Requirements Document

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Lab assignment Requirements Engineering

" *The architecture giveth and the implementation taketh away.*"
- Len Bass, Paul Clements, Rick Kazman

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Contents

Document Status Sheet

Document status overview

General

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Document history

Version	*Date*	*Reason of change*
0.0	02-09-2015	Setup of the document layout
0.1	29-10-2015	Release version week 1

1 Introduction

Blabla.

2 Project Plan

The project plan for the first four weeks is explained in this chapter. The goal is to discover the services to be provided by the successor of Blackboard. We base our project plan on the requirements lifecycle in [2] (chapter 1.1.6). This book identifies four phases of requirements engineering;

1. Domain understanding and elicitation.
2. Evaluation and negotiation.
3. Specification and documentation.
4. Quality assurance.

During the first week we will get familiar with the problem world, as described in [2]. We will investigate the system-as-is ourselves, and ask users (students) about their experiences. We will work trough the questions listed in the relevant section in the book. We will also compose a list of stakeholders, which we interview in the coming weeks.

Week 2 will resolve around the second phase: evaluation and negotiation. During this week we will interview remaining stakeholders, to verify and add upon the information we gathered in the first week. Interviewing all relevant stakeholders is crucial during this week, as it is a required input to this the evaluation and negotiation phase, and subsequent phases. Due to limited time we can interview maximally 3 stakeholders per group. If a stakeholder is not readily available we will not use his/her input in the requirements engineering process.

During week 3 we will draft an initial set of requirements. After week 3 the first draft version of the Requirements Document is finished. We will focus on the smallest set of requirements that together realize (most of) the business goals, due to limited time.

In week 4 we will plan meetings with relevant stakeholders to asses the set of requirements we drafted for the new system. Assessment focuses on whether we forgot crucial requirements and if the requirements are consistent.

Note that we conduct one round of the spiral model, see Figure 2.1. There will be some backtracking to other phases (previous weeks), because some information becomes available after the relevant week/phase.

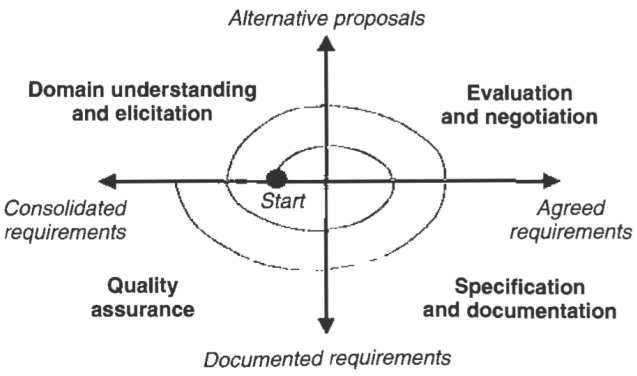

Figure 1.6 *The requirements engineering process*

Figure 2.1: Spiral Model of requirements lifecycle

3 Domain Analysis

3.1 Glossary of terms

List all relevant terms in the problem world

3.2 Organization

The organization in which Blackboard is used is the University of Amsterdam (UvA).

The organization within which the system-as-is takes place: its structure, strategic objectives, business policies, roles played by organizational units and actors, and dependencies among them.

3.3 Scope

The scope of the system-as-is: its underlying objectives, the components forming it, the concepts on which it relies, the tasks involved in it, the information flowing through it, and the constraints and regulations to which the system is subject.

3.4 Stakeholders

- Users: Both students and teachers
- Management:
- Blackboard (company):

The set of stakeholders to be involved in the RE process.

3.5 Strengths and Weaknesses

Students:

+ Easy way to access course specific information.
+ Latest schedule of course.
- Hard to use in the beginning.
- Only marginal functionality used, e.g. "We *have* to use it."

The strengths and weaknesses of the system-as-is, as perceived by the identified stakeholders.

3.6 Domain facts

4 References

[1] Jan Bosch, *Software Architecture: The Next Step*, University of Groningen, Department of Computing Science

[2] Axel van Lamsweerde, *Requirements Engineering: From System Goals to UML Models to Software Specifications*