

Client Meeting Notes

COS301 SOFTWARE ARCHITECTURE

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1 Overview

The client Vreda Pieterse, requires a system to manage all research papers and publications for the department of Computer Sciences. This system is required to keep track of the metadata of all papers written before and those that will be written in future. The goal of this system is to make it easy to manage hundreds of publications across the various research groups with ease.

2 The user sub-system

- The system should be divided into three main user bases:
 - Users (Lecturers who can access and use the system)
 - Heads of research (Whom are the heads of their respective research groups)
 - Admin (The head of department who should have access to everything on the system)
- The system is required to keep track of entities called authors. A user may be an author, but an author may not be a user.
 - Authors have no access to the system at all
 - Authors only receive notifications of deadlines
 - Authors must be stored in a author list for future access
 - Users act as representatives for authors in dealing with papers if author is not a user
- Profile pages exist for users containing the following information and constraints:
 - Name and Surname
 - A unique email address for notifications
 - A student or staff number if user is a local lecturer
 - The amount of units earned from publications
 - Contact details
- Standard users:
 - May add and edit papers
 - May add and edit authors
 - May add or edit conferences or journals
 - View their own papers
 - View their own profile
 - Terminate a paper
 - Set and edit paper deadlines
- Heads of research:

- May search all papers inside the research group
- May search all users inside a user group
- May add users to a research group
- View the profiles of all users in a user group
- Generate a report for their research group
- Edit the information of the research group
- Admin:
 - May search all papers on a system
 - Purge papers from the systems history
 - Add a new user
 - Purge a user from history
 - Set a user as active/inactive on the system
 - View all user profiles
 - Generate a departmental report
 - Create a database dump
 - Add/remove research groups
 - Assign users as head of a research group

3 The paper sub-system

- Papers should contain the following meta-data:
 - Name of the paper
 - Who the authors are
 - What is the paper being written for
 - How many units is the paper worth
 - What is the deadline for the paper
 - What is the papers current progress
 - Who the target audience of the paper is
- All documents require at least one author.
- The system is purely to keep track of metadata for the papers and is not a version control.
- Unless under special circumstance, a paper should never be deleted but only marked as terminated (rejected, stopped).

4 The notifications sub-system

- All authors should be notified on papers with deadlines in the following 2 ways:
 - When the deadline is approaching
 - When the deadline has been changed for any reason

5 The reporting sub-system

- The system is required to be able to generate reports of how many papers were successful, units earned over the year, number of rejected papers etc.

6 The research group sub-system

- Further research groups must be allowed to be added by the admin user.
- Information about the group should be able to be changed at any given time.
- Users must be able to be allocated to various research groups.
- Admin must be able to assign a new head to any research group.

7 Constraints

- The program should be developed for web with an API android interface for mobile use