# Introduction

## Purpose

This document serves to fully specify and outline the requirements of the marking-system in detail. The document also serves to give the client and developers a clear description and elaboration of the system to be implemented in its totality. Furthermore, this document formulates an agreement between the client, Mr Jan Kroeze from the Department of Computer Science at the University of Pretoria, and developers with regard to the system to be built.

## Vision

The marking system aims to provide lecturers with the opportunity to centralize and digitalize the marking process for practical assessments carried out and evaluated during the practical sessions in the Informatorium (Computer Labs). The system will also allow Teaching Assistants (TAs) and Tutors to access the system during a booked practical session for a module in the specified lab, to record the marks of the students practical assessment onto the system, through the use of their mobile smartphones or computers provided in the practical session venue. The system will also allow the student to access his or her mark at a later stage to see how much they have acquired for that practical assignment. The aim of this system is to remove tedious paperwork and to prevent the loss of marks after the practical is complete.

## Scope

The scope of the Marking System project can be encapsulated as a solution that allows the users of the system to:

1. Record the practical assignments of the students.
2. To view the marks of the practical assignments at a later stage.
3. Keep all the marks on a centralized database.

The system shall be designed primarily for use by heads of departments, lecturers, teaching assistants, tutors, and students for the core and sole purpose of viewing, inputting and modifying student marks in a centralized environment.

## Exclusions

Nothing is to be excluded.

## Prioritisation

### Critical

-> System runs on all web browser platforms.

-> Application runs on android.

-> All marks are stored on a centralized database; no data is stored on any other nodes.

-> Audit log cannot be edited at all.

-> SOAP interface.

### Important

* TAs can edit and add marks during practical sessions.
* Lectures can set up a lock for mark sheets.
* Students can only view their marks after the practical.
* Should be an audit log for every change and action done.
* Students can only be marked by the TA assigned to them.
* If signal is lost while trying to update marks, should be saved by the browser temporarily till signal is restored.
* User must be logged in to access.
* Daily batch to the audit log to record what was changed.
* Progression and individual practical session marks.
* Reason for editing marks.
* Report system, display of graphs.
* Fitchfork marks exported.
* Automatically decide the best set of marks.
* Search for individual students.
* Journal of audit log.

### Nice to have

* Kick user out for inactivity.
* When marks are edited after practical lectures are emailed about changes.
* Specify weight of marks.
* Auto complete student number.