HUBZero Adaptation Roadmap for Work Spaces

This document briefly describes the order in which we will implement functionality in HUBzero. The stages below mark points at which we initiate work in a given area. Stages overlap. Different sub-teams will work on different aspects of the project.

Stage 1, Deploy HUBzero

Indiana, UW-Madison
The starting HUBzero 0.9 was upgraded of HUBbub 2011 to the 1.0 release. A test deployment is hosted by Indiana. UW-Madison's library is hosting a development instance.

Stage 2, Initial development on four tracks

CMIS based Repository Browser

UW-Madison
This includes a CMIS services client and a UI integrated in HUBzero as a Joomla component. This area of work coordinates with the CI Repository Adaptor work being done at Northwestern.

Integration of Fedora Repository

UW-Madison, Indiana
This work includes object modeling and, initially, a rudimentary CMIS services layer between Fedora Repository and HUBzero. Indiana will develop object marshaling to tools. UW-Madison will adapt the repository browser to add CRUD functionality appropriate to a local object store. The standard models developed at Northwestern will serve as a guide for modeling in the local repository.

Experiments with tool implementation

Indiana
This work includes demonstrations tools deployed with HUBzero's Rappture tool kit and as Joomla components. It also includes tool libraries to marshal objects to and from the local Fedora repository. The work coordinates with the Fedora deployment and object modeling.

Planning Persons, Profiles, Policies, and Groups Services

UW-Madison
We represent the Work Spaces perspective and requirements in discussions around Persons, Profiles, Policies, and Groups. The work coordinates with the BSP team and architects at UW-Madison who are developing a general AuthNZ architecture for Bamboo and identifying technologies for initial deployments.

Stage 3, Development of Services clients

RESTful calls scholarly services on the BSP

UW-Madison
Initial experiments will demonstrate integration, following application level authentication. As Persons Services and AuthNZ implementation proceed, services call to the BSP will include Bamboo Person ID. This work coordinates with the BSP.

Stage 4, AuthNZ integration

This work involves integration with a SAML-based IdP and services calls to the BSP Person service to resolve to a Bamboo Person ID. This work coordinates with the BSP.

Stage 5, TSR and OpenSocial integration in two tracks

TSR
This work involves providing access to the TSR from within the HUBzero work space. At this point, the style of integration remains unresolved. If we are success with the experiment to integrate an OpenSocial container in HUBzero, we may wrap TSR functionality in an OpenSocial gadget. Alternatively, TSR may be implemented entirely within HUBzero.

OpenSocial
We will investigate the integration of an OpenSocial Container with HUBzero. This work coordinates with the Oxford OpenSocial work.

**Stage 6, Packaging and deployment planning**

In this phase we develop deployment strategies looking beyond the present grant period.

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