

1 Client Requirements Summary

The following is a summary of my interpretation of the Client Session that took place on Tuesday, 16 February. Please feel free to add your own interpretations to it, lecturers included.

Context: The client requires the implementation of a system which will allow researchers to keep track of their publications.

- There will be 4 main user roles:
 - User
 - Research Leader
 - Head of Department
 - Administrator

Only staff members can be users.

- Additionally, **admin login** should be supported, with the ability to add or remove users. The Head of Department is an admin by default.
- The system must support a maximum of **100 users**, and cater to the users concurrently.
- Each publication will have at least one author. Authors do not necessarily have to be users, as long as one author is a staff member.
- the number of authors is unlimited
- With regard to users:
 - They can add a paper, as long as they are one of the authors
 - They can only view papers they authored or co-authored
 - All authors, if they are users, should be able to edit the metadata of a publication
 - Authors are sequenced. *ie* First author, Second author etc.
 - Authors should be added or removed at anytime of the paper
 - Use search to add an author, if they are not in the list they may then be added
 - University of Pretoria should be the default of anything you add

- The Head of Department can see all papers
- A Research Leader can see all papers in his or her research group
- A user must explicitly assign themselves as an author when creating an entry (*eg* by means of a checkbox which is ticked by default)
- Users must have a basic profile page/record that includes information such as name, title, contact number, email address, institution, position (optional) and a comment block. This page **must not** include the user's publications
- Any user can see any other user's profile
- Any user should be able to edit the profile of any researcher who is not a user
- No photos should be used for profile pages
- Users should keep track of units, there should be a target for a year
- Graphs should be used to measure progress of units
- *Is the functionality to search for users a requirement?*
- With regard to papers:
 - Papers themselves are not on the system, only metadata/links to the papers
 - Therefore, no concurrent editing of the actual papers is necessary
 - Changes can be made but papers can not be deleted once started
 - A publication can be published across different research groups
 - There should be backup for all information
 - Papers should have progress to state how far it is from finished(percentage)
 - Metadata for the papers includes title, author(s), deadlines/dates, progress, stages (waiting, accepted, rejected, terminated), intended venue (conference, journal) etc.
 - The intended venue should be linked to the "units" that the venue is worth. The units provided to the author(s) is calculated by taking the units for a specific venue, divided by the number of authors
 - Unit weight has to be stored and once it is in the database it should appear by default

- Papers will be ordered by author
 - A publication can belong to multiple research groups
 - Author names could be used to populate a list to make the selection of authors easier
- The system should cater only for the COS department. However, catering for numerous departments can be considered when looking at the architectural design.
- All activity (such as additions of users, edits etc.) should be **logged**.
- The system requires both a web interface and an Android application.
- Valuable statistics should be presented graphically via graphs and charts. For example, a progress graph showing the number of units an author has earned.
- The system should provide email reminders to authors when deadlines are approaching