Term Project

Due Dates

5PM November 28 (Monday), 2011	Preliminary Design Document
9:10AM December 01 (Thursday), 2011	Preliminary Prototype Presentation
5PM December 28 (Wednesday), 2011	Final Design Document
9:10AM January 05 (Thursday), 2012	Final Report and Presentation

Project Description

The goal of this term project is to design and implement a *multi-lingual* Web-based conference hosting system (or website) that facilitates papers submission and selection for typical academic conferences. The project is open-ended and its precise scope is up to the decision of each team. Nonetheless, we pose the following requirements that should be essential for such a system.

First of all, *the support for presenting Web pages in multiple languages is considered to be a very important customizability requirement.*

The system allows the program committee (PC) chair or co-chairs of a conference to create a conference instance on the website (perhaps after some verification of identity). The PC chair can then add PC members to the conference. Formation of the PC itself could be supported by such a system, with facilities for the PC chair to send out invitations and for the invitees to either accept or decline.

For the papers submission stage, the system should support the following activities:

- A registered user may submit a paper to a selected conference (before the deadline), along with some personal data and also those of the co-authors; the user and his co-authors then become authors of the conference.

- An author may update a submission, for example, by uploading a new version of the submission.

- An author may also choose to withdraw a submission.

- For any action taken by an author, an appropriate notice should be emailed to the author.

A user may be the author of several conferences. He should be able to switch between conferences and check the state of his submissions.

For the papers selection stage, the system should support the following activities:

- The PC members may bid for the papers to review.

- Based on the bidding and also the expertise of each PC member, the PC chair can assign papers to PC members for reviewing.

- A PC member can upload a review report or fill out a review form online.

- After all reviews of a paper have arrived, the PC members may discuss their assessments.

- The PC chair can decide, based on the evaluations, which papers to accept and which papers to reject and trigger email notices to authors.

Non-functional requirements There are also non-functional requirements, including security (secrecy, privacy, access control, software security, etc.), concurrency control, system robustness, and browser neutrality.

- **Secrecy**: Transmission and storage of sensitive data should be protected.

- **Privacy**: Privacy of all users should be respected. A policy of privacy should be in place and enforced.

- **Access Control**: An adequate access control policy should also be in place. Every piece of data can be accessed only by a person with the access right.

- **Concurrency Control**: Several users may access the website at the same time, without interfering with each other or causing inconsistency in the data.

- **System Robustness**: The system should be robust and gracefully handle any illegal inputs by the user.

- **Browser Neutrality**: The system should work on as many browsers as possible. So, try not to utilize a feature that is supported only by a particular browser.

General Instructions

- *You must use the Git version control system, set up for this course, to manage your development work.*

- The design documents and the final report should be in printed form. Please use A4 paper and *double-sided* printing. Simply staple on the upper left corner; NO plastic or cardboard covers and NO binders, either. Drop the design documents, by their respective deadlines, in the physical mailbox of Yih-Kuen Tsay (the instructor); put the final report on the instructor's desk before the final presentations start. Late submissions will be penalized 20% for each working day overdue.

- You are encouraged to write in English.

- If you are willing to make your design and implementation available to future participants of the course, we would appreciate very much a copy of CD-ROM that contains all relevant sources to accompany your final report. Please include in the CD-ROM compilation and installation instructions.

- DO NOT plagiarize (i.e., do not use material without crediting the source).

Design Documents

The term project is scheduled to be completed in two phases: the preliminary phase and the final phase. Each phase should produce a design document, in addition to a prototype implementation. The preliminary design document should be at most 20 pages long and the final design document 30 pages long. Please use the space wisely.

A design document should include at least the following items:

- an overview of the entire system,

- design of the components in the covered scope, including the various UML diagrams and their accompanying specifications,

- any other verbal or diagrammatic descriptions that would help clarify the design, and

- discussion on how knowledge learned from the course has been applied.

Oral Presentations

At the end of a development phase, each team should give a 30-minute oral presentation with an appropriate set of slides; the presentation is to be followed by a Q&A session. The slides should be designed in such a way that they can be made publicly available on the course website. The presentation must include a demo. The prototype website must be on a remote server, rather than on the local host. Its URL should be announced at the beginning of the presentation.

Final Report

The final report should be at most 20 pages long and include the following two parts:

Part One

- an overview of the system from the users' perspectives

- simple (but self-contained) manuals for the different types of users

Part Two

- a summary of the final design (including possible changes and the reasons for these changes)

- the lessons (not necessarily technical) you have learned

- the task allocation, identifying what each team member has contributed to the project

Grading

Item	Percentage
Prelim. Design Document	10%
Prelim. Prototype Presentation	20%
Final Design Document	10%
Final Report	20%
Final Presentation	30%
Usage of Git	10%

All members of a team basically will receive the same score for the term project. However, a peer evaluation will be conducted within each team following the final oral presentations. The evaluation result will be used to adjust the score of each team member, up to a 20% difference with the original score.