

Client Requirements - Notes

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1 Introduction

1.1 Motivation

The CS department has several researchers that publish papers to meet their post-graduate degree requirements. At the moment, management of the publications is an issue as there is no methodical manner to keep track of the researchers' papers. An Excel spreadsheet is currently used and it is cumbersome to manage and use for entries. As a result, a dynamic and easy-to-use system needs to be put in place to make management of publications and progress of researchers and their reports to alleviate the current issue.

1.2 Purpose

The context, or purpose of this software project is not only to replace the spreadsheet system currently used, but to also, amongst other things, enable various researchers to manage and publish their publications, to enable the Head of Department to keep track of the progress made by the graduate students, to enable all users to view profiles of all users of the system, and to allow authors from other universities to collaborate with the Department of Computer Science.

2 Client Requirements

2.1 Architectural Requirements

The system needs to run on the Web and a mobile platform such as Android. The execution of this phase is completely left up to the developer.

2.2 Hierarchy of Users

2.2.1 Admin

- The Head of Department, or HOD is the appointed administrator for this system.
- Has super-user access to the system.
- Keeps track of events happening in various research groups.
- Can add or delete users.
- Manages temporary users.
- Can request reports to be generated for various research groups.
- A dedicated admin besides the HOD might be allocated.
- Can permanently delete a publication, i.e remove a publication from the system.
- Pre-defines units that can be allocated to a certain type of paper.

2.2.2 Head of Research Groups

- Oversees the running of the research group.
- Add user(s) to the group.
- Can view publications of everyone in the group.
- Can request the system to generate statistical reports for the group.
- Adds paper on behalf of non-user authors.

2.2.3 Users

- Are permanent staff members of the department.
- Can view anyone's profile.
- Can add, modify or add metadata about their publications.
- Can terminate their papers.
- There can be a maximum of 100 users.
- Add a deadline for publication for each entry.

2.2.4 Authors

- All permanent users of the system are authors.
- Names are kept on the system and 'remembered' when typed.
- Authors who aren't permanent, or temporary staff of the university do not have profiles.

2.3 Functional Requirements

2.3.1 Publications

- Needs a title.
- Can have at least one author.
- Number of authors is unlimited.
- Venue must be specified.
- Type of paper must be specified.
- Should be classified (accredited or non-accredited).
- Only one person makes an entry for a paper written by multiple authors.
- One publication can belong to several research groups.

2.3.2 Profile

- No photos.
- Can be modified.
- Has to contain the following:
 1. Role of the person.
 2. Contact details.
 3. Office number

2.3.3 System

- Needs to email reminders for users that have set deadlines.
- Does not need APIs or external third-party applications to work.
- Keeps track of units accumulated by each user.
- Generates reports requested by various users within the hierarchy.
- Logs everything that happens on the system.
- Matches similar entries, i.e. If two or more users make an entry for the same conference, one after another, it should fill the rest of the details automatically.
- Maintains a history of publications and entries for each user.
- Needs to generate units by type of paper entered.
- Stores only metadata about the publications.