



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

Department of Computer Science

**COS 731**

**Software Engineering II**

**Project phase I**

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## 1 Deadline

6 September 2017 with interim submissions on every Wednesday in August.

## 2 Instruction

Design and implement one of the following two systems of your choice:

- Squeaky Clean
- Belissimo

The high level functional and architectural requirements for these systems are specified in a separate PDF.

## 3 Deliverables

The artefacts of your projects are

- Requirements and design documentation
- Implementation code and working prototype
- Project plan

Refer to the instructions for the requirements and design documentation as well as for the implementation of NavUP. Apply these to this project.

The project plan should be presented in a table with the following headings:

| Task | Estimate | Actual hours spent |             |        | Total |
|------|----------|--------------------|-------------|--------|-------|
|      |          | Resources          | Documenting | Coding |       |
|      |          |                    |             |        |       |

The project plan should be submitted **every week** and will be evaluated as part of the project marks. Your learning experience is more important than the correctness of your estimates. The reason that you are required to create and maintain this task list, is to provide practical experience in planning and estimation. It will not serve its purpose if you are not honest with yourself when filling in the fields as you go along.

The first version is due 2 Aug. The content should be based on the requirements and design specification, which need to be fairly complete. List all the tasks required to complete the entire assignment, including preparation and study tasks required to be able to complete the task. For each identified task, write your estimate before actually doing it. When doing each task, record the actual time you spend doing the task. You should update the information with each new submission of your implementation plan.

The following describe the fields of the required table in more detail:

**Task:** A brief description of the task – if applicable, refer to where it is described in more detail in your documentation. Tasks may change from submission to submission. A task description should, however, not change once you started working on the task. You may add new tasks.

**Estimate:** An estimate of the hours needed to complete the task. Be realistic. Rather over-estimate than under-estimate. The size of the tasks should allow for realistic time estimation. Break large tasks in smaller portions and bundle very small tasks in larger chunks. After you have started working on the task, the description and the estimate may not be altered anymore. You may, however, abandon a task and create new tasks in its place. Abandoned tasks must remain in your

**Resources:** Actual hours you spent on reading or finding resources to support completion of the task.

**Documenting:** Actual hours you spent on writing documentation associated with the task.

**Coding:** Actual hours you spent on writing code, debugging, writing tests associated with the task.