `uPortal.properties`
 - `[calendar.properties]`
 - **Spring beans** may be introduced into the application context; once there, uPortal will find them and use them appropriately

Package Once, Deploy Anywhere

- Because uPortal 5 builds are not environment-specific, you are free to deploy the same build to **DEV**, **TEST**, **PROD**... *anywhere!*
- Use **tomcatTar**, **tomcatZip**, or (even better) leverage the Docker support included with **uPortal-start**



docker

uPortal-start knows how to build Docker images:

- **uportal** is the web server-only image
- **uportal-cli** includes the CLI tools
- **uportal-demo** is a demonstration (a.k.a. “quickstart”) version of the portal

```
$ docker run -it -p 8080:8080 apereo/uportal-demo
```

The screenshot shows the GitHub interface for the repository `apereo/uportal-demo`. The repository is public and has 4 stars and 6 pulls. The interface includes a search bar, navigation links for Repositories, Teams, Billing, and Settings, and a 'Create Repository' button. The repository list shows two entries: `apereo/cas` (48 stars, 100K+ pulls) and `apereo/uportal-demo` (4 stars, 6 pulls).

Repository	Stars	Pulls	Details
<code>apereo/cas</code> public	48	100K+	DETAILS
<code>apereo/uportal-demo</code> public	4	6	DETAILS

Introducing Soffits

- New standard for pluggable content in uPortal based on HTTP
- No complicated request lifecycle
- Friendly to modern development frameworks (e.g. **Spring Boot**)
- Not required to run inside uPortal's Tomcat container
- Not required to run inside the uPortal Java process
- No build, deploy, & restart required to see changes in development
- No need to stop and restart a running service to add new modules
- Not required to be Java-based
- Front-end technology agnostic

Soffit Sample Applications: <https://github.com/uPortal-Project/soffit-samples>



- Hypertext documentation for uPortal REST APIs
- Simple UI for invoking APIs and inspecting responses
- **23 APIs available!**

Swagger interface showing API documentation for the `layout-rest-controller`.

default (v2/api-docs) [Explore](#)

Api Documentation

Api Documentation

[Apache 2.0](#)

ajax-success-controller : Ajax Success Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

channel-list-controller : Channel List Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

entities-rest-controller : Entities REST Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

fragment-list-controller : Fragment List Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

group-rest-controller : Group REST Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

import-export-controller : Import Export Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

layout-json-v-1-rendering-controller : Layout Json V 1 Rendering Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

layout-json-v-43-rendering-controller : Layout Json V 43 Rendering Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

GET /v4-3/dlm/layout.json [renderRequest](#)

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	OK		
401	Unauthorized		
403	Forbidden		
404	Not Found		

[Try it out!](#)

layout-rest-controller : Layout REST Controller [Show/Hide](#) | [List Operations](#) | [Expand Operations](#)


uPortal Ecosystem

WIP: Issue #90: Bundle uPortal-home with uPortal-start

[Edit](#)


#84

 **Open** apetro wants to merge 9 commits into `master` from `add-uportal-home`

 Conversation **17**

 Commits **9**

 Files changed **9**

+222 -0 



apetro commented on Dec 6, 2017 • edited by vertein ▾

Owner + 😊 ✎ 🗨

Work in progress.

Checklist

- the [individual contributor license agreement](#) is signed
- commit message follows [commit guidelines](#)
- tests are included
- documentation is changed or added
- [message properties](#) have been updated with new phrases
- view conforms with [WCAG 2.0 AA](#)

Reviewers



 drewwills



 bjagg



Assignees



No one—assign yourself

Labels



work in progress

Projects




None yet

Milestone



No milestone

Notifications

 **Unsubscribe**

You're receiving notifications because you were mentioned.

6 participants



bpowell commented on Dec 7, 2017

Contributor + 😊 ...

Is there a version in maven central for uPortal-home?



ChristianMurphy commented on Dec 7, 2017

Member + 😊 ...


Bundle uPortal-home

<https://search.maven.org/#search%7Cga%7C1%7Ca%3A%22uportal->

And the WIP JavaScript only unofficial release:


https://search.maven.org/#search%7Cga%7C1%7Ca%3A%22uportal__home%22

Email Preview Demo




Launch full app

Weather




Launch full app

Bookmarks




Launch full app

The Chronicle: Wired Campus



Launch full app

Calendar



Launch full app


Add to home

Apereo theme

uPortal-home Next Steps

A few improvements we hope to make soon to **uPortal-home** in uPortal 5:

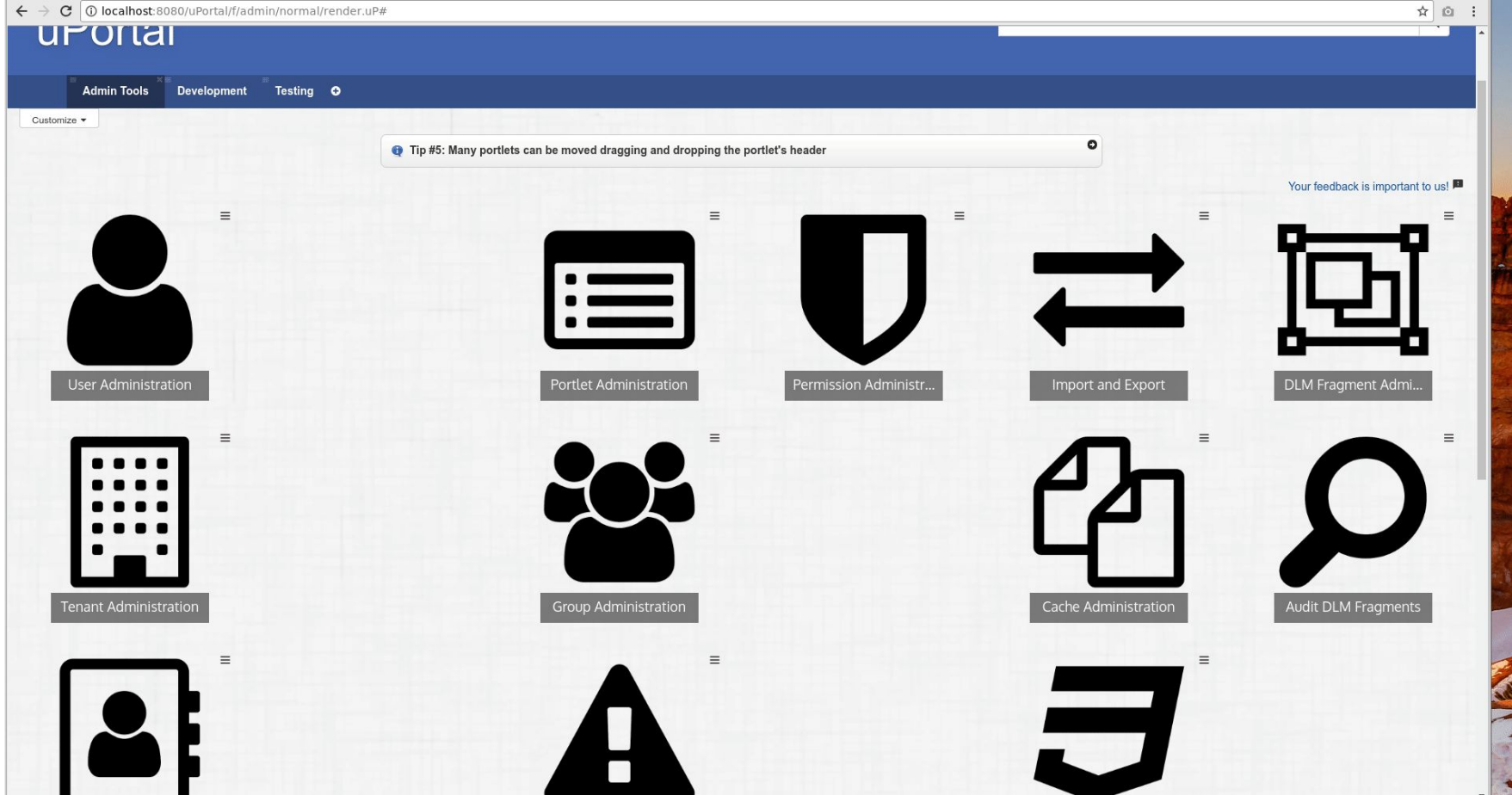
- WCAG 2.0 Level AA accessibility
- Supporting data in **quickstart**
- Support for *Widgets*

uPortal 5.1 & Beyond

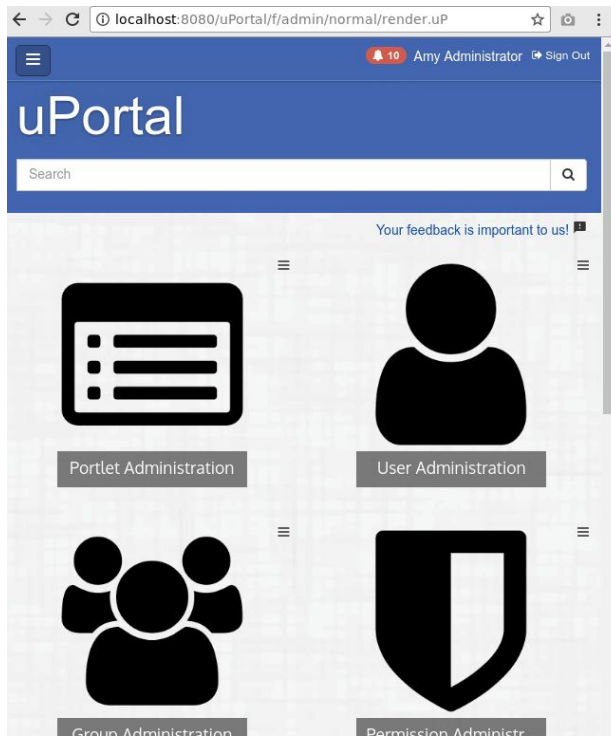
Coming in uPortal 5.1 & Beyond

- Layout options based on CSS Flexbox
- Updated, REST-based sitemap portlet
- Content matching strategies based on **contextual information** and/or **Learning Analytics** data

uPortal 5.1 available perhaps as early as late February!



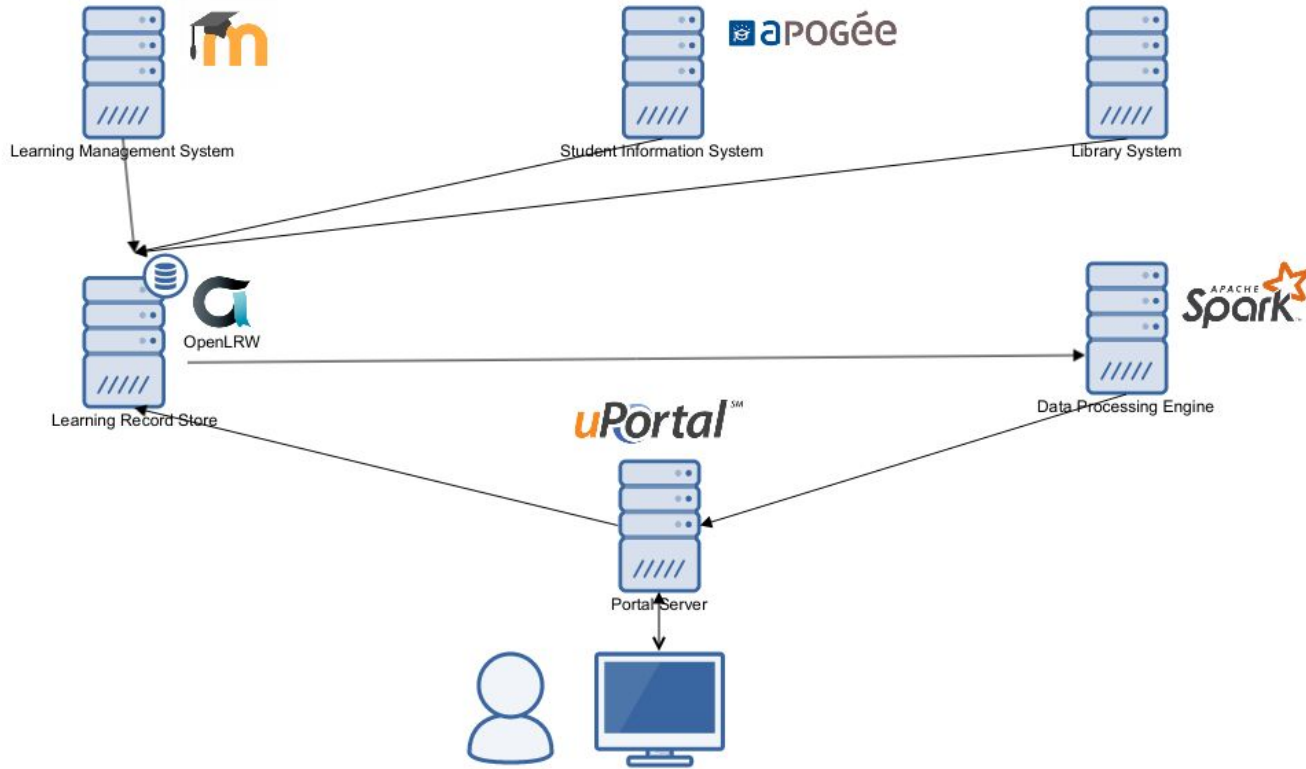
uPortal *Classic* columns with unmatched portlets



Layout options based on CSS Flexbox

DLM Enhancements: Content Matching Strategies


- Choose user-specific fragment content based on pluggable strategies
- Leverage user attributes, group affiliations, portlet metadata, and even **Learning Analytics data**
- Based on collaboration between three systems/components:
 - **Learning Record Store**
Captures learning data from the portal & other sources based on xAPI or IMS Caliper
 - **Data Processing Engine**
*Evaluates data from the LRS to correlate portal content with **user attributes & group affiliations** based on **pluggable algorithms***
 - **uPortal Server**
Is both one provider of LRS data and the consumer of correlations from the Data Processing Engine*



“How can we use data to guide students to the things perhaps they out to look at?” -- Michael Webb, Jisc

Recommended


Campus Shuttle



On Time **Next Shuttle: 3pm**

[View Schedule](#) **Last Shuttle: 8pm**

Campus Mail



2 Packages **Open: 8am**

[View on Map](#) **Close: 6pm**

Cot

Registration **Starts: April 3**


Courses

Section	Name	
Philosophy 423	Critical Philosophy of Kant	2
Biology 450	Field Ecology	0
Mathematics 412	Discrete Stochastic Processes	3

Email



Graduation Confirmation
events@university.edu →

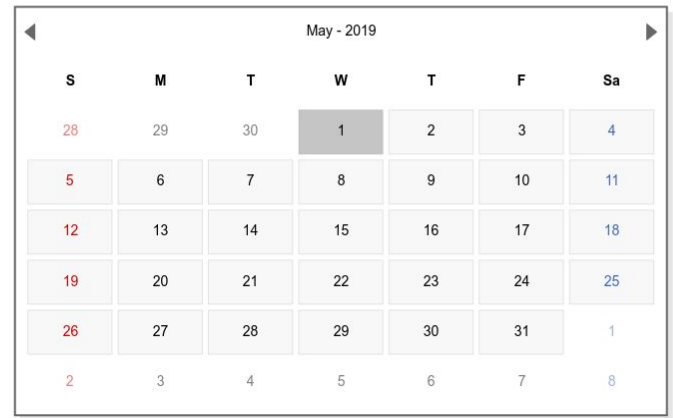


Final Exam Time
professor@univesity.edu →



Movie Showing
events@univesity.edu →

Calendar



Weather



Current 15C Night 10C Morning 12C Afternoon 14C

Recommender system



Questions?