The Future of the Portal and uPortal 5

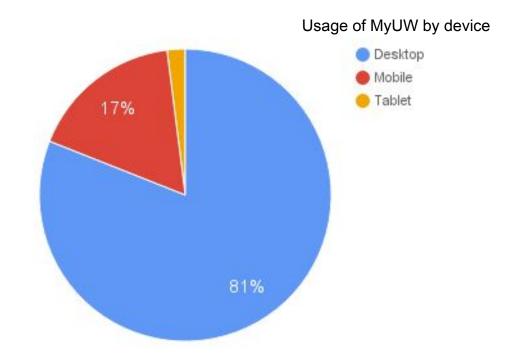
Jim Helwig, uPortal Steering Committee Chair

Emerging Themes

Classic Portals

- 15-20 years of growth
- Multiple tabs, multiple portlets
- Built-in tools
- Locally hosted

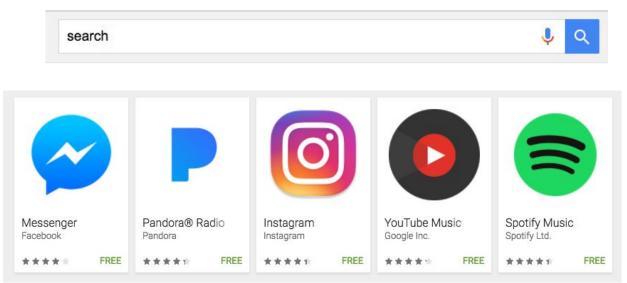
Importance of Mobile



Dynamic and Fast User Interfaces



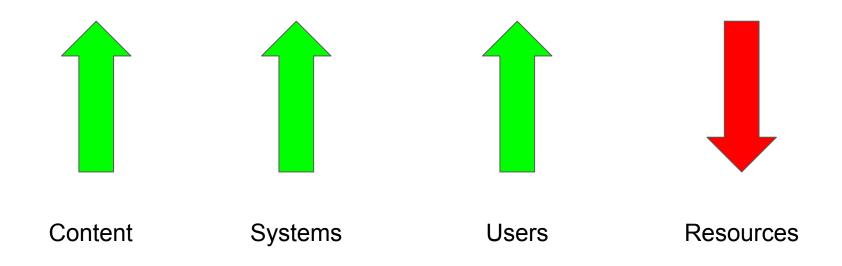
Adoption of Common Paradigms







Do More With Less



New and Improved Functionality

AngularJS-Portal

- Alternative front end
- Now in Apereo Incubation
- Available now, but will be bundled in uPortal 5
- Based on Material Design

Weather

Thu

H: 49°

L: 39°





@

Learn@UW

Classroom

Schedulina



Course Services

See all course services

Course Guide

Expand widgets

Classlist

Grading Policy

a



10/27/2016 Earnings Statement

10/13/2016 Earnings Statement 09/29/2016 Earnings Statement

Launch payroll to find:

- · Earnings statements
- . Tax statements (W-2, 1095-C, etc.)

Personal Information

Launch full app

· W-4 and direct deposit forms

See all payroll information

Change to °C

Madison, Wisconsin

Now

45° F

Wed

H: 48°

1:43°

Benefit Information

Launch full app

Annual Benefits Enrollment 16 days left to enroll

Learn more

Enroll

Email

Fri H: 63°

1:51" Powered by World Weather Online

Launch full app

HR, Payroll and Benefits News

UIA Life Insurance Annual \$24 Premium... Annual Benefits Enrollment period: Oc...

Individual and Family Life Insurance ...

WRS News Online, September 2016

Showing 4 of 5

options:

· Search by term · Search by instructor

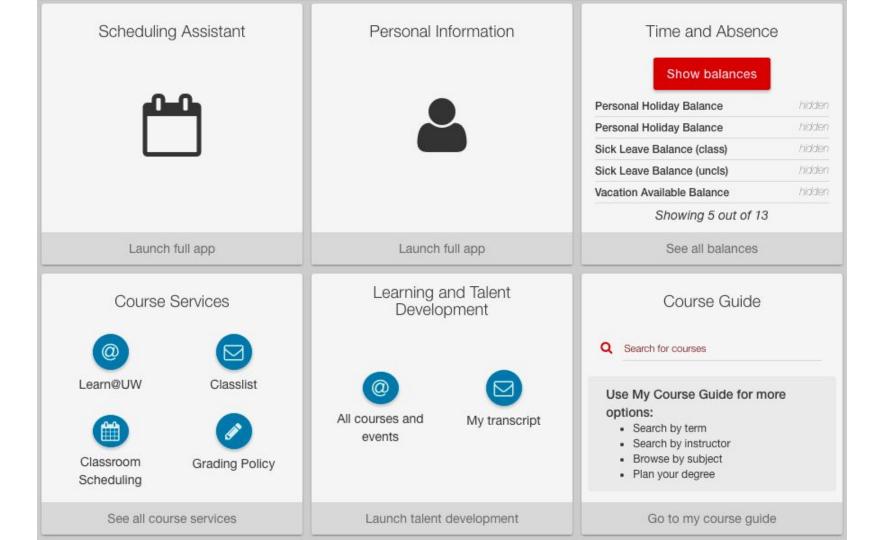
Use My Course Guide for more

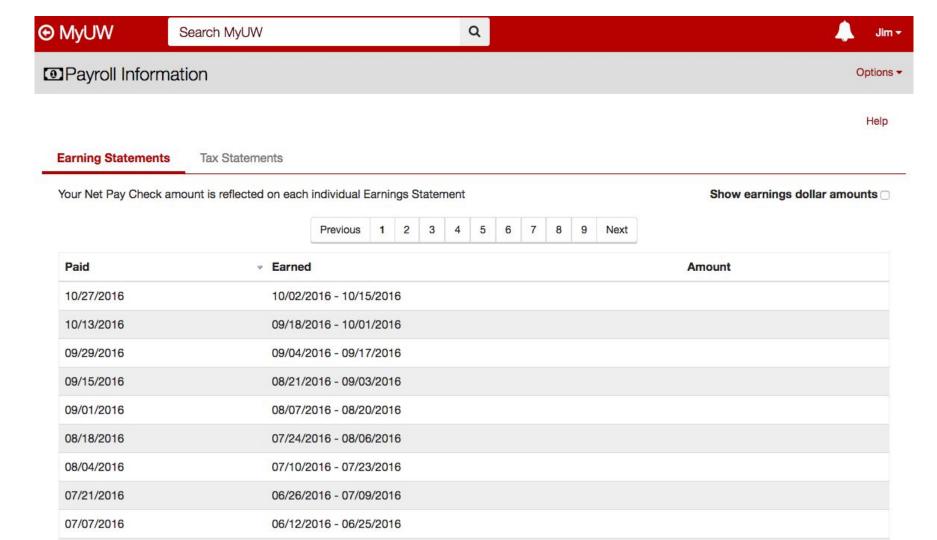
Search for courses

· Browse by subject · Plan your degree

Go to benefit information See all

Go to my course guide







Search MyUW

Q

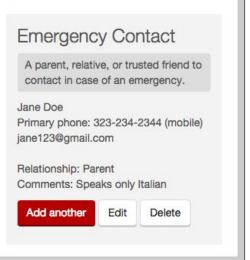
▲ My Profile - Emergency Info

State and federal laws require the university to collect emergency contact information for every student. Learn more in the KnowledgeBase.

This information is being collected for the safety of our students. Only authorized UW personnel will be able to access it.













Q Advising Gateway



Add to home More ▼



BUCKINGHAM U BADGER

Campus ID: 0123456790 Date of birth: 10/02/1949

Email: bbadger@wisc.edu

Phone: 262/555-5555

School/College: Engineering, College of

Matriculation term & type: Fall 2013 FYR (UGRD)

Degree & major 1

Progress toward degree



59 credits

Launch DARS 2

Certificates 0

Courses and GPA



2.179 2.133

last term GPA

cumulative GPA

Launch course history &

Student group(s) 3

Advisor notes



notes

Launch advisor notes 3

Back to Search

Alerts (2)

Cleared of Previous Action - 2014 Fall (ACTION)

Probation - 2014 Sprng (ACTION)

Advisor(s) 2

Quick links



Degree planner

Student center

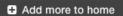




Enrollment history







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Course Services

See all course services

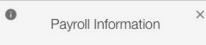
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45° F

Madison, Wisconsin

Weather

Wed H: 48° 1:43°

Thu Fri H: 49° L: 39°

H: 63° 1:51" Powered by World Weather Online

Launch full app

Launch full app

Email

HR, Payroll and Benefits News

Individual and Family Life Insurance ...

a Search for courses



Annual Benefits Enrollment 16 days left to enroll

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UIA Life Insurance Annual \$24 Premium...

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· Plan your degree

· Search by term

Launch full app

Go to benefit information

See all

Go to my course guide





All (157019)

MyUW (7) Directory (12)

Wisc.edu (157000)

MyUW

Course Services

Access services including Learn@UW, email class list requests, Registrar's Office forms, Teaching and Learning Excellence, and more.

+ Add to home Details ***

Textbooks

Textbooks and course materials organized by department and term.

+ Add to home Details ***

Course Guide

Find courses by title, college, department, school, or instructor.

✓ Added to home Details ★★★★☆

Learn@UW

Access your Learn@UW account.

+ Add to home Details ★★☆☆☆

Plan Courses

Manage favorite course lists and course planners.

+ Add to home Details ***

Help

Provides help documentation for the Course Guide tab.

+ Add to home Details ***

News

Provides news and updates for the Course Guide tab.

+ Add to home Details ***

Directory





Q Search MyUW





☆ Home

+ Add more to home



Expand widgets











Payroll Information



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Personal Information

Benefit Information











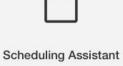












My Courses Map





















Course Schedule





Faculty Center





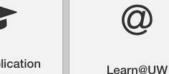
Advisee Lookup - with

Notes

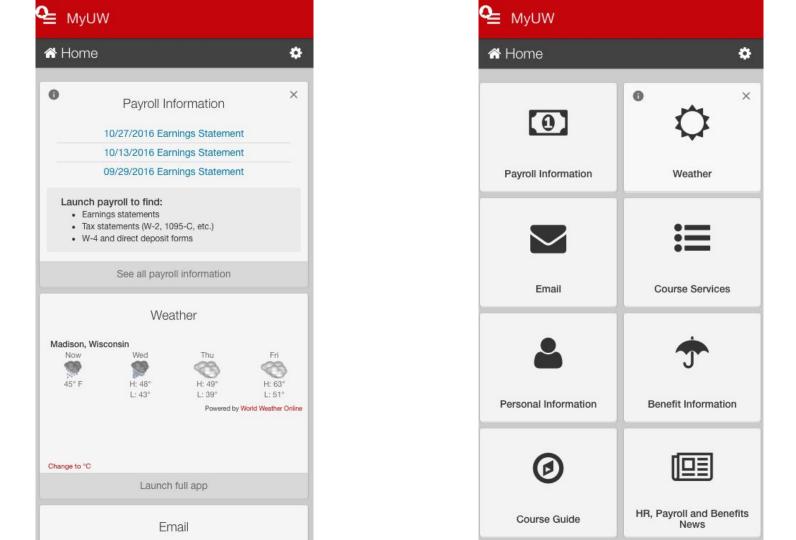


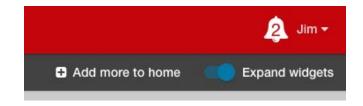


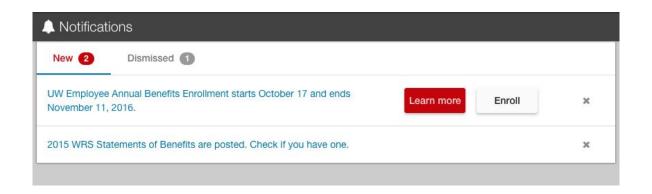


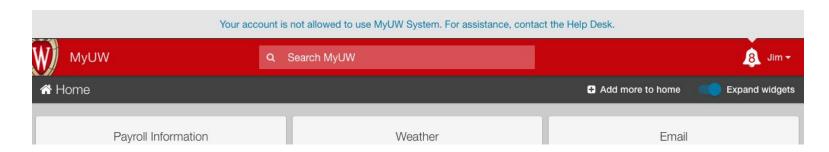












Benefit Information

Annual Benefits Enrollment 22 days left to enroll

Learn more

Enroll

System maintenance may interrupt your self service (ebenefits) Open Enrollment session Oct.

22, 6 a.m. - Oct. 23, 10 a.m.

Go to benefit information



The end-of-February 2017 Human Resources System upgrade will interrupt access to this app.

Help

12/27/15 to 12/31/15 University Staff Leave Balance

Leave Balances Leave Reports

Leave balances are also available on your current Earnings Statement.

Entitlement Balance

ALRA Balance

Banked Leave

Classified Furlough Allocated

Legal Holiday Balance YTD

Personal Holiday Balance

Balance

0.00

128.40

72.00

936.00

Previous 1 2 Next

Common Scholarship Application

Get money for school! Find out about scholarships you qualify for, apply, and track your applications.

Learn more Not interested









Add more to home

Options -

ence

Google Apps



Drive



Recent docs





Weather

Thu

H: 49°

L: 39°

Powered by World Weather Online

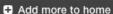
Fri

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Expand widgets



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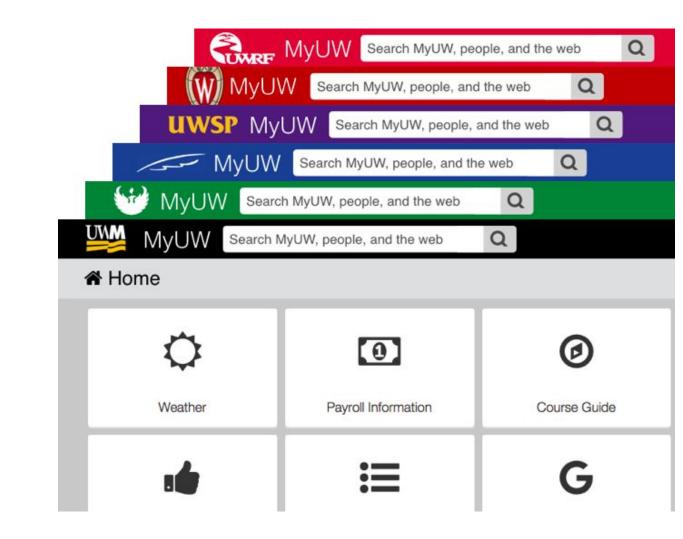
Go to my course guide

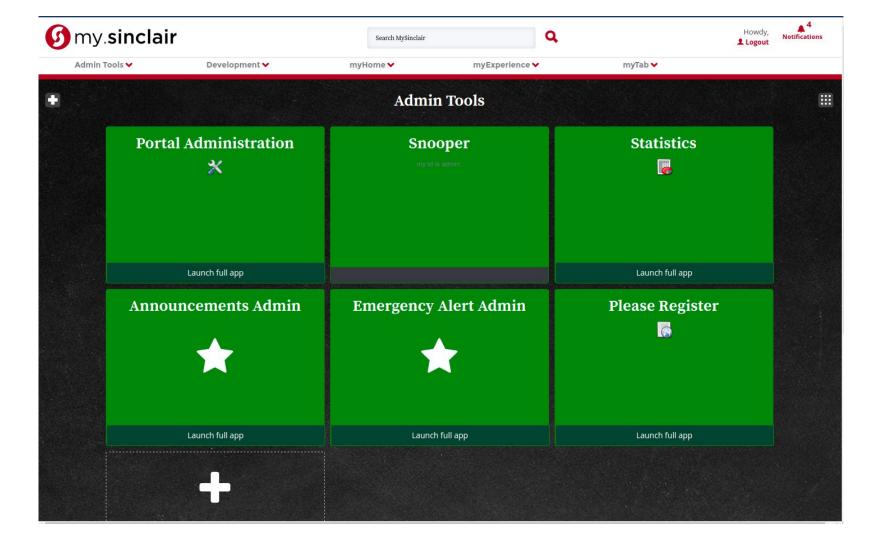
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- · Plan your degree

Search for courses





The new MyUW makes it easier to do more.

You'll be switched over automatically in 14 days.

Learn more

Try it now

Learn@UW

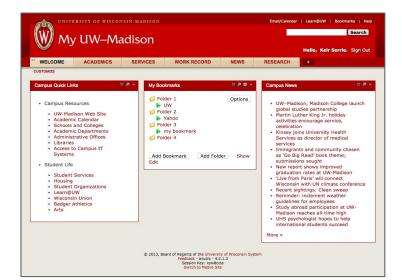
Bookmarks

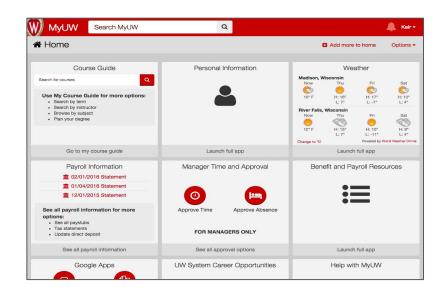
Sear

Email/Calendar

UNIVERSITY OF WISCONSIN-MADISON

My IIW-Madison





Additional presentation on design and motivation

Beyond Portals: A Next Generation, Action-Oriented Service Delivery Platform for Rich Campus Applications

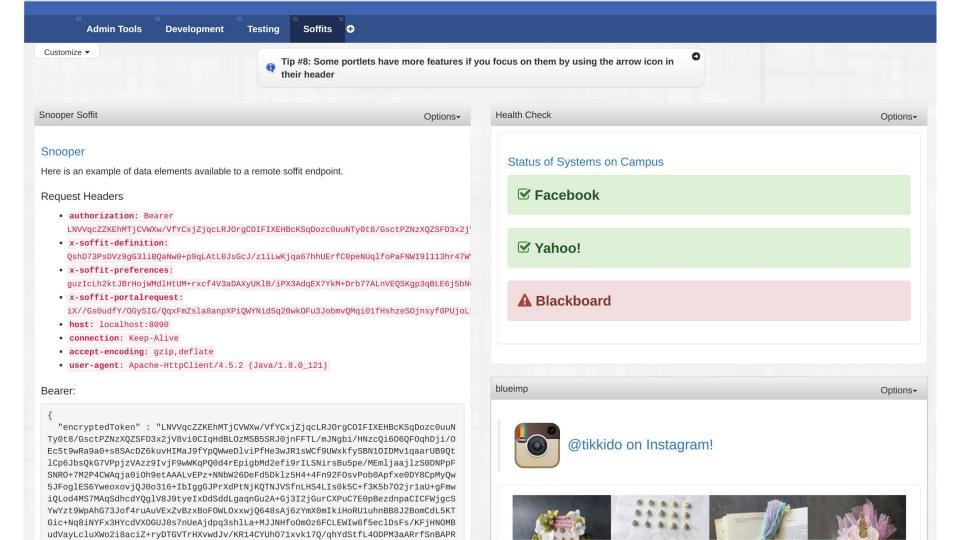
https://goo.gl/PKsFQx

Introducing Soffits

- New standard for pluggable content in uPortal
- Alternative to JSR-286 portlets
- Why?
 - JSR-286 was drafted in 2008 -- almost 10 years ago!
 - JSR-286 is fundamentally about 1 click == 1 page
 - JSR-286 portlets must be written in JVM languages, usually Java
 - JSR-286 portlets run in the same Tomcat and Java process and the portal; adding or updating a portlet requires and build cycle & restart
 - JSR-286 places too many restrictions on information from the container...
 - NO user attribute discovery
 - NO attributes for unauthenticated users
 - NO groups discovery
 - JSR-286 requires too much configuration in portlet.xml (e.g. attributes, groups, caching); if you want different settings for these items, you must fork the project

How Soffits Work

- Soffits may run in their own process, on their own host; (or they may run in Tomcat, if you prefer)
- Communication with the container (uPortal) is JSON over HTTP(S)
- There is a data model...
 - PortalRequest -- Information about the user's request to the portal service
 - Bearer -- Information about the user
 - o Definition -- Information from the publishing record (portlet-definition.xml) of the soffit
 - o Preferences -- Publish-time configuration settings for this soffit
- Data model object are sent as JSON Web Tokens (JWTs) using HTTP headers
- You don't have to write soffits in Java; but if you do, there are a lot of shortcuts
 available (especially with Spring Boot!)
- Sample soffits project: https://github.com/drewwills/soffit-samples
- Alternative Soffit orchastration https://github.com/bpowell/brocker



Better Accessibility

- WCAG 2.0 Level AA accessibility audit
- Guidelines:
 - o US Section 504
 - o US Section 508
 - O US ADA
 - o FR RGAA 3-2016
 - o CA AODA
- Test plan: https://wiki.jasig.org/x/CYBnB

Better Accessibility

- Available in uPortal 4.3 (rel-4-3-patches)
- Specific issues:
 - https://issues.jasig.org/browse/UP-4735.
 - https://issues.jasig.org/browse/EMAILPLT-190
 - https://issues.jasig.org/browse/FBP-28
 - https://issues.jasig.org/browse/ETPLT-7
 - https://wiki.jasig.org/display/PLT/EsupSympa
- Thanks in particular to Christian Murphy and Christian Cousquer!

Better accessibility results in a better experience for all!

Improved Internationalization and Localization

- Build into new components
- Reduce need to fork
- Looking for guidance, advice, and assistance!

Improved Build Architecture

Better Documentation

- Co-locate with code
- Easier to create and maintain
- Jekyll, markdown, GitHub Pages
- 100% open source
- Examples
 - uPortal stub http://jasig.github.io/uPortal/
 - AngularJS-Portal http://uw-madison-doit.github.io/angularjs-portal/

Common Apereo Binaries

- Don't need to build on each server
- Download and configure
- Separate out what should be modified locally
- Easier to internationalize, localize, and configure
- Fix bugs on branch, contribute back for next release
- Best to do this in the core project, release, and then deploy

Better yet, make your changes directly in the core project first!

Microservices and Container Packaging

- Easier to create and maintain
- Easier to get started with
- Deploy only what you need
- Easier to deploy into containers like Docker

Start small for the win!

Working Together

Share early and often

- Discussion lists
- Blogs, personal or https://apereo.github.io/
- Hangouts, webinars, community calls

Branch, don't fork

- Easier in the long run to keep current
- Not separate versions, just separate deployments
- Incorporate local fixes and enhancements back to project
- Better yet, fix and enhance the core project and then deploy locally

Discussion

- What excites you about uPortal 5? What concerns you?
- What are the barriers to more adoption and collaboration?
- What ideas do you have that would make it easier?
- What are your ideas for the future of uPortal?
- ???

Merci beaucoup!

Resources:

- Presentation slides: https://goo.gl/U9R990
- Presentation notes: https://goo.gl/D5BkW2
- uPortal 5 overhaul: https://wiki.jasig.org/x/GYBfB
- Beyond Portals presentation from Educause: https://goo.gl/6rtVd7