Undergraduate Portfolio System

Project Proposal - V1-

April 2013

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Technical Approach

* Coding Standards

Solution Overview

* Design approach
* Look at existing systems:
  + Evaluation
  + Database
  + New Media Portfolio system

Designs

* UML Diagram
* Database schema > review existing

Abstract:

This document is intended to clarify the specifications of version 1 for the portfolio system. In this first version of the project we will only tackle some parts of the problem. You will find in the featured section all the functionalities that we should implement. For a more general overview of the project refer to the main document.

**Questions:**

Overarching questions that need to be explored further to continue conceptualizing and designing the Portfolio System

1. How do we test the system? > (user testing?)
2. What existing systems (database, evaluation) do we want to use and how do we use them?
3. How do we begin to implement the site?

List of the features of the V1:

This section describes what features are available to which audiences. Note that students, faculty, and members all have access to anonymous features and students and faculty have access to member features.

Anonymous User Features

* Browse student work in collections
* View student profiles
* Search for students, work
* Register account

Member Features

In V1 of the portfolio system, there would only one type of member.

* Create and edit profile
* Discover/browse/view work and profiles
* Answer personal assessments
* Bookmark work and profiles
* Delete account & data

**Student Features**

* Upload/edit/publish work
* Organize/contextualize and archive work
* Share work and work-in-progress
* Solicit personal assessments
* Submit projects to faculty-created class groups
* Provide and receive class assessments based on faculty criteria

**Faculty Features**

* Place students into a class group
* Create “assignment”
* Create assessment criteria for work in “assignments”
* Control who can see the assessments within their class(es)
* View, sort and summarize assessments from assignments

Detailed features

This section organizes system features into common feature groups and further explains what the feature is.

**Account**

* Register new account

Creates a new member

* Delete account and data

Removes all data and account information

* Manage notification settings

Set notification methods (email, text) and notification types to receive

**Profile**

Profiles are available to any logged in user, V1 of the Portfolio system will only have one account/profile type.

* Update profile information

Change profile information such as description, interests, etc.

* View profile

View any user’s profile information

**Student Work**

* Create new work
* Organize and contextualize work into portfolios
* Designate work as in-progress or complete
* Designate work as public or private
* Add questions about the work that the user specifies (personal assessments) – **See next section (Assessment)**
* View responses to personal assessment questions
* View responses to class assessment questions
* View own class assessments in relation to whole class (summarize/rank)

**Assessment (feedback on user work):**

* Within the project, the user (browser) would be able to message the owner (project creator) directly through email
* To get assessments (comments and ratings) on a project, the owner would be required either to select a question about their project that they would like answered or a topic that they would like the assessment of their project to be based on. The question might be something along the lines of “how might I improve \*this\* about my project?” A topic might be something like “originality”, “creativity”, “usefulness”, etc. This would be used to get constructive feedback, rather than general comments like “this is a good project.”
  + - In this description “owner” refers to the owner of the project that the questions will be displayed under
  + There would be a pre-generated list of questions and topics that the owner could choose from, or they could make their own question or topic. The owner could also disable comments for their project entirely.
  + The questions could be contextualized by the owner, allowing the question to be linked to a specific part of the project (a picture, certain pages of a paper, a section of a video, etc)
  + Comments would have a required number of characters to be posted
  + The owner would be able to specify whether they want comments, a rating (a scale of 1-10), or both as a response to the field they have selected. For most questions, it is likely that only a comment field would be requested, and the ratings would be used more for the assessment topics
  + The rating of a particular topic (or question, if appropriate) would be viewable to everyone. Comments would be only viewable to the owner, but they could choose to publish a comment or comment thread (in the context of its topic or question).
  + Upon reaching their project, the owner would be able to “view assessments” of that project, which would initialize a window overlayed in front of the project. The window would display a list of all questions/topics used for assessment, and any cumulative ratings. Clicking on a question would provide a drop-down list of all comments and any ratings associated with the comments.
  + Assessments would be either public (any member of the portfolio system can complete them) or semi-private (only members of a certain class, department, etc can complete them or only faculty members can complete them)
* There should also be a method of reviewing work that allows direct interaction with the project, for example: editing a paper for grammar and showing the marks that have been made

**Browsing/ Discovering Work**

Work is accessed in a variety of ways, to fit a broad range of browsing needs:

1. A search bar can be found on every page, that searches for keywords, names, categories, project titles, departments, classes, and tags.
2. The ‘Discover’ page has a left sidebar that allows for browsing though academics (departments, classes), term, categories and tags.
3. ‘Recommended’ content is generated based on user’s activity, returning projects and profiles with related content as the user navigates through.
   1. An advanced version of this might actually build up a browsing profile of a user over time, to deliver highly customized content.

Ultimately, all three navigation models are intended to work together, with each available at any given time and at all stages within the site structure.

**Interacting with Work** – Features available to registered members only, except where noted.

* Profiles:
  + View (available to anyone)
  + Send message (through email)
  + Bookmark profile
  + Share permalink
* Projects:
  + View (available to anyone)
  + Provide personal assessment (based on owner’s provided criteria)
  + Message owner (through email)
  + Bookmark within the site
  + Share
    - Permalink
* “Like” or otherwise link to social media

**Bookmarking**

* Sort by type:
  + profile
  + project
  + portfolio
* be able to unbookmark a page

**Faculty Features / Class Project & Assessment tools**

(Student features in blue)

* Create a class.
  + Specify:
    - the name
    - description
    - prefix and course number
* Add students to the class
  + Manually add students to the system
  + Can we tie in with class rosters in Maine Street?
  + Student receives a notification via email
  + Student UI:
    - Search for and request a class
    - Validate or reject a class invitation
    - Quit/Drop a class
* Create assignment
  + On class page, faculty creates assignment
  + The following would be controlled through a “manage classes” page and a “manage assessments” page that faculty members would have access to:
    - Each assignment would have a description of the assignment, and allow students to create projects through a link in the assignment
    - Once projects had been created through that link, they would be categorized into the class and the assignment within that class.
  + Create DUE DATE – timeframe, can close entries
  + Faculty would have pre-defined messages that would be sent to all students in a “class” or “assignment”, such as “You have a new assignment to complete” or “your projects in assignment 1 are ready to be assessed.”
  + Student receives a notification via email
* Create assessment criteria
  + Once assignment is created, faculty can create assessment criteria.
    - 2 types of assessment questions:
      * Rating from 1 to 10
      * Textbox for comments
  + Create DUE DATE – timeframe, can close entries
  + Faculty would have the option to control when assessments are available.
  + Faculty can define the number of assessments that each student would have to complete, this would require an algorithm that balances the projects so that they all receive close to the same number of assessments
  + Students would not be able to change the assessment criteria or the class denomination when creating a project through this avenue
  + Student receives a notification via email
* Assessment Page - Aggregate the result somewhere
  + Stats:
    - Who has completed/not completed…. X out of Y completed
  + Aggregated results of each assessment item
  + Ratings/sorting…
  + Option to make class rankings public to the entire class
    - Student is able to see the assessment on your own project, and see overall class summary for ranking/comparison.
* Each student will have a “my classes” page where they can view all their classes, and in turn go to specific class pages (which would show any assignments, any notifications about that class, and all the members of the class.

**Feedback about the Portfolio System:**

* The portfolio system should have some form of “Contact Us” section that might contain a forum and a way to message the development team
* Within the “Contact Us” page, there would be an “About” section that would describe the portfolio system (and ASAP?)

Site Map

**Anonymous User Sitemap**

See File **Anonymous\_Sitemap.jpg** in Portfolio Version 1, Sitemap folder

**Member Sitemap**

See File **Member\_Sitemap.jpg** in Portfolio Version 1, Sitemap folder

**Student Sitemap**

See File **Student\_Member\_Sitemap.jpg** in Portfolio Version 1, Sitemap folder

**Faculty Sitemap**

See File **Faculty\_Member\_Sitemap.jpg** in Portfolio Version 1, Sitemap folder

**Sitemap Pages:**

**Homepage:**

The initial page that a member (signed-in user) would see when they visit the site (or when the sign-in). There would be work displayed on the homepage in some capacity, which would reflect the users history and profile (comments, bookmarks, interests, etc)

**Create Account:**

An easy to find link on the homepage should take you to a page where an anonymous user would create an account and set up their profile (or a signed in user would be able to edit their profile). Once the account is created, it would take the user to their profile.

**My Profile:**

From the homepage (if logged-in) the user would be able to access their profile page which would show information about them as defined when they create their account (name, profile picture, year, major, dept, interests, an about section, etc). The page would also display a section with the users work (upon the first time visiting their profile, it might prompt the user to create a portfolio). In addition, the user would be able to view and access their bookmarks and click a link to edit their profile.

**Edit Profile:**

This would be reached through a link on the profile page and would allow the user to change their profile information and any other profile specific settings the might have access to.

**Bookmarks:**

From the profile page, the user would be able to access a link of all their bookmarks (portfolios, profiles, projects) and go straight to those bookmarks by clicking on them.

**Manage Work:**

The manage work page would show a user’s portfolios and projects and allow easy access to editing them. Members would be able to access this from the homepage or from a section on their profile page

For the purposes of Projects the word “context” includes:

* Who it belongs to
* Description and purpose
* Department
* Collaborators
* Categorization of some kind
* Term: start date and end date

**Create/Manage Project:**

This would allow the user to upload media, format the media, put media together, arrange them as needed, add text in-line, and add context

**Create/Manage Portfolio:**

This would allow the user to put projects together and add context

**View Profile:**

Every profile would be viewable on its own, it would show all the public information about the user whose profile it was, as well as a section of their work where other users could see any work that they have access to. There would be some way to message the owner of the profile here as well. The user would be able to go directly to that work by clicking a link in the profile’s work section.

**View Portfolio:**

Every portfolio that the user has access to would be viewable on its own, either through browsing or by selecting it on the profile page that it is associated with. This would display the portfolio and all the projects in it, along with its context. The user would be able to click on projects within the portfolio and view them independently.

**View Project:**

Every project that the user has access to would be viewable on its own, either through browsing or by selecting it in the portfolio that it is associated with. This would display the project along with its context, and potentially a feedback section

**Discover:**

This page would allow the user to browse work/profiles. Upon first visiting the page, the user would see all the projects in the portfolio system. It would have a method to explore departments, categories, classes and any other fields deemed appropriate: each field would have a drop-down list of all members of that field (a list of departments in the department field, etc). The lists would be organized so that the user could easily sort through them (organize alphabetically, organize departments by college, classes by department, etc). Exploring a field would change what work is displayed on the discovery page to only show work in that field. The discover page would also be the anonymous user homepage.

**Advanced Search:**

A page that would provide a search function as well as many filters (as listed in the browsing/navigation features section). Upon validating the search, it would take the user to a browsing page with filtered results

**Settings:**

Where the user would change their preferences for the site

**Contact Us:**

Would be a page where the user would be able to contact the development team directly. This might be or include a forum. It would include an “About” section that would provide information about the Portfolio Site (and potentially ASAP).

User Flow Charts

Wireframes

\*\*see wireframes folder in ASAP\_Portfolio\*\*

Storyboards

Class Diagram

Database Schema