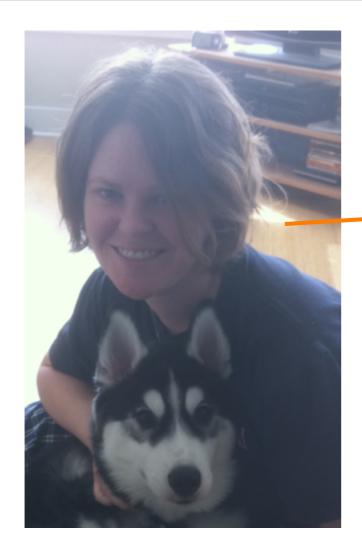
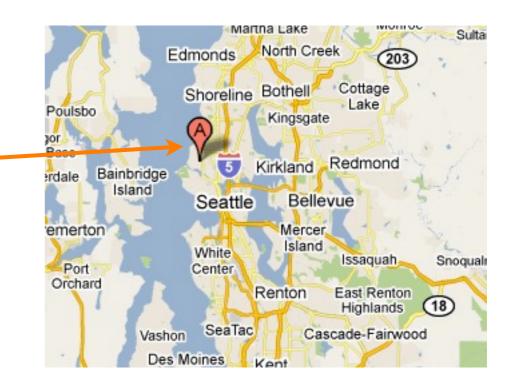


A mobile campus project



Jen Bourey







Steering Committee Member Portlet Release Coordinator uPortal/Portlet Committer



uPortal Cooperative Development Higher Ed Consulting Sales Engineering



uMobile Team



Gary Thompson



Jeff Cross



Introduction

- uMobile Overview
- Why uPortal?
- uMobile Architecture
- Demo
- uMobile Project Plan



What is uMobile?

uMobile is open source

- An incubating Jasig open source project
- Developed directly in Jasig source control (sandbox) under Apache Software License 2.0
- Maintained by a community of developers under the guidance of the uPortal Steering Committee



uMobile is Native





Android



uMobile is Web



palm webOS

webOS 1.4.1+











uMobile is uPortal

- uMobile is the mature, open source, highperforming uPortal, the enterprise higher education portal, with additional native integration
- Main uPortal codebase includes web-based support and services for native app
- Can be adopted stand-alone or as an extension of a "traditional" enterprise portal
- Not a fork, just a different usage of the same software and added native mobile device client

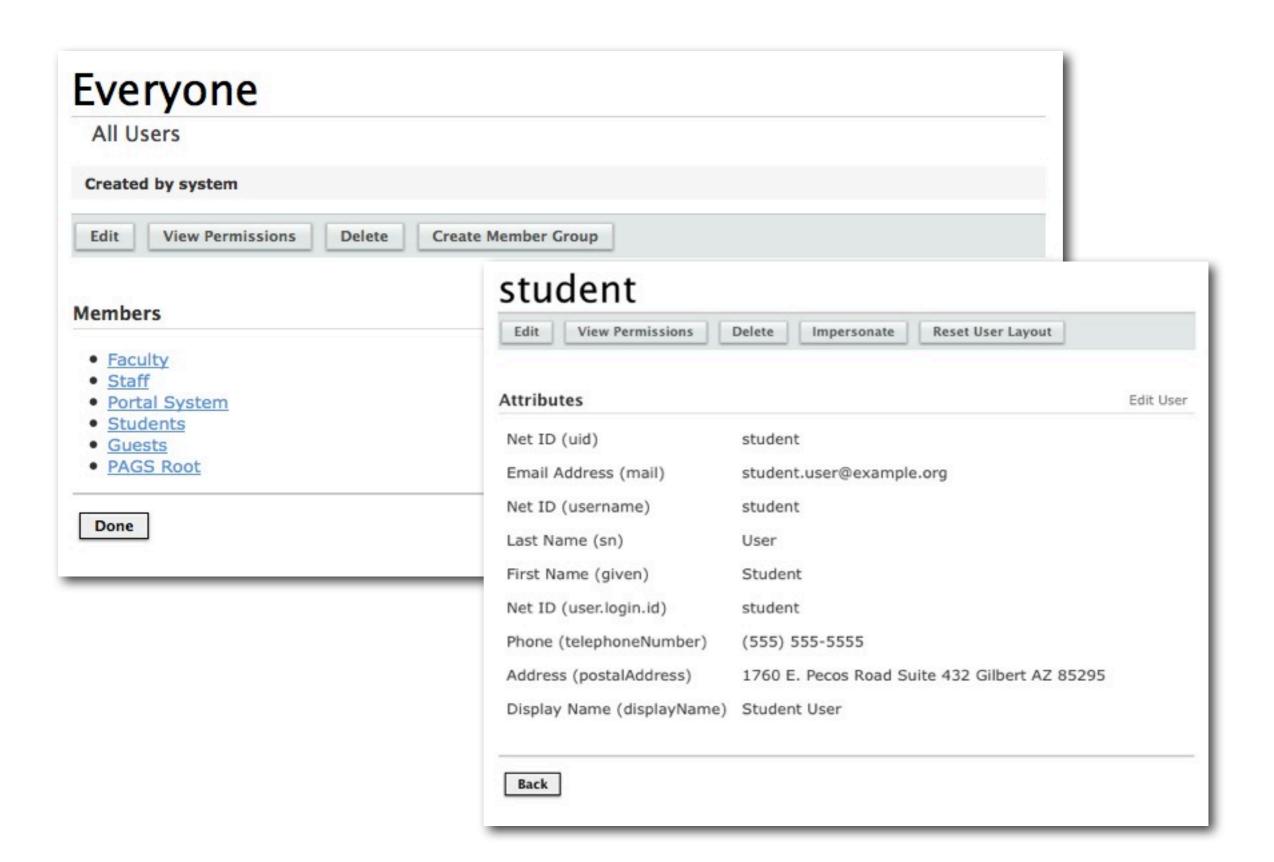


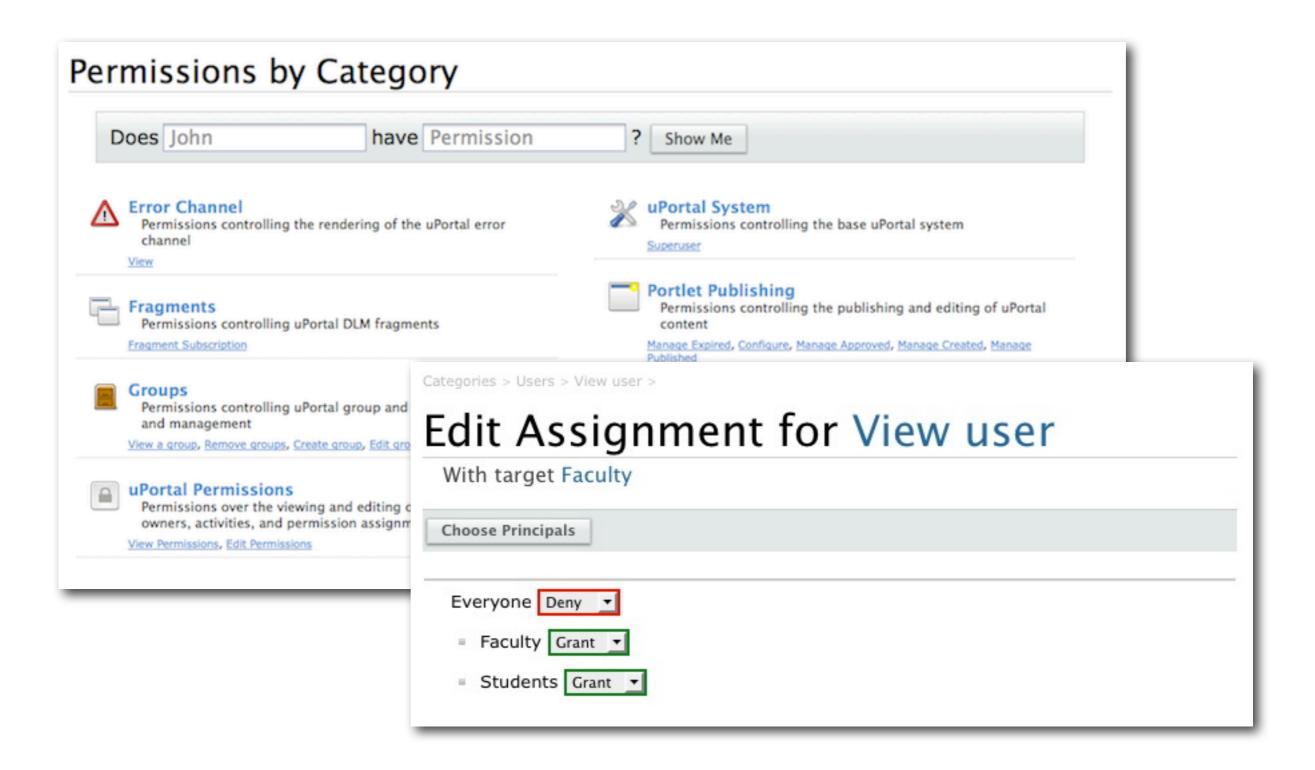
Why uPortal?

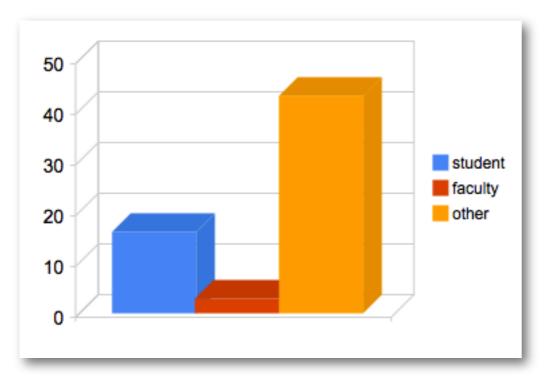
Framework Support

- Authentication and Authorization
- Groups and Permissions
- Layout Management / Personalization
- Administrative Tooling

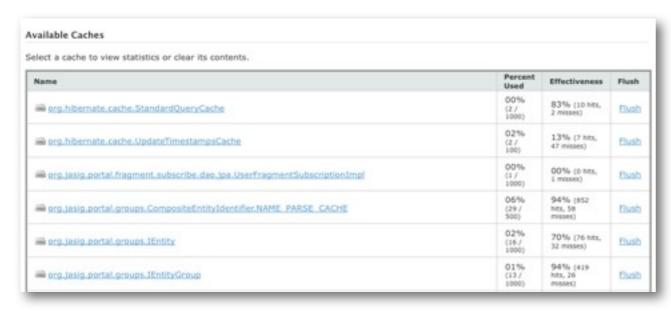




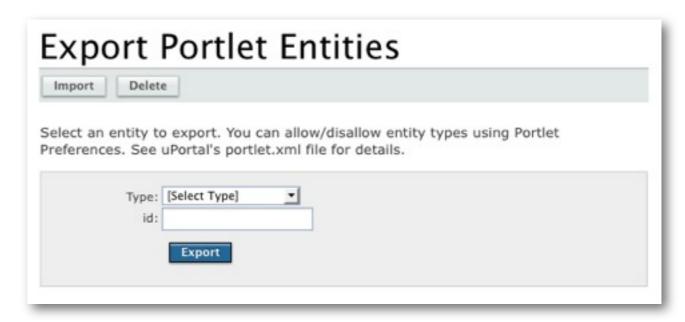




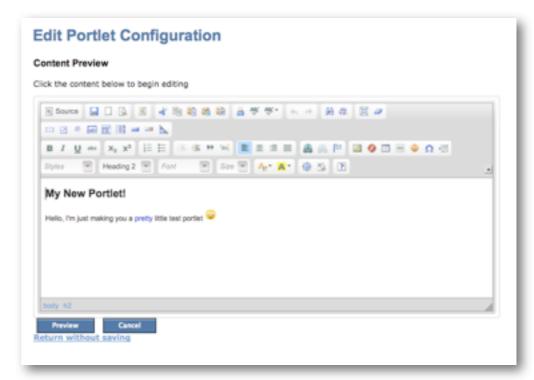
Statistics



Cache Management



Data Migration



Content Creation

Platform Maturity

- Long project history
- Performance
- Scalability
- Existing mobile support
- Already used as a dashboard



Development Standards

- JSR-168 / JSR-286 provides a familiar, welldefined development standard
- Assures modules will work across uMobile versions



uMobile Architecture

Native App Codebase



- Based on Titanium Appcelerator
 - JavaScript-based platform-independent development framework
 - Compile shared codebase to iPhone and Android applications with native controls
 - Open source under the Apache 2.0 License



Portal REST Services

- REST services provide JSON data for
 - User layout
 - Map data
 - Contacts information



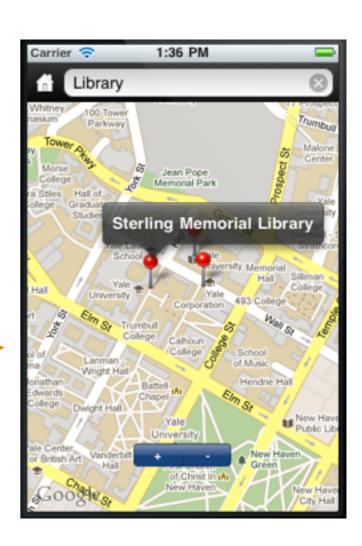
uPortal Server

Request data from uPortal map service

Return location data as JSON

uMobile App

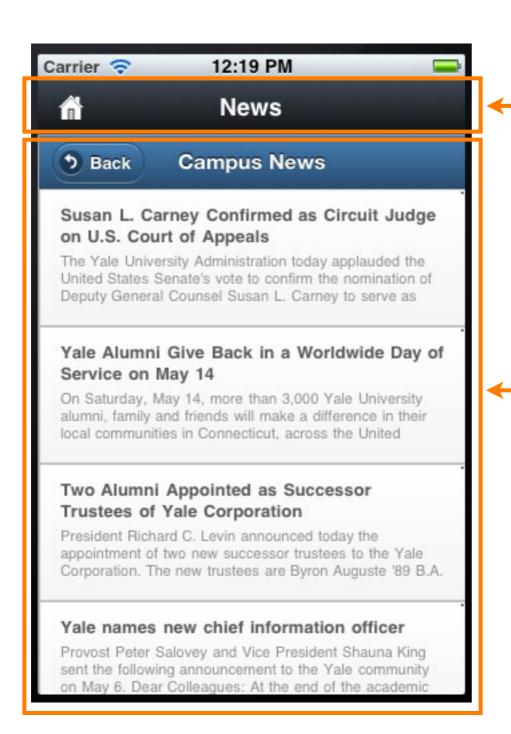
Present native components based on portal data



Web Views

- Portlets may be included as modules using a web view
- Portal omits portlet chrome for native app views
- jQuery Mobile provides
 - Skinning framework with support for multiple mobile browsers (not just WebKit)
 - Event listeners for mobile interactions such as tap, swipe, and pinch





Native components provide navigation

WebView presents markup from portal

Advantage of web views

- Single codebase produces all mobile views
 - Multiple native applications
 - Multiple mobile web browsers
- No update to the mobile client app required
- Familiar development environment



Including Existing Sites

config.js

```
UPM.LOCAL_MODULES.twitter = {
    title: 'Twitter',
    fname: 'twitter',
    url: 'http://mobile.twitter.com/searches?q=jasig11',
    externalModule: true
};
```



Configuring uMobile

- Simple configuration file controls
 - Base portal URL
 - Authentication method
 - Person directory information
 - Emergency contact numbers



Additional Configuration

- Skinning / Branding
 - Simple skin file defines colors and styles for native app
 - Uses CSS-like attributes
- Localization
 - Messages file defines strings for message keys
 - Default language defined in configuration file



uMobile Roadmap

Initial Priorities

- Develop a reliable platform for delivering webbased and native content
- Provide high-quality, easily customizable browser and native skins
- Develop portlets that exercise and demonstrate the framework
- Create documentation



Mobile Portlets

- Create jQM-based views for portlets with existing mobile support
- Add mobile support to additional portlets
- Improve performance on mobile devices
- Create brand new portlets



Native Integration

- Persistent Authentication
- Appropriate Caching
- Maps
- Contacts



Available Today

- Browser-based theme included in uPortal 4.0 RC1 quickstart
- uMobile Native App codebase in SVN
- Jasig '11 Conference App



Near-term Priorities

- Release Management
 - Official SVN tag
 - uMobile Quickstart
 - Documentation
- uMobile Improvements
 - Performance
 - Map module updates



Long-term Future

- More native integration
 - File upload / download, video
- Broader native support
 - Blackberry, tablets
- Custom layouts



Invitation to Contribute

- Opportunity to be a contributing stakeholder
- Request for resources to accelerate the project
- Influence the direction of uMobile
- Participate in regular, interactive status calls
- Take a leadership role in the communications



Questions?

