TU/e

Project FINGERPAINT

Review-0.6

Review Document

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Abstract

This document contains a collection of all review documents for several documents of FIN-GERPAINT that have to be created and delivered for the Software Engineering Project (2IP35). The review document is based on the conventions listed in the Software Configuration Management Plan (SCMP) [1].

Contents

1	Intr	oduction 5
	1.1	Purpose
	1.2	List of references
	1.3	Overview
2	UR	D Feedback 6
	2.1	Title page 6
		2.1.1 External reviews
	2.2	Abstract
		2.2.1 External reviews
	2.3	Chapter 1
		2.3.1 External reviews
		2.3.2 Internal reviews
	2.4	Chapter 2
		2.4.1 External reviews
		2.4.2 Internal reviews
	2.5	Chapter 3
		2.5.1 External reviews
		2.5.2 Internal reviews
	2.6	Appendix A
		2.6.1 External reviews
		2.6.2 Internal reviews
	2.7	Appendix B
		2.7.1 Internal reviews
3	SRI	D Feedback 25
	3.1	Title page
	3.2	Abstract
	3.3	Chapter 1
	3.4	Chapter 2
	3.5	Chapter 3
		3.5.1 Internal reviews
	3.6	Chapter 4

4	SCI	MP Feedback	32
	4.1	Abstract	32
		4.1.1 Internal reviews	32
	4.2	Chapter 1	32
		4.2.1 Internal reviews	32
	4.3	Chapter 2	33
		4.3.1 Internal reviews	33
	4.4	Chapter 3	34
		4.4.1 Internal reviews	34
	4.5	Chapter 4	34
		4.5.1 Internal reviews	34
	4.6	Chapter 5	36
		4.6.1 Internal reviews	36
	4.7	Chapter 6	37
		4.7.1 Internal reviews	37
	4.8	Chapter 7	38
		4.8.1 Internal reviews	38
5	\mathbf{SVV}	VP Feedback	39
	5.1	Chapter 1	39
		5.1.1 Internal reviews	39
	5.2	Chapter 2	39
		5.2.1 Internal reviews	39

Document Status Sheet

General

Document title:	Review Document
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Document status:	URD feedback up and to version 0.3

Document history

Version	Date	Author	Reason of change
0.0	24-Apr-2013	Tessa Belder Femke Jansen	Included internal reviews on URD-0.0.
0.1	26-Apr-2013	Benjamin van der Hoeven Roel van Happen Hugo Snel	Included internal reviews on URD- 0.1.
0.2	2-May-2013	Roel van Happen Hugo Snel	Included internal reviews on URD- 0.2.
0.3	2-May-2013	Femke Jansen	Included external reviews on URD- 0.2.
0.4	2-May-2013	Benjamin van der Hoeven Femke Jansen	Included internal reviews on URD-0.3.
0.5	6-May-2013	Tessa Belder Femke Jansen	Included internal review on SCMP- 0.1.
0.6	6-May-2013	Femke Jansen	Included internal review on SVVP- 0.0.
0.6	17-May-2013	Tessa Belder Hugo Snel	Included internal review on SRD-0.0.

Chapter 1 Introduction

1.1 Purpose

This document contains the collection of all review documents, both internal reviews and external reviews. It is used for documentation and later reference.

1.2 List of references

- [1] Group Fingerpaint, "Software configuration management plan," SEP, 2013.
- [2] Group Fingerpaint, "User requirements document," SEP, 2013.
- [3] Group Fingerpaint, "Software requirements document," SEP, 2013.
- [4] Group Fingerpaint, "Software validation and verification plan," SEP, 2013.

1.3 Overview

Each chapter corresponds to one document and contains all the feedback on this document. The chapters are organized according to the newest version of each of the documents; we distinguish between internal and external reviews and will also list the name of the person or group of persons that provided the feedback.

The following deliverables are reviewed in this document:

- User Requirements Document [2] (chapter 2)
- Software Requirements Document [3] (chapter 3)
- Software Configuration Management Plan [1] (chapter 4)
- Software Validation and Verification Plan [4] (chapter 5)

Chapter 2

URD Feedback

2.1 Title page

2.1.1 External reviews

Junior Manageme	ent	Version 0.3
Location/reference	Category	Remark
title page	Missing	Maybe include student numbers and room numbers for staff (as in other URD's).
Technical Advisor		Version 0.3
Location/reference	Category	Remark
title page	Missing	The advisor is not just an advisor: more explicitly, he is a technical advisor.
Client		Version 0.4
Location/reference	Category	Remark
title page	Incorrect	The client's room is GEM-Z 4.137, not GEM-Z 4.147.

2.2 Abstract

2.2.1 External reviews

Junior Mangeme	nt	Version 0.3
Location/reference	Category	Remark
Abstract	Missing	State that this document was based on discus- sions with your client and that it conveys their wishes.

Technical Advisor	r	Version 0.3
Location/reference	Category	Remark
Abstract	structure	Change "how it should function and in what environment it should function" to "how and in what environment it should function".

2.3 Chapter 1

2.3.1 External reviews

Junior Management Version 0.3				
Location/reference	Category	Remark		
1.1	Structure	You might consider rephrasing the sentence "All of the listed requirements". We just assure that some requirements will be implemented, but not all requirements.		
1.1	Other	The sentence "mixing on a mobile device" im- plies that you are bound to specific hardware. The application should be cross-platform.		

Technical Advisor Version 0.4			
Location/reference	Category	Remark	
1.3.1	Layout	Colons should be added to the definitions list.	

2.3.2 Internal reviews

Tessa Belder		Versio	on 0.1
Location/reference	Category	Remark	
1.3	Missing	URD is missing from the list.	
		Versio	on 0.3
1.2	Туро	'developed by Group Fingerpaint group' 'group'.	– 2x

Location/reference	Category	Remark
1.2	Incorrect	'Users can define the initial concentration' should be 'can define the initial concentration distribution'.
1.3.1	Missing	'iPhone' should be added here, since it is used in section 2.2.2.
1.3.2	Other	'TBC' and 'TBD' can be removed from this list, as they aren't used in this document.
1.3.2	Missing	'PC' should be added here, since it is used in section 2.2.2.
1.5	Missing	The appendices aren't mentioned here, and they should be.

Femke Jansen		Version 0.0
Location/reference	Category	Remark
abstract	missing	The abstract is very short and could use some more information; see the template for scmp.pdf as an example. You could mention in the abstract that this document is part of the SEP project and what can be found in this document (a very brief description).
1.1	Structure	I would change the beginning to this sentence to "This document", because you already men- tioned in the abstract that this document is the URD.
1.2	Question	I believe that the client mentioned that the original goal was to find the optimal mix as soon as possible. Should we mention that here as well?
1.5	Туро	"remainder" should be "remaining" in "The re- mainder chapter"
1.5	Structure/layout	I would change the layout/text in the list to something like: * The relation to other systems (2.1) * The main capabilities (2.2) * etcetera. That would make the list more readable, I be- lieve.

Hugo Snel Location/reference	Category	Version 0.3 Remark
1.1	Туро	"full consent"; 'full' is kind of weird. You con- sent or you don't.

2.4 Chapter 2

2.4.1 External reviews

Junior Mangeme	nt	Version 0.3
Location/reference	Category	Remark
2.1	Inconsistent	In this paragraph you talk about mobile de- vices, while it should be cross-platform.
2.1	Other	The sentence "after which output should be shown on the screen" is unclear and ambigu- ous.
2.1	Other	You talk about sending constraints to the server as a black box, but I think there's too much detail about the black box and how it will work. Just say it is present and you leave the complicated computations to them and you do the visualizing and formatting.
2.2.1	Incorrect	The system should not be able to simulate the flow, as you just said that you leave the com- putations to the server. You will only visualise the results of these computations.
2.2.1	Other	The sentences "given some constraints. There are a number of constraints to be specified" are redundant, as you already said that there are some constraints in the first sentence.
2.2.1	Other	The sentence "can be specified by tapping on and dragging over the screen" is unclear and ambiguous. What you're actually doing is making an app that can specify these con- straints (it should be noted somewhere before additional capabilities).
2.2.2	Missing	From the sentence "When the initial param- eters have been set, the computations are of- floaded to a server" it is not clear what your ca- pabilities are. Your capability is sending these to the server and retrieving results.

Location/reference	Category	Remark
2.2.2	Other	"should be exportable topng or .pdf" is very specific. Maybe there's a better way you didn't think of yet. Here you should probably say: "We need to be able to export it to a standardised animated format (solution space rather than problem space).
2.2.2	Missing	It is in general not clear that we can actually visualise the returned results.
2.3	Other	You use a lot of pretty words and long sen- tences, but actually you're not really saying what you want to say. For instance, just say that you assume that the server computation does not take too long and thus visualisation can be handled quickly. That clarifies things much more and the sentences also get shorter.
2.4	Missing	This section is more for different stakeholders. Although in this case, I feel there is actually only one. Still, it might be beneficial to de- scribe WHO your user is (in terms of position, not person) on top of what this person can do.
2.4	Missing	In the sentence "after the application has sent these off to the server, should be able to view the results" it is unclear which results you're talking about.
2.5	Question	You say "intermediate results are sent back to the mobile device for displaying", but is this really the case? Does the server not simply finish a step and then send it back, then cal- culate the next step? "While solving, return some stuff" is a bit vague.
2.5	Missing	Maybe you can make one of those domain mod- els, even though it will be small.
2.6	Question	"Therefore, we assume this server always an- swers within a few seconds", but you should also have some basic error handling at least, right? I think it is not a good assumption that the server ALWAYS responds within a few sec- onds.
2.6	Missing	What about the assumption that the server in fact gives a correct solution? Or the assump- tion that the mobile device doesn't lose con- nection to the internet?

Technical Adviso	r	Version 0.3
Location/reference	Category	Remark
2.1	Question	In the sentence "we are to use it as a black box to which we can send constraints and a vector", it is unclear what the vector is. Is this an implementation detail? If this is the case, it should not be mentioned in this document
2.2.1	Question	What do you mean with the sentence "It is possible to both specify"? Perhaps you can insert a few comma's in this sentence or you can re-write it to make it more clear.
2.2.2	Missing	In the sentence "A history of past simulations to compare previous runs with the current", I would change "current" to "current run", be- cause now it is unclear what "current" is.
2.3	Inconsistent	"The user interface without much hassle" contains both present time and past time writ- ing. Try to stick to writing in one particular time.
2.3	Structure	In general, I see the word "so" quite often, but try to use some other words for "so" as well.
2.5	Question	Where does "parameters described above" re- fer to? It doesn't appear to be in the previous paragraph in this section, so try to be more clear in which section you described these pa- rameters.
2.6	Туро	In "As a mentioned", "a" should be "we", I believe.
2.6	Missing	In the sentence "Therefore, we assume this server" I would add the word "that", to ob- tain the sentence "Therefore, we assume that this server".

Client Location/reference	Category	Version 0.4 Remark
2.2.1	Incorrect	The sentence 'It is not possible to use any other method than the free-form drawing described here' conflicts with the requirements in chapter 3.
2.3	Missing	The meaning of 'reasonably' in the sentence 'We assume that the server can compute the displacement of the fluids reasonably fast' should be specified.

CHAPTER 2. URD FEEDBACK

FINGERPAINT

Location/reference	Category	Remark
2.3	Question	Where do you store the attributes of a saved run?

2.4.2 Internal reviews

Tessa Belder		Version 0.1
Location/reference	Category	Remark
2.2	Missing	The sentence "The third parameter to be spec- ified is " is unfinished.
2.2.1	Structure/Layout	The sentence "It is possible to both specify an entire protocol consisting of multiple wall movements, and to only execute one step at a time." sounds like you can do two things at the same time. I would change it to: "It is both possible to specify an entire protocol consist- ing of multiple wall movements, and to only execute one step at a time."
2.2.1	Missing	There is no information included about the parameter '#steps' which defines how many times the defined mixing protocol is executed.
2.2.1	Incorrect	"The fourth parameter is the initial concen- tration of the fluids," should be: "The fourth parameter is the initial concentration distribu- tion of the fluids,"
2.2.1	Missing	"If desired, it is also possible to load an ex- isting initial distribution." This should be "If desired, it is also possible to load an existing or predifined initial concentration distribution."
2.2.2	Structure/Layout	"When the final result has been computed, this result is of course sent back to the mobile de- vice" Sounds a little weird, I would leave the 'of course' out."
2.2.2	Incorrect	"to easily sharable formats, such as .png or .pdf" We changed this to vector graphics.
2.2.2	Structure/Layout	"or to start over with the original initial con- centration distribution" You can start over with 'a new' initial concentration distribution, not with 'the original' initial concentration dis- tribution.
		Version 0.3
2.1	Incorrect	'to compute the flow of the fluids' – The server doesn't compute the flow, it computes the new concentration distribution.
2.1	Incorrect	'for the flow of the fluids' – Again, not the flow of the fluids, just the resulting concentration distribution.
2.1	Incorrect	'can compute the flow of the fluids' – The same as above.

Location/reference	Category	Remark
2.2	Incorrect	'able to compute the flow of the fluids' – Same as above.
2.2.1	Incorrect	'The fourth constraint is the initial concentra- tion of the fluids' – Should be 'initial concen- tration distribution of the fluids'.
2.2.2	Incorrect	'the computation of the flow' – Should be 'the computation of the new concentration distribution'.
2.2.2	Incorrect	'via a two-dimensional image of the fluid dis- tribution' should be 'of the fluid concentration distribution'.
2.2.2	Incorrect	'It should also be possible to save entire runs as an animations'- <i>i</i> , this is a 'could' and not a 'should'.
2.2.2	Incorrect	'or to start over with the original distribution' -i Actually this is not always possible; you can reset it to an entire white distribution, or, if you've saved the original one, you can load it again.
2.3	Incorrect	'to quickly try out new ideas for mixers' $-i$. You can't try a new mixer, you can try new proto- cols / new initial concentration distribution.
2.3	Incorrect	'the server can compute the flow of fluids' $-i$. Same mistake again.
2.3	Incorrect	'when the flow has been computed' $-i$ Again, flow isn't computed.
2.3	Incorrect	'As mentioned before, it should be possible and the resulting performance metric' $-i$. You can't export mixing runs, you can only save them within the application. You can only ex- port the image of the final concentration dis- tribution, the performance graph, and the an- imation of the mixing run.
2.4	Incorrect	'to quickly try out ideas for mixers' –¿ Can't try out a new mixer, only new protocols / ini- tial concentration distributions.
2.4	Incorrect	'The user can change the shape and character- isitics of the mixer' $-i$. Well maybe later, but these are options to be included later, not the main idea of the application.
2.5	Incorrect	Figure 2.1: arrows 3, 4 and 5 talk about flow, should be concentration distribution.
2.5	Incorrect	Second assumption talks about flow. Again not correct.

Roel van Happen		Version 0.2
Location/reference	Category	Remark
2.2	Inconsistent	Third parameter is not exactly a parameter for the algorithm.
2.4	Туро	"The user can then store these results to reference later" \rightarrow "The user can then store these results for reference later."
		Version 0.3
Appendix B, Use case B.20 & B.21	Missing	Navigation to the history interface is missing in both use cases

Femke Jansen Location/reference	Category	Version 0.0 Remark
2.2 (description)	Missing	In this paragraph, the "movement of the walls" is mentioned, but we didn't mention the "walls" as a mixing protocol in earlier sections. Perhaps changing it to something like this will clarify it a bit more: " given some constraints and initial concentration of the fluids. The con- straints are described through a mixing proto- col and consists of a sequence of transforma- tions that are applied to the selected geometry. In case of a rectangular geometry, for instance, the sequence consists of 'wall movements': the fluid can be manipulated by moving an upper and lower wall for a specified amount of steps."
2.2	Structure	I would explain the example as a new sentence, instead of placing it within brackets in the cur- rent sentence. In general, using long sentences within brackets can decrease the readability of the text.
2.3	Missing	A third parameter is started to be explained, but the sentence is not finished. "The third parameter"
2.4	Structure/Layout	I would change this to "As mentioned before". Now, it seems like the focus lies on the "being documented" part, whereas you probably only want to say that you mentioned this earlier in this chapter.

CHAPTER 2. URD FEEDBACK

FINGERPAINT

Hugo Snel		Version 0.1
Location/reference	Category	Remark
2.1	Other	"Should be provided to" \rightarrow "allows to". We're not provided with any interface
2.1	Inconsistent	"initial details" \rightarrow initial concentration distribution. This is consistent with chapter 3.
2.2	Inconsistent	"is the protocol for moving the mixer" \rightarrow "is the protocol for moving the geometric compo- nent"
2.4	Туро	"results to reference later" \rightarrow "results for later reference"
2.5	Structure/Layout	"Apple iPhones and Android phones or tablets" \rightarrow "Apple and Android mobile devices"
2.5	Other	"the hard work of computing the matrices" \rightarrow "the hard work of computing". The fact that matrixes are used is an implementation detail that the reader should not be aware of in "En- vironment description".
2.5	Structure/Layout	"will be distributed to" \rightarrow "send to". You distribute to >1 servers , you send it to 1 server.
		Version 0.3
2.1	Туро	"the user should be able to specify initial pa- rameters." Can be interpreted as 'the user can define new initial parameters'
2.1	Other	"intuitive and attractive user interface." Don't call it 'attractive', hard to quantify.
2.1	Туро	"where it can be visualised." \rightarrow "Will be"
2.1	Туро	"is impossible to comfortably use this solution on a mobile device." Is it possible at all? If not, don't emphasize on 'comfortable', and leave it out.
2.2.1	Incorrect	"is fixed for the entire protocol.". It's not fixed, the user should be able to change it for each step.
2.2.1	Inconsistent	If you mean 'change D in the positive direction' type "+D". Just 'D' looks like you mean the
		variable D, instead of D in the positive direction.

Location/reference	Category	Remark
2.2.2	Other	You talk about the "Client's server", "client device". The case of c is the only difference. This is not very clear for a non-computer sci- entist.
2.2.3	Other	"easy to share the visualised results". Don't call it 'easy', hard to quantify.
2.2.3	Incorrect	"flow of fluids reasonably". It does not com- pute flow, it computes the resulting concentra- tion distribution. Idem for other occurrences of "Flow"
2.2.3	Other	"We will concentrate on mobile devices." -> "Our main focus is mobile devices"
2.2.3	Inconsistent	Initial distribution –¿ Initial concentration dis- tribution
2.2.3	Inconsistent	the resulting fluid distribution" -> Concentra- tion distribution. Idem for other occurrences of "fluid distribution"
2.2.5	Incorrect	"The main device for the user interface is the mobile device." User interface -> FINGER- PAINT application
Figure 2.1	Incorrect	Change to-> 3. Computes resulting concentra- tion distribution. 4. Send resulting concentra- tion distribution. 5. Visualise resulting
Figure 2.1	Missing	Missing a label "User" below the stick figure
2.6	Question	1st bullet; Is there really already a connection? I think we need to make this ourselves. What we assume is that both sides(=devices) have access to the internet to allow for internet pro- tocol communication.
2.6	Question	2nd bullet; Do we assume the server already has an internet protocol to communicate? I think we need to make this ourselves.

2.5 Chapter 3

2.5.1 External reviews

Junior Managem	ent	Version 0.3
Location/reference	Category	Remark
3	Incorrect	The sentence "any requirements following from further requests will be added here" is not correct: we won't just add any requirements that are requested. Also, after signing the URD, there should not really be any more changes/additions.
3.1	Structure	It might be nice to have more hierarchy for the requirements (as in the review checklist: coherent groups).
3.1	Inconsistent	Formats are named in these constraints, while others are named in previous chapters (.SVG here, .GIF there). Try to make this consistent.
CPR03 & CPR04	Other	Maybe you can split these requirements, so you can always try to achieve one of them.
CPR06 & CPR17	Other	Why do you use a list? This seems like a solution space instead of a problem space.
CPR09 & CPR18	Question	What does "reset" mean here?
CPR10	Other	This requirement is ambiguous: can he save by drawing or can he save a drawing?
CNR02 & CNR03	Other	Maybe you can split-up the browsers, so you can do them individually.
CNR07 & CNR08 & CNR09	Other	We cannot ensure that this is ALWAYS the case. Maybe the "mean/average access time" is a better term.
CNR10	Other	The sentence "should be easily extendable" is ambiguous. Maybe there are more wishes in the Software Engineering sense, such as eas- ily extending mixing patterns, easily extending it for different platforms, easily scaling things (but perhaps with a lower priority).

Technical Advisor Vers		
Location/reference	Category	Remark
CPR04	Question	You mention that the "user can define an ini- tial concentration distribution with black and white", but what are these "black and white" exactly? Do they refer to colors?
CPR21	Туро	"an image of the end result" should be "end- result".
CPR24	Question	What do you mean in the sentence "an anima- tion of applying the mixing protocol"?

Location/reference	Category	Remark
CPR29	Туро	"mixng performance" should of course by "mixing performance", I assume.
		Version 0.4
3	Incorrect	Usecases are based upon requirements, not the other way around.
Client		Version 0.4
Location/reference	Category	Remark
CPR20	Incorrect	The protocol for a circle geometry is not de- fined by a sequence of rotations of the circle.

2.5.2 Internal reviews

Tessa Belder		Version 0.1
Location/reference	Category	Remark
3.1 & 3.2	Missing	Explanation is missing about what exactly ca- pability/constraint requirements are.

Roel van Happer	Roel van Happen Version 0.2		
Location/reference	Category	Remark	
CPR 5 & 7	Question	Isn't 7 an extension of 5?	
CPR 8	Other	Vague	
CPR10	Incorrect	Isn't 6 supposed to be 9?	
CPR13	Incorrect	Isn't 9 supposed to be 12?	
CNR 10	Inconsistent	It has priority 'should have', while the interface is required for this function has priority 'could have'.	

Femke Jansen Location/reference	Category	Version 0.0 Remark
3.1	Туро	"off" should be "of" in "and constraints off the application"
3.1 (CPR 10 & 13)	Incorrect	CPR10 should refer to CPR09 and CPR13 should refer to CPR12.

Location/reference	Category	Remark
3.2	Incorrect	The order/IDs of the constraint requirements are incorrect, as we have duplicate IDs. All IDs must be incremented by one starting from the CNR13 I mentioned. starting from CNR13 'should have'

Benjamin van de	r Hoeven	Version 0.3
Location/reference	Category	Remark
3	Missing	We have chosen not to specify interfaces, be- cause we want to have options when designing these. Also, this is more of a developer detail than a customer need, as the customer does not really care how exactly the interfaces look, as long as they are functional and intuitive. How- ever, none of this is documented in the URD.
3.1	Missing	CPR23 should reference a constraint that specifies that it is possible to execute the mix- ing protocol. As it is now, this constraint ac- tually specifies two constraints, one of which is only implicitly mentioned.
3.1	Other	CPR24 and CPR27 contain solutions. We specify that we will use vector formats, but this is not a customer need. Therefore, this part should be removed.

Hugo Snel		Version 0.3
Location/reference	Category	Remark
3.1	Structure/Layout	The priorities should be listed in list-format instead of the current 'newline-format'
3.1	Other	"could have" talks about 'budget' whilst there is no financial compensation. This seems a bit odd.
3.1	Incorrect	"won't have" talks about "this version", whilst the requirements describe only the final deliv- erable. This seems a bit odd.
3.1 & 3.2	Structure/Layout	For all requirements with 'save' \rightarrow 'Save and manage'. If you have access to store it, access to delete is kind of implicit (in b4 memory over- flow). This would make all 'is able to delete" requirements obsolete.

Location/reference	Category	Remark
3.1 & 3.2	Structure/Layout	Sort the table on importance. First all "must have", then "should", then "could".
CPR 7	Туро	should be "can define a Stepsize" or "can define a time period." Not both.
CPR 7	Missing	Say something about a "fixed period" (otherwise the difference with the dynamic stepsize in 08 isn't clear).
CPR 8	Missing	Mention that stepsize can be adjusted in be- tween steps (it is a dynamic stepsize)
CNR 12,13,14	Structure/Layout	replace with "The application is compatible with devices running"

2.6 Appendix A

2.6.1 External reviews

Junior Management Version 0		
Location/reference	Category	Remark
Appendix A A.2	Missing Questions	Add alternatives, if necessary. What are the details in the storage of step 6? Will the exports of the results also be deleted?

Technical Adviso	r	Version 0.3
Location/reference	Category	Remark
Appendix	Structure	Perhaps you can omit the preconditions and instead include the necessary use cases as an additional step in the use case.
Appendix	Missing	Now, it is not directly clear how the use cases are related; perhaps you could add a Use Case Diagram with a "precedes" relation to indicate the preconditions.
A.3	Incorrect	The first step in this use case is that the FIN- GERPAINT application gives a response, but now it seems that the application triggers the use case. This seems a bit strange, because it is a use case for users.
A.3 & A.5	Question	Is the confirmation message in step 7 from A.3 and step 7 from A.5 the exact same confirma- tion message? You're mixing general descrip- tions with specific descriptions, try to stick to one of them.

Location/reference	Category	Remark
A.7	Question	Is the priority of this use case correct? It seems that selecting a geometry and mixer is quite important for the application.
A.9	Question	What does the Load C_0 button do? It is not clear what it does from the name of this button.
A.10	Question	Why is the first step numbered as 0? Is it different from the other use cases?
A.10	Structure	I would change "Increments/decrements value in the display" to "Increments/decrements value and displays the change in the display"
A.11 & A.12	Inconsistent	The numbering from the use cases mentioned in step 3 appear to be inconsistent with the actual use cases listed.
		Version 0.4
Appendix A	Missing	The actors should be added to the use case diagram.

2.6.2 Internal reviews

Benjamin van de	r Hoeven	Version 0.3
Location/reference	Category	Remark
A	Other	Yellow background is probably not suitable for printing, and also looks slightly unprofessional.

Femke Jansen		Version 0.3
Location/reference	Category	Remark
А	Туро	"use-cases" should be "use cases".
А	Missing	Perhaps also explain what the <i>Preceeds</i> and <i>Uses</i> relationships mean, although we know what this means, the client might not.

2.7 Appendix B

2.7.1 Internal reviews

Benjamin van der HoevenLocation/referenceCategoryRemark			Version 0.3
B	Other	Third person sounds a bit odd.	
B	Typo	No closing '.'.	

Location/reference	Category	Remark
В	Other	For alternatives: say why the alternative takes place.
B.1	Other	To define a mixing geometry and mixer, the user should first tap the "Start mixing" but- ton. I'd think that this button means that the mixing starts now, not that I first have to do all kinds of things before the mixing actually starts.
B.2 and others	Other	Alternative 6: Which mixing interface?
B.4 and others	Other	"B.1 or B.2 or B.3" should be "B.1, B.2 or B.3".
B.4 and others	Other	Use "and" instead of "&".
B.5 and others	Туро	"succesfull" \rightarrow "successful".
B.5, B.11, B.12, B.14, B.15, B.16	Other	Why is a message shown when the save was successful? It would only be an annoying pop- up that the user would have to click away. I'd only show a message if the save was unsuccess- ful.
B.7	Question	Is it possible that there are no saved protocols? I thought that either we would not implement this feature or the client would provide us with predefined protocols.
B.8 and others	Туро	Inconsistent spacing.
B.8	Question	Remark is not clear.
B.9	Other	Maybe refer to use cases by name, not just by section number.
B.10	Question	What is the protocol-log?
		Version 0.5
B.9	Туро	protoco.l \rightarrow protocol.
B.10	Other	The Alternative of this use case is unclear: the numbering goes from 8 to 5 to 6, making it unclear when a failure to connect actually happens.
B.10	Other	Forward reference to Alternative R.2. I was unable to find this alternative without using the search function, because I was expecting it to be somewhere in use cases B.1 until B.9. Also, I'm not sure whether this is the correct alternative.

Femke Jansen		Version 0.3
Location/reference	Category	Remark
Figure 2.1	Question	What are those use cases listed above the dia- gram? Do they have no relations to other use cases? Maybe you can clarify this a bit.
Figure 2.1	Missing	In the use case B.8, you mention B.4, B.5, B.6 or B.7 as actor actions that have been taken earlier. In the use case diagram, however, there is no direct arrow between B.4 and B.8.
Figure 2.1	Question	Is it an idea to also include the IDs (B.x) of the use cases in the use case diagram? I think this might clarify things even more.
Figure 2.1	Inconsistent	Use case B.20 is called "remove concentration distribution", but the use case listed in figure 2.1 says "remove initial concentration distribution"

Chapter 3

SRD Feedback

3.1 Title page

No feedback has been given on this part of the document.

3.2 Abstract

Hugo Snel Location/reference	Category	Version 0.0 Remark
Abstract	Missing	One of which assignments? Now it feels like it is incomplete. Saying its for the SEP course is enough in my opinion.
Document Status Sheet	Incorrect	It is version 0.0 even though it has a previous issue. I would say remove the template from the history.

3.3 Chapter 1

Hugo Snel Location/reference	Category	Version 0.0 Remark
Purpose	Structure	The last sentence seems out of place for the section "Purpose".
Scope	Incorrect	"can be stored and analysed by the user" Analysing is not part of the functionality pro- vided by the application, therefore I wouldn't mention it in the scope of our project.

3.4 Chapter 2

CHAPTER 3. SRD FEEDBACK

FINGERPAINT

Hugo Snel	Catagama	Version 0.0
Location/reference	Category	Remark
2.2	Other	Last 2 sentences. I would say smth like 'FIN- GERPAINT is no longer responsible for the ap- plication after the final deliverable produced in the SEP course'. It's more to the point than saying 'the client takes over these responsibili- ties and can make further changes'.
2.3	Other	I would replace 'playing' with Interacting. Playing is more "speeltje"-like.
2.3	Other	"This leads to a better understanding of the user" You don't understand the user, you un- derstand the mixing process.
2.3	Other	last sentence. I would remove "recently thought of" from this sentence.
2.4	Туро	It should be 'version' instead of 'versions'. You refer to 1 version, and then add 'and above'. This is also consistent with section 3.2.6
2.4	Missing	"We will test the application on the following screen resolutions:". Ok, we will test it, but we will also make it work for these resolutions right? Seems trivial but it's not mentioned anywhere.
2.5	Туро	Remove 'on itself'.
2.6	Incorrect	 "We assume that the server can compute the displacement of fluids reasonably fast, so the visualisation of results can be handled quickly." Visualisation is a separate process, so its not "so" because they're not related. It would be "so the mixing run can be executed quickly". But the server speed does not influence the visualisation speed.
2.7	Туро	"A graphical representation of these relation between those tiers and channels" $-$ > "A graphical representation of the relation be- tween tiers and channels".
2.7.1	Missing	"GUI" isn't introduced as an abbreviation any- where.
2.7.2	Missing	"system administrator" isn't introduced any- where. Also we don't ever talk about how the application will be distributed or how it will be maintained in the future. It is not in the contract nor in the scope of our project, thus I would not talk about it.
2.7.4	Туро	"are ran" -> run.

3.5 Chapter 3

3.5.1 Internal reviews

Tessa Belder		Version 0.0
Location/reference	Category	Remark
SRQ5 & SRQ12	Question	Is this true? Isn't this unnecessary compli- cated? Just remove and add a new one would also do the trick, so I would say changing mix- ers is at most a <i>should have</i> , <i>not a must have</i> .
3.1.6	Question	'Such a value D can be entered in a text box near the drawing canvas.' Why not something else like a spinner? I would say text box is inconvenient here, because of the error message when an invalid value is entered.
SRQ23 SRQ32 & SRQ33	Other Incorrect	'With four columns, to select an initial mixer geometry and initial distribution.' Sounds kinda weird, since you have four columns for only three options, so it seems. There were two columns for selecting the initial distribu- tions, right? So maybe that should be men- tioned. Note: After reading the following re- quirements, this becomes clear. But maybe some extra text under the heading 'Select a ge- ometry, mixer and initial concentration distri- bution', like under some of the other headings would be helpfull here. Actually, predefined is <i>could have</i> (see CPR14)
Change the draw- ing Tool	Incorrect	The menu doesn't have two vertical panels. It has one horizontal panel with two cells. The left cell contains a vertical panel, with multiple cells, and each cell containing a button. The right cell of the horizontal panel contains the slider.
SRQ34	Layout	Faulty reference which screws up the layout of the document.
SRQ38	Layout	The point that should be on the end of this requirement is placed under the horizontal line instead of after the requirement itself.
Define the mixing protocol for spe- cific geometries	Question/Incorrect	The protocol consists of movements of the ge- ometry, right? That's what you say in the sec- ond alinea of this section. Not of movements of the mixer as stated in the first sentence.

Location/reference	Category	Remark
Define the mixing protocol for spe- cific geometries	Incorrect	The circle geometry indeed doesn't support movement, but the mixer that is placed inside it does. Therefore you can specify how far you want to move the mixer inside the geometry, and this serves as the protocol. So the pro- tocl isn't immediately defined after selecting a mixer.
Define the mixing protocol for spe- cific geometries	Question	Why is it stated for the Journal Bearing that movements are defined by swiping, and isn't it for the rectangular/square geometry?
SRQ45	Inconsistent	In the usecases there isn't an execute step but- ton. Instead theres an 'intermediate steps' checkbox. If this checkbox is checked, selected steps are executed directly. Note: after further reading, it seems you have replaced this check- box with the 'animate mixing' checkbox, which wasn't mentioned in the URD. I do think how- ever that such an 'animate mixing' checkbox is a good idea.
SRQ58	Other	This isn't mentioned in the User requirements or in the use cases. It is nice, but maybe <i>should</i> <i>have</i> is a bit overkill.
Saving and exporting results	Incorrect	'The user can then name the file and browse to a desirable storage location. If during sav- ing the specified name for saving/exporting is already in use, the application returns a name already in use message'. Since export- ing is done through the browser, the applica- tion doesn't do anything. You also can't say anything about being able to browse to a spe- cific location, since this totally depends on your browsers download settings.
SRQ84	Incorrect	Same comment as above: depends on your browsers download settings.
SRQ90	Layout	Reference doesn't work.
SRQ92	Typo	tex ttt results has 3 t's here.
Loading Results & SRQ93 & SRQ97	Other	Loading multiple results sounds very awesome, but this wasn't mentioned anywhere in the URD (except for the performance graphs), and it also sounds pretty complicated. Therefore, I would say at least make it a <i>could have</i> instead of a <i>should have</i> .
SRQ96 & SRQ99	Question	Aren't these requirements the same?

Location/re	eference	Category	Remark
Language tion	selec-	Other	A preferred language was never mentioned be- fore (in the URD), so be careful with saying this 'should be' there.
SRQ109		Missing	Also the geometry and mixer are given as in- put.
SRQ110 SRQ112	&	Question	What do you mean with matrix files? The vec- tor which holds the concentration distribution?
SRQ114		Other	Sounds like all listed mixers are known for each geometry, which is not the case, and probably not what you meant.
Define a protocol	mixing	Other	I read all of this before, in the section 'De- fine mixing protocol for specific geometries'. Also, this section only holds for rectangular and square geometries, which isn't mentioned here.

Hugo Snel		Version 0.0
Location/reference	Category	Remark
3.1.4	Question	SRQ11 & 12 & 13 - Not all application services can add new mixers. Right now it looks like very user can define/change/remove mixers. I think we only want to give mr. Anderson the access rights to add/change/remove mixers from the list.
3.1.6	Incorrect	"the user is prompted to enter a different value." A prompt would be a bad solution I think the way the spinner is currently im- plemented the number is rounded towards the closest valid value.
3.1.6	Structure	SRQ20 & 22 contain future references (ref. to parts the reader hasn't read yet)
3.1.6	Туро	"concentration distribution is" No capital let ter at the start of the sentence.
3.1.6	Structure	"In case of the second and third option" The text never talks about "options", and suddenly they're referenced to as the 2nd and 3rd option Same for "3rd column". (Just read the SRQ' below; Only after reading them it is clear what the text above it talks about).
3.1.6	Inconsistent	Reverse movements are called (for example) " B". But 'normal' movements are not "+B". would include the "+" to be more explicit.

Location/reference	Category	Remark
3.1.6	Inconsistent	A positive T movement is a movement to the right. But a positive B movement is a movement to the left. I suggest both should be to the right, and the minus version both to the left.
3.1.6	Missing	"JSON" isn't introduced as an abbreviation anywhere
3.1.6	Other	"un-JSON's" is a strange verb, especially when JSON is a noun.
3.1.7	Other	Very strange, and lost, sentence in between SRQ46 and 47.
3.1.7	Other	SRQ50 & 51 - "spawns". Spawns is kind of a weird word in my opinion.
3.1.7	Missing	SRQ61 - Opening quote missing.
3.1.7	Inconsistent	See above. The quotes around "load buttons" is missing for other SRQ's
3.1.7	Other	"In the results window a save button" What is the result window? This window is never introduced.
3.1.7	Other	"The button changes to load selected" It is implicit, but basically every menu has a Back/Cancel button. If the name of the but- ton changes when you select something, you first have to un-select everything before you can go back. I think this isn't what we want (a cancel button should always be available). I think it's a bad idea to give 1 button 2 func- tionalities. (even though you can also cancel by clicking outside the menu).
3.1.7	Other	SRQ83 and 84 have random capitals letter T half-way the sentence.
3.1.7	Incorrect	SRQ85 - Only if 83&84 have non-empty fields.
3.1.7	Other	SRQ86 - It's not clear. Should be "Cancel The 'load file menu'". Atm it looks like cancelling the loading while its loading. Write it similar to 98.
3.1.7	Other	SRQ89 - Also for 87 i assume.
3.1.7	Other	SRQ90 - Reference to SRQ 87 is wrong.
3.1.7	Other	SRQ91 - Analogue to comment about 86.
3.1.7	Other	SRQ93 - TexTTT, 3 T's is not how you spell text
3.1.7	Question	Language select - I thought we would use a togglebutton? It's unlikely we implement more languages than english/dutch.

Location/reference	Category	Remark
3.1.8	Other	Again - I advise to not use 1 button for 2 func- tionalities.
3.1.8	Inconsistent	SRQ 106 - "visual information" =; performance graph.
3.1.9	Missing	"The server executes the mixing using" -> "Mixing run".
3.1.9	Inconsistent	+T and $+B$ should both be to the right/left, not opposing directions.
3.2.1	Incorrect	SRQ 117 118 119 - should be "ON AVERAGE ".

3.6 Chapter 4

No feedback has been given on this part of the document.

Chapter 4

SCMP Feedback

4.1 Abstract

4.1.1 Internal reviews

Femke Jansen Location/reference	Category	Version 0.1 Remark
General Remark	Other	There was already a LaTeX template available for SCMP; perhaps you can check whether you conformed to the template. Another possibil- ity is to merge the pieces you have with the text that is provided in the template.
Abstract	Missing	The reference to the ESA document doesn't work/is missing. As a consequence, all references mentioned in the document are broken/missing.

4.2 Chapter 1

4.2.1 Internal reviews

Femke Jansen Location/reference	Category	Version 0.1 Remark
1.3	Incorrect	2IP35 is the Software Engineering Project, not a Course.
1.3	Other	You don't have to translate BCF: its En- glish equivalent meaning is namely "Bureau for Computer Facilities".
1.4	Missing	The list of references is empty.

Benjamin van der Hoeven Version 0.1		
Location/reference	Category	Remark
1	Other	The introduction is in future tense, while it should be present tense.
1	Other	The introduction is strangely constructed, and the second sentence should be a subsentence of the first.
1.1	Other	Second sentence contains future tense again.
1.4	Missing	References are empty, and in turn all references show as "[?]".

4.3 Chapter 2

4.3.1 Internal reviews

Tessa Belder		Version 0.1
Location/reference	Category	Remark
2.5	Туро	"So, a standard "main" .tex-file should like as is shown" – probably should be something like "should look like as is shown".

Femke Jansen		Version 0.1
Location/reference	Category	Remark
2.1	Missing	Here, you refer to the SPMP, but there is no reference to this external document.
2.3	Missing	Again, you mention the SPMP, but there is no reference.
2.5	Question	Is it an idea to make a small figure that summa- rizes what you say in this paragraph, so people can immediately say what the required struc- ture of the documents is?
2.5	Missing	The template describes that all documents must also adhere to the requirements in SQAP and SVVP.

Benjamin van der Location/reference		Version 0.1 Remark
2	Other	First sentence of <i>Management</i> is passive, but it could easily be changed to active form.

Location/reference	Category	Remark
2.2	Missing	Master and archive libraries are introduced, but they are never explained. Only in Section 3.1 is it mentioned that these will be described in Chapter 4.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Туро	"chapter", "section" etc. should be capitalised.
2.5	Туро	It seems a word is missing in So, a standard "main" .tex-file should like as is shown in figure 2.1.

4.4 Chapter 3

4.4.1 Internal reviews

Femke Jansen		Version 0.1
Location/reference	Category	Remark
3.1	Style	The writing style of this section is a bit in- formal, in my opinion, especially the sentence "note how exception this situation sounds". It is a formal document, so a formal writing style is appropriate here.
3.1	Туро	"Et cetera" should be "etcetera", I think.

Benjamin van de	r Hoeven	Version 0.1
Location/reference	Category	Remark
3.1	Other	Future tense in first sentence of first and second paragraph.
3.2	Туро	Baseslines in second sentence.
3.2	Other	Future tense in third sentence.
3.2	Туро	Last sentence of first paragraph: <i>rebuild</i> should be <i>rebuilt</i> .

4.5 Chapter 4

4.5.1 Internal reviews

Tessa Belder		Version 0.1
Location/reference	Category	Remark
4.1.2	Missing	"on the website of the Fingerpaint applica- tion." – A reference to this site would be nice.

Location/reference	Category	Remark
4.2	Туро	"and how the libraries can accessed through it" – should be "can be accessed through it".
4.3	Туро	"who can change what in the various libraries" – should be "what is in the various libraries".
4.3.2.	Question	It says files in the master library can only be changed by the CM, but you have to contact the QM if you want to change something. Why QM and not CM? Or is this just a typo? If QM is correct, it has to be defined somewhere (it's not in the definitions list). I suppose it means quality manager, but i'm not sure.

Femke Jansen Location/reference	Category	Version 0.1 Remark
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4	Style	"Since we are at it" sounds a bit informal to me. Perhaps you can change it to, "Moreover, we will describe"
4.1	Style	In the sentence "We call a place where CIs are stored a library", I would place library between quotes, as you introduce it as a new term here.
4.1.1	Style	In project-docs, in the sentence "That is, all CIs that are stored here" I would place an additional comma somewhere, to make it more readable. It is now unclear to me what the "leading to the creation of that application"- part refers to.
4.1.1	Style	In sep-docs, I would start the second sentence with "This" instead of "That": often "that" is used in the same sentence, whereas "this" is more appropriate in a new sentence, I think.
4.1.3	Question	The purpose of the sentence "Of course, the difference is clearly stated on the website" is not clear to me. Do we have to mention explicitely that the difference is explained on the website? Now, it appears that the focus lies on the fact that the difference is stored on the website, whereas you actually just want to say that there is a difference, I think.
4.1.3	Missing	The template mentions again SQAP and SVVP, but there are not mentioned in this section.
4.3.2	Missing	You mention the SVVP document, but there is no reference to it.

Location/reference	Category	Remark
4.3.3	Missing	The template mentions SVVP, but there is no reference to that document in this subsection.
4.3.3	Style	The sentence "Note that files been approved externally" is a bit long, perhaps you can split it in multiple sentences?

Benjamin van der Location/reference	r Hoeven Category	Version 0.1 Remark
4, 4.1.1	Other	Future tense.
4.1.1	Other	It says that documents that are stored are stored in <i>The development library will store all</i> <i>versions of a CI that are stored in it.</i> I get what is meant, but it does sound strange.
4.1.1	Other	made undone should be undone.
4.1.1	Other	(Git is discussed in more detail in chapter 6) can be a main sentence instead of a subsen- tence.
4.1.1	Other	all CIs are stored here that are related to the Fingerpaint application and not to the SEP that led to the creation of that application should be all CIs that are related to the Finger- paint application and not to the SEP that led to the creation of that application are stored here.

4.6 Chapter 5

4.6.1 Internal reviews	4.6.1	Internal	reviews
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Femke Jansen		Version 0.1
Location/reference	Category	Remark
5	Question	In the template, it is mentioned that changes in the development library will not be recorded. However, in your table an entry for "current" is created?

Benjamin van der Hoeven			Version 0.1
Location/reference	Category	Remark	
5	Other	Future tense in first sentence.	

4.7 Chapter 6

4.7.1 Internal reviews

Tessa Belder		Version 0.1
Location/reference	Category	Remark
6.1.1.	Other	"to work efficiently in parallel on the same file, even to some extent on the same file" – Don't understand what is meant here exactly, but probably not two times "on the same file".
6.1.2	Туро	"GitHub is a (commercial) servers" – should be "server" (or maybe "set of servers"?).
6.1.3	Inconsistent	In this section "the GWT" is mentioned a few times, and also "GWT". I don't think this is very consistent, since "the GWT" can also be used at all places where "GWT" is used. (except for GWT-enabled).

Femke Jansen		Version 0.1
Location/reference	Category	Remark
6.1.3	Question	Is it really the case that GWT provides only two things? Or does it provide many things and are we only going to use those specific two things?
6.1.3	Туро	In the sentence "Finally, the GWT includes a plugin", "plugin" should be "plug-in".
6.1.4	Other	You have two sentences that start with "O course". This reads a bit odd and I think you actually mean to say "However" in the second sentence.
6.1.4	Other	It seems a bit strange to start a sentenc with "Still then", perhaps you can suffice with "Still".
6.1.6	Style	The style of the sentence "if the server, which we have done" is again a bit informal. Perhap you can simply remove the "which we hav done" part, or you can re-phrase it in a different way.
6.1.7	Question	I understand that we use LaTeX because of the good-looking documents, but is that really a key motivation to use LaTeX?
6.2.1	Style	Again, beware of the informal style: it is a formal document, after all.

FINGERPAINT

Benjamin van de	r Hoeven	Version 0.1
Location/reference	Category	Remark
6.1	Incorrect	Saying that we will be able to do anything the client wants is a very strong statement.
6.1	Other	Second paragraph: lots of future tense.
6.1.1	Туро	Superfluous comma in <i>Git is a distributed</i> , <i>lightweight</i> , <i>version control system</i> .
6.1.1	Туро	In <i>GitHub is a (commercial) servers</i> , servers should probably be service.
6.1.3	Other	In my opinion, writing JavaScript instead of JS looks better.
6.1.3	Missing	The five most widely used browsers are men- tioned, but not named.
6.1.4	Other	Like it is written now, <i>It is simply impossible</i> to test both browsers on implies that there are only two browsers.
6.1.4	Other	It is multilingual, including Java, which is our choice is a strange fragmented sentence.
6.2.1	Other	The colon in so the conventions are sim- ple: a developer does not want to do something complex a lot implies that "the conventions are simple, namely a developer".

4.8 Chapter 7

4.8.1 Internal reviews

Femke Jansen Location/reference	Category	Version 0.1 Remark
7	Style	The introduction text is slightly informal, try to stick to a more formal writing style.

Chapter 5

SVVP Feedback

5.1 Chapter 1

5.1.1 Internal reviews

Femke Jansen		Version 0.0
Location/reference	Category	Remark
1.2	Question	You mention that our application provides an interface for an already defined mixing pro- gram, but do you suggest here that we are the ones that made that mixing program? Now, it looks like we developed this program, whereas actually our application only visualizes the re- sults of this "already defined mixing program". Only at the end of this paragraph, you mention that the calculation is done showhere. Barbara
1.2	Missing	that the calculation is done elsewhere. Perhaps you can mention this earlier in this section. The part of the sentence "The second goal is"
		suggests that there is some enumeration. How- ever, there is no "first goal".
1.3	Incorrect	2IP35 is not a course, but a project.

5.2 Chapter 2

5.2.1 Internal reviews

Femke Jansen		Version 0.0
Location/reference	Category	Remark
2.7	Other	Selenium is the name of a product/framework, so it should be written with a capital letter in "In this project".