
Client Meeting Notes

COS301

SOFTWARE REQUIREMENTS SPECIFICATION

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16 FEBRUARY 2016

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1 General Vision

- A system which allows researchers at the University of Pretoria (specifically within the Computer Science Department) to keep track of the publications which they are currently working on.
- This system must also keep track of historical publications so as to allow researchers to maintain a history of their work.
- The system should allow the heads of the research groups to manage their group's papers as well as to keep track of all publications under their group.
- The head of the Computer Science department, within this system, should be able to view all research groups so as to enable him/her to manage the department's research goals.

2 Users

- Number of users:
 - members of the department
 - under 100
- The system must be able to support all users working at the same time on the system.
- Users can see a profile page of another user but this profile page contains very little information:
 - name and surname
 - email
 - staff number (if any)
 - other contact details
- Only staff members of the University of Pretoria are *users* of the system.
 - Staff members act as representatives of student authors when adding them to a paper.
- Users must be able to edit their user information.
- A user must be able to assign roles to authors of their paper.
- User hierarchy:
 - There exists a hierarchy in terms of the privileges which each type of user is granted.
 - User types:
 - * Administrative user:
 - this user is the HOD and one other possible admin
 - can view all users
 - can add users to system
 - administrative rights
 - * Head of research group:
 - see all research group members' papers
 - can possibly add papers on behalf of others
 - * General user:
 - can only see papers which they have authored themselves or co-authored
 - users cannot see other user's publications, only their own

3 Document Entries

- No documents will be stored within the system itself.
 - Only the meta-data of documents will be stored.
- A document entry consists of:
 - paper title
 - authors
 - * author list must be ordered by priority
 - * number of authors per paper is unlimited
 - publication type/intended venue
 - * conference
 - * journal paper
 - * technical report
 - * accredited
 - publication target
 - dates (deadlines)
 - progress
 - indication of whether it has been submitted or not
 - indication of whether it is waiting for review
- A document entry must have at least one author.
- Papers can be published across multiple research groups.
- Deadlines for papers are optional when a user creates a paper.
 - The system can ask the user to enter a deadline if the publication type is a conference.
- If paper's intended venue is a special editions journal article the system should add in the deadline for the user.
- It should be possible to enter historical entries.
- Rejected papers must remain in a user's personal history.
 - The number of tries per paper (different venues) must be kept track of.
- Paper's cannot be removed from the system, they can only be edited or if they are no longer active they can be terminated.

4 Non-users

- A non-user is an author of a paper who is not a member of staff of the Computer Science department.
- Non-user types:
 - student of the University of Pretoria
 - an external collaborator
- A user must be able to specify whether a non-user is a student of the University of Pretoria or whether they are an external collaborator.
- A non-user's details must still be saved within the system however there will be no login account associated with a non-user.
- Previously entered non-user authors should be displayed as options when selecting authors for a paper.
- Non-user details must be able to be edited by a user of the system.
- There must be functionality to allow an admin to assign a non-user as a user of the system.

5 Units

- Intended venues have different unit ratings.
- If an intended venue is accredited then it has a different weighting in terms of units.
- The units earned by each user must be kept track of.
- The default units earned by each intended venue is able to be set and edited by the admin.

6 Architecture Requirements

- Access channel requirements:
 - A central application program interface will be run on a server and clients will interface with it to access services from it via:
 - * an android application
 - * a web application interface
 - The interface must be lightweight.
- Integration requirements:
 - The system might have to be able to eventually integrate with external systems.
- Quality requirements:
 - Performance: No concurrent editing of documents necessary, the last submitted edit is what will be saved to the database.
 - Auditability: All actions performed by all user must be logged and stored in detail.
 - Integrity: No need for backups through system.

7 System

- The system should be able to email users within the system with regards to reminders for deadlines.