

User Requirements Document

Group 1

April 24, 2013

Abstract

- ⁵ This is the User Requirements Document for the Software Engineering Project. This document is based on the ESA standard for software development and the work of many previous SEP groups.

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Document Status Sheet

General

Document title: User Requirements Document
Identification: Choose some id, e.g.: SQAP0.0.pdf
Author:
Document status: Draft

Document history

<i>Version</i>	<i>Date</i>	<i>Author</i>	<i>Reason of change</i>
version	date	author	reason

30

Document Change Records since previous issue

General

Datum: 2012-07-09
Document title: Software Quality Assurance Plan
Identification: SQAP0.0.pdf

Changes

35

<i>Page</i>	<i>Paragraph</i>	<i>Reason to change</i>
pageref	ref	reason

Chapter 1

Introduction

1.1 Purpose

This document describes the procedures and control methods to obtain the desired quality
40 level of the end products and the process by which these end products are created. This
document serves as a guide for the managers and developers of the **Project Name** project. All
team members must read this document and apply the procedures stated in it. The document
applies to all phases of software development as defined in the Project Management Plan [?
]. Detailed information about the software quality assurance activities for these phases will
45 be added in appendices during the project.

1.2 Scope

A list of software products to be developed and their intended use.

1.3 List of definitions

2IP35	The Software Engineering Course
AD	Architectural Design
ADD	Architectural Design Document
AT	Acceptance Test
ATP	Acceptance Test Plan
Client	The client
CM	Configuration Manager
DD	Detailed Design
DDD	Detailed Design Document
ESA	European Space Agency
TU/e	Eindhoven University of Technology
OM	Operations and Maintenance Plan
PM	Project Manager
QM	Quality Manager
SCMP	Software Configuration Management Plan
SEP	Software Engineering Project
SL	Software Librarian
SPMP	Software Project Management Plan
SQAP	Software Quality Assurance Plan
SR	Software Requirements
SRD	Software Requirements Document
STD	Software Transfer Document
SUM	Software User Manual
SVVP	Software Verification and Validation Plan
SVVR	Software Verification and Validation Report
TR	Transfer phase
UR	User Requirements
URD	User Requirements Document
VPM	Vice Project Manager

50 1.4 List of references

TODO: only all applicable documents!

1.5 Overview

Short description of the rest of the SRD and how it is organized.

55 **Chapter 2**

General description

2.1 Product perspective

The relation to other systems

2.2 General capabilities

60 The main capabilities.

2.3 General constraints

Reasons why constraints exist: background information and justification.

2.4 User characteristics

The characteristics of the different user roles.

65 **2.5 Environment description**

A description of the operational environment.

2.6 Assumptions and dependencies

The assumptions upon which the specific requirements (in the next section) are base.

Chapter 3

70 Specific requirements

3.1 Capability requirements

A list of all capability requirements (what should the system do).

01	<i>could have</i>
<hr/>	
02	<i>must have</i>
<hr/>	
03	<i>could have</i>
<hr/>	
04	<i>should have?</i>
<hr/>	
05	<i>must have</i>
<hr/>	
06	<i>could have</i>
<hr/>	
07	<i>must have</i>
<hr/>	
08	<i>could have</i>
<hr/>	
09	<i>must have</i>
<hr/>	
10	<i>should have</i>
<hr/>	
11	<i>should have</i>
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12	<i>should have</i>
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13	<i>should have</i>
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15	<i>should have</i>
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16	<i>should have</i>
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17	<i>should have</i>
<hr/>	
18	<i>should have</i>
<hr/>	
19	<i>should have</i>
<hr/>	

3.2 Constraint requirements

A list of all constraint requirements (interfaces, portability, adaptability availability, security, safety, standards, resources, time scales, ...).

01	<i>must have</i>
The interface contains a canvas which represents the mixing area	
02	<i>should have</i>
The user can define the initial concentration distribution by painting on the canvas with his/her finger	
03	<i>must have</i>
The interface contains an easy to use input element to define the sequence of movements of the mixing protocol (i.e. a button or by swiping over the screen)	
04	<i>must have</i>
The interface contains a numberfield to set the step parameter of the mixing protocol	
05	<i>must have</i>
Waiting time between submitting input and receiving output should not be more than 5 seconds	
06	<i>should have</i>
Waiting time between submitting input and receiving output should not be more than 3 seconds	
07	<i>could have</i>
Waiting time between submitting input and receiving output should not be more than 1 seconds	