SE735 - Data and Document Representation & Processing

Project (Revised 2/21/13)

Deliverables

A standard data model and XML schema for your project.

Some Possible Document Engineering Projects

- Event Calendar Network -- replace hodge-podge of calendars that can't share events with repository and syndication/reuse network
- Biography and bibliography - reuse of information for faculty reviews
- Construction project management and collaboration
- General Hospital electronic health records information flow

Dates and Deliverables

April 11 - Proposal due and class presentation (New Date)

April 11 – Assignment #3 Due – Project related assignment.

May 2 - Final project due

Author A
Author B
Author C

Project Description

Due to the decentralized nature of computing at Pace, different schools, departments, and other campus organizations often create applications on an "ad-hoc" basis. The lack of campus-wide guidelines and standards for designing and building applications make it difficult for developers to design for interoperability and reuse. Consequently, the Pace campuses are inundated with applications serving a similar purpose and repurposing similar content, but built with different technologies and based on different, and often incompatible, data models.

A standard data model will be developed for calendar events as part of the creation of a university-wide event calendar. The results of our modeling effort will be encoded in XML schemas for a "calendar event," which will be used to validate instances containing event information. Our aim is to create a model that is flexible and scalable enough to accommodate the requirements of most calendars on Pace campuses.

The event schema will provide the foundation for the central part of our project, the design and prototyping of a comprehensive Calendar Management Tool. The Calendar Management Tool will allow campus organizations to create a Customized Calendar and manage event information. Calendar owners will be able to enter and edit events that will be stored in a centralized event repository. Although the events of all calendars participating in this system will be stored in one repository, calendar owners will be able to designate their events as either private to their organizational calendars or publicly accessible to all calendars participating in the system.

The Calendar Management Tool will also allow calendar owners to select public events from other calendars to display in their calendars. For example, if the Pace PLV calendar wants to publicize NYC events, the calendar administrator can log onto the Calendar Management System and choose to add NYC events flagged for public viewing. Finally, the Calendar Management Tool will allow those campus organizations who lack the technical staff or knowledge to create and maintain a dynamic calendar to easily create and customize a calendar which would integrate with their existing website.