

PUSS214206

v. 0.3

TimeMate

Software Verification and Validation Report

Group 2

Responsible: Test Group

Authors: Test Group

2021-03-19

CONTENTS

Contents

1 Document History

Version	Date	Responsible	Description
0.1	2021-01-03	TG	Document created.
0.2	2021-03-19	TG	Ready for informal review.
0.3	2021-02-19	TG	Fixed typos, edited images, added images and updated history and version.

2 Overview

Function tests were run under the development phase as instructed in the SVVS. However additional function tests were run as well of the tester's own volition to ensure minimal functionality of the system. RT1 was performed four times during this phase.

After the initial development of the SDDD the system was tested with ST1, ST2 and ST3. The results of the mentioned system tests were reported to DG in the first informal review. After the first informal review DG further developed the SDDD and it was once again tested with ST1, ST2 and ST3 before the SDDD was put in baseline to insure that the system was operational.

After each function test and regressions test a test form was filed. These can be seen under appendix A and B respectively. System tests had their own test form and these can be seen in appendix C. The result of each test was noted in a Google sheet as specified in the SVVS. The sheet in question can be viewed under appendix D. Protocols from reviews can be seen under appendix E and appendix F. Note that some protocols in appendix E are empty, this is because we only noted if changes were made to the comments given to us by Emelie. Therefore if no comments were altered, nothing was noted.

3 Reference Documents

1. Software Verification and Validation Instructions: TimeMate, v. 1.1, Doc. number: PUSS214203

4 Test Process

Before testing commenced it was known that FT16 would be left out. This after DG insisted that it'd be impossible to test.

Function test FT7, FT25 and FT26 should be noted. Though they initially passed their individual function test they later failed during the first wave of system tests because the initial implementation was wrong and was corrected by DG just before the system tests took place. The tests failed since it could not be tested according to the instructions in the SVVI, that commanded the tester to add a user with a username shorter than five characters, something that is specified in the base system SRS should not be allowed. This is not to say that the function did not work, it did, had the input been correct, but instead it's to say that the tests in the SVVI had to be rewritten. It

should also be noted that FT22 and FT23 failed in the first wave of system tests for two tester's who were conducting ST3. This was noted by DG during the first informal review.

In the second wave of system test, which was conducted before informal review two, FT7, FT25 and FT26 passed along with all other functions and system tests. The SDDD was put in baseline shortly after informal review two. It should be noted however that FT14, FT15, FT22, FT23, FT28 worked for all test members except one and is therefore marked yellow in the Google sheet. However since it worked on a majority of computers it was ruled that this was an unknown error caused by an unknown source local to that tester's PC.

5 Appendices

- **A.** Function Test Result
- **B.** Regression Test Result
- **C.** System Test Result
- **D.** Test Result in Google Sheet
- **E.** Review Protocols
- **F.** Informal Review Protocols

A. Function Test Result

TEST FORM

Test Info

Test Number: FT1 **Date of Test:** 2021 03 01 

YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed: Yes No

Class Tested: DataBase, Login, UserBean

Grade: D

Grade	Meaning
A	Causes system crash.
B	Tests fails but system runs.
C	Passed test but with lesser problems.
D	Passed test with no problems.

Failed at Instruction: -

Comment:
-

Test Performed by: Alexander Möhle

Figure 1: Test form for FT1

TEST FORM	
Test Info	
Test Number: FT2	Date of Test 2021 03 01 
YEAR MONTH DAY	
Test Type	
<input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	JUnit Test <input checked="" type="radio"/> Yes <input type="radio"/> No
Test Result	
Passed <input checked="" type="radio"/> Yes <input type="radio"/> No	Class Tested: DataBase, Login, UserBean
Grade	Meaning
A	Causes system crash.
B	Tests fails but system runs.
C	Passed test but with lesser problems.
D	Passed test with no problems.
Grade: D	
Failed at Instruction: -	
Comment: 	
Test Performed by: Alexander Möhle	

Figure 2: Test form for FT2

TEST FORM

Test Info

Test Number: FT3 **Date of Test:** 2021 03 03 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed
 Yes **Class Tested:** servlets.Login
 No

Grade	Meaning	Grade:
A	Causes system crash.	D
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:

Test Performed by: Malte Wallander

Figure 3: Test form for FT3

TEST FORM

Test Info

Test Number: FT4 **Date of Test:** 2021 03 03 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed
 Yes **Class Tested:** servlets.Login
 No

Grade	Meaning	Grade:
A	Causes system crash.	D
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:

Test Performed by: Malte Wallander

Figure 4: Test form for FT4

TEST FORM

Test Info

Test Number: **Date of Test:** 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed
 Yes **Class Tested:**
 No

Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	Failed at Instruction: <input type="text" value="-"/>
D	Passed test with no problems.	

Comment:

Test Performed by:

Figure 5: Test form for FT5

TEST FORM

Test Info

Test Number: FT6 **Date of Test:** 2021 03 04 
YEAR MONTH DAY

Test Type

System test **JUnit Test:** Yes
 Function test No
 Regression test

Test Result

Passed: Yes No

Class Tested: MailHandler, PasswordHandler, DataBase

Grade	Meaning	Grade:
A	Causes system crash.	D
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:
-

Test Performed by: Alexander Möhle

Figure 6: Test form for FT6

TEST FORM

Test Info

Test Number: FT7 **Date of Test:** 2021 03 04 
YEAR MONTH DAY

Test Type

System test **JUnit Test:** Yes
 Function test No
 Regression test

Test Result

Passed: Yes **Class Tested:** MailHandler, PasswordHandler, DataBase
 No

Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:
-

Test Performed by: Alexander Möhle

Figure 7: Test form for FT7

TEST FORM

Test Info

Test Number: FT8 **Date of Test:** 2021 03 03 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed **Class Tested:** PasswordChangerServlet
 Yes
 No

Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:
-

Test Performed by: Lazar Trpeski

Figure 8: Test form for FT8

TEST FORM

Test Info

Test Number: FT9 **Date of Test:** 2021 03 03 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed **Class Tested:** PasswordChangerServlet
 Yes
 No

Grade	Meaning	Grade:
A	Causes system crash.	D
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:
-

Test Performed by: Lazar Trpeski

Figure 9: Test form for FT9

TEST FORM

Test Info

Test Number: FT10 **Date of Test:** 2021 03 03 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed
 Yes **Class Tested:** servlets.LogOut
 No

Grade	Meaning	Grade:
A	Causes system crash.	D
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	Failed at Instruction: -
D	Passed test with no problems.	

Comment:

Test Performed by:
Malte Wallander

Figure 10: Test form for FT10

TEST FORM

Test Info

Test Number: FT11 **Date of Test:** 2021 03 03 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed
 Yes **Class Tested:** PasswordChangerServlet
 No

Grade	Meaning	Grade:
A	Causes system crash.	D
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:
-

Test Performed by: Lazar Trpeski

Figure 11: Test form for FT11

TEST FORM

Test Info

Test Number:	Date of Test		
<input type="text" value="FT12"/>	<input type="text" value="2021"/>	<input type="text" value="03"/>	<input type="text" value="03"/>
	YEAR	MONTH	DAY

Test Type

System test Function test Regression test

JUnit Test

Yes No

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="text" value="PasswordChangerServlet"/>

Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction:

Comment:
"Password changed successfully" Står även om jag inte har ändrat lösenordet.

Test Performed by:

Figure 12: Test form for FT12

TEST FORM

Test Info

Test Number: FT18 **Date of Test:** 2021 03 02 

YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed: Yes No

Class Tested: usermanagement, UserManagementServlet

Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:
-

Test Performed by:
Alexander Möhle

Figure 13: Test form for FT18

TEST FORM

Test Info

Test Number:	Date of Test		
<input type="text" value="FT19"/>	<input type="text" value="2021"/>	<input type="text" value="03"/>	<input type="text" value="02"/> 
	YEAR	MONTH	DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed	Class Tested:
<input type="radio"/> Yes	<input type="text" value="usermanagement, UserManagementServlet"/>
<input checked="" type="radio"/> No	

Grade **Meaning**

A	Causes system crash.	Grade:	<input type="text" value="B"/>
B	Tests fails but system runs.		
C	Passed test but with lesser problems.	Failed at Instruction:	<input type="text" value="5"/>
D	Passed test with no problems.		

Comment:
You can change roles on Malte but all project leaders roles is set to null. See problem report 14 for more info.

Test Performed by:

Figure 14: Test form for FT19

TEST FORM	
Test Info	
Test Number: FT20	Date of Test 2021 03 02 
YEAR	MONTH DAY
Test Type	JUnit Test
<input type="checkbox"/> System test	<input type="radio"/> Yes
<input checked="" type="checkbox"/> Function test	<input checked="" type="radio"/> No
<input type="checkbox"/> Regression test	
Test Result	
Passed <input checked="" type="radio"/> Yes <input type="radio"/> No	Class Tested: usermanagement, UserManagementServlet
Grade	Meaning
A	Causes system crash.
B	Tests fails but system runs.
C	Passed test but with lesser problems.
D	Passed test with no problems.
Grade:	C
Failed at Instruction:	3
Comment: You can't even select the different roles for the project leader.	
Test Performed by: Alexander Möhle	

Figure 15: Test form for FT20

TEST FORM

Test Info

Test Number:	Date of Test		
<input type="text" value="FT21"/>	<input type="text" value="2021"/>	<input type="text" value="03"/>	<input type="text" value="02"/>
	YEAR	MONTH	DAY
Test Type			
<input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test		JUnit Test <input type="radio"/> Yes <input checked="" type="radio"/> No	

Test Result

Passed	Class Tested:	
<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="text" value="usermanagement, UserManagementServlet"/>	
Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="B"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	
Failed at Instruction:		
<input type="text" value="4"/>		
Comment:		
<small>Afte pressing confirm you can change roles on Project leaders and all project leaders roles is set to null. See problem report 15 for more info.</small>		

Test Performed by:

Figure 16: Test form for FT21

TEST FORM

Test Info

Test Number: FT24 **Date of Test:** 2021 03 04 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed
 Yes **Class Tested:** AdministrationServlet, UserBean, DataBase
 No

Grade **Meaning**

A	Causes system crash.	Grade: D
B	Tests fails but system runs.	Failed at Instruction: -
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Comment:
-

Test Performed by: Alexander Möhle

Figure 17: Test form for FT24

TEST FORM

Test Info

Test Number: **Date of Test:** 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Yes
 Function test
 No
 Regression test

Test Result

Passed
 Yes
 No

Class Tested: DataBase, AdminstrationServlet, UserBean

Grade:

Grade	Meaning
A	Causes system crash.
B	Tests fails but system runs.
C	Passed test but with lesser problems.
D	Passed test with no problems.

Failed at Instruction: -

Comment:

Test Performed by:

Figure 18: Test form for FT25

TEST FORM

Test Info

Test Number: **Date of Test:** 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Yes
 Function test
 No
 Regression test

Test Result

Passed **Class Tested:**
 Yes
 No

Grade **Meaning** **Grade:**

A	Causes system crash.	
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	Failed at Instruction: <input type="text" value="-"/>
D	Passed test with no problems.	

Comment:

Test Performed by:

Figure 19: Test form for FT26

TEST FORM

Test Info

Test Number: **Date of Test:** 
YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed **Class Tested:**
 Yes No

Grade **Meaning** **Grade:**

A	Causes system crash.	
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	Failed at Instruction: <input type="text" value="-"/>
D	Passed test with no problems.	

Comment:

Test Performed by:

Figure 20: Test form for FT27

TEST FORM

Test Info

Test Number: FT29 **Date of Test:** 2021 03 02 

YEAR MONTH DAY

Test Type

System test **JUnit Test**
 Function test Yes
 Regression test No

Test Result

Passed: Yes No

Class Tested: usermanagement, UserManagementServlet

Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction: -

Comment:
-

Test Performed by: Alexander Möhle

Figure 21: Test form for FT29

TEST FORM	
Test Info	
Test Number: FT30	Date of Test 2021 03 02 
YEAR MONTH DAY	
Test Type	
<input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	JUnit Test <input type="radio"/> Yes <input checked="" type="radio"/> No
Test Result	
Passed <input checked="" type="radio"/> Yes <input type="radio"/> No	Class Tested: usermanagement, UserManagementServlet
Grade Meaning	Grade: D
A Causes system crash.	
B Tests fails but system runs.	
C Passed test but with lesser problems.	Failed at Instruction: -
D Passed test with no problems.	
Comment: -	
Test Performed by: Alexander Möhle	

Figure 22: Test form for FT30

TEST FORM	
Test Info	
Test Number: FT31	Date of Test 2021 03 03 
YEAR MONTH DAY	
Test Type	
<input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	JUnit Test <input type="radio"/> Yes <input checked="" type="radio"/> No
Test Result	
Passed <input checked="" type="radio"/> Yes <input type="radio"/> No	Class Tested: AdministrationServlet, UserManagementBea
Grade Meaning	Grade: <input type="text" value="D"/>
A	Causes system crash.
B	Tests fails but system runs.
C	Passed test but with lesser problems.
D	Passed test with no problems.
Failed at Instruction: <input type="text" value="-"/>	
Comment: <input type="text" value="-"/>	
Test Performed by: Alexander Möhle	

Figure 23: Test form for FT31

B. Regression Test Result

TEST FORM

Test Info

Test Number:	Date of Test		
<input type="text" value="RT1 (FT1, FT18)"/>	<input type="text" value="2021"/>	<input type="text" value="03"/>	<input type="text" value="03"/> 
	YEAR	MONTH	DAY

Test Type

<input type="checkbox"/> System test	JUnit Test
<input type="checkbox"/> Function test	<input checked="" type="radio"/> Yes
<input checked="" type="checkbox"/> Regression test	<input type="radio"/> No

Test Result

Passed	Class Tested:	
<input checked="" type="radio"/> Yes	<input type="text" value="usermanagement, UserManagementServlet"/>	
<input type="radio"/> No		
Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	Failed at Instruction:
D	Passed test with no problems.	<input type="text" value="-"/>

Comment:

Test Performed by:

Figure 24: Regression test form for RT1 (FT1,FT18)

TEST FORM

Test Info

Test Number:	Date of Test		
<input type="text" value="RT1 (FT1, FT19)"/>	<input type="text" value="2021"/>	<input type="text" value="03"/>	<input type="text" value="03"/>
	YEAR	MONTH	DAY

Test Type	JUnit Test
<input type="checkbox"/> System test <input type="checkbox"/> Function test <input checked="" type="checkbox"/> Regression test	<input checked="" type="radio"/> Yes <input type="radio"/> No

Test Result

Passed	Class Tested:	
<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="text" value="usermanagement, UserManagementServlet"/>	
Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	Failed at Instruction:
D	Passed test with no problems.	<input type="text" value="-"/>

Comment:

Test Performed by:

Figure 25: Regression test form for RT1 (FT1,FT19)

TEST FORM

Test Info

Test Number:	Date of Test		
<input type="text" value="RT1 (FT1, FT20)"/>	<input type="text" value="2021"/>	<input type="text" value="03"/>	<input type="text" value="03"/> 
	YEAR	MONTH	DAY

Test Type

<input type="checkbox"/> System test	JUnit Test
<input type="checkbox"/> Function test	<input checked="" type="radio"/> Yes
<input checked="" type="checkbox"/> Regression test	<input type="radio"/> No

Test Result

Passed	Class Tested:	
<input checked="" type="radio"/> Yes	<input type="text" value="usermanagement, UserManagementServlet"/>	
<input type="radio"/> No		
Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	Failed at Instruction:
D	Passed test with no problems.	<input type="text" value="-"/>

Comment:

Test Performed by:

Figure 26: Regression test form for RT1 (FT1,FT20)

TEST FORM

Test Info

Test Number:

Date of Test
2021 03 03 
YEAR MONTH DAY

Test Type

System test
 Function test
 Regression test

JUnit Test
 Yes
 No

Test Result

Passed
 Yes
 No

Class Tested:

Grade	Meaning	Grade:
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	
D	Passed test with no problems.	

Failed at Instruction:

Comment:

Test Performed by:

Figure 27: Regression test form for RT1 (FT1,FT21)

C. System Test Result

SYSTEM TEST FORM			
Test Info			
Test Number <input type="text" value="ST1"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="04"/> YEAR MONTH DAY		
Grade Meaning A Causes system crash. B Test fails but system runs. C Passed test but with lesser problems. D Passed test with no problems.			
Test Result			
Type a question			
FT1	<input type="text" value="Passed"/>	<input type="text" value="Failed at Instruction"/>	<input type="text" value="Grade"/>
FT2	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
FT3	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT4	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT5	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT6	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT7	<input type="text" value="No"/>	<input type="text" value="1"/>	<input type="text" value="B"/>
FT8	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT9	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT10	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT11	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT12	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>
FT13	<input type="text" value="Yes"/>	<input type="text" value=""/>	<input type="text" value="D"/>

FT14	Yes	-	D
FT15	Yes	-	D
FT16	-	-	-
FT17	Yes	-	D
FT18	Yes	-	D
FT19	Yes	-	D
FT20	Yes	-	D
FT21	Yes	-	D
FT22	Yes	-	D
FT23	Yes	-	D
FT24	Yes	-	D
FT25	No	4	B
FT26	No	4	B
FT27	Yes	-	D
FT28	Yes	-	D
FT29	Yes	-	D
FT30	Yes	-	D
FT31	Yes	-	D

Test Performed by:

Alexander Möhle & Sebastian Forslund

Figure 28: System test form for ST1 First Wave

SYSTEM TEST FORM			
Test Info			
Test Number <input type="text" value="ST2"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="04"/> YEAR MONTH DAY		
Grade Meaning A Causes system crash. B Test fails but system runs. C Passed test but with lesser problems. D Passed test with no problems.			
Test Result			
Type a question			
FT1	<input type="checkbox" value="Passed"/> Passed	<input type="checkbox" value="Failed at Instruction"/> Failed at Instruction	<input type="checkbox" value="Grade"/> Grade
FT2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FT3	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT4	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT5	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT6	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT7	<input type="checkbox" value="No"/>	<input type="checkbox" value="1"/>	<input type="checkbox" value="B"/>
FT8	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT9	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT10	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT11	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT12	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT13	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>

FT14	Yes	-	D
FT15	Yes	-	D
FT16	-	-	-
FT17	Yes	-	D
FT18	Yes	-	D
FT19	Yes	-	D
FT20	Yes	-	D
FT21	Yes	-	D
FT22	Yes	-	D
FT23	Yes	-	D
FT24	Yes	-	D
FT25	No	4	B
FT26	No	4	B
FT27	Yes	-	D
FT28	Yes	-	D
FT29	Yes	-	D
FT30	Yes	-	D
FT31	Yes	-	D

Test Performed by:

Malte Wallander, Sebastian Anon Forslund

Figure 29: System test form for ST2 First Wave

SYSTEM TEST FORM			
Test Info			
Test Number	Date of Test		
ST3	2021	03	04 
	YEAR	MONTH	DAY
Grade	Meaning		
A	Causes system crash.		
B	Test fails but system runs.		
C	Passed test but with lesser problems.		
D	Passed test with no problems.		
Test Result			
Type a question			
	Passed	Failed at Instruction	Grade
FT1	-	-	-
FT2	-	-	-
FT3	Yes	-	D
FT4	Yes	-	D
FT5	Yes	-	D
FT6	Yes	-	D
FT7	No	1	B
FT8	Yes	-	D
FT9	Yes	-	D
FT10	Yes	-	D
FT11	Yes	-	D
FT12	Yes	-	D
FT13	Yes	-	D

FT14	Yes	-	D
FT15	Yes	-	D
FT16	-	-	-
FT17	Yes	-	D
FT18	Yes	-	D
FT19	Yes	-	D
FT20	Yes	-	D
FT21	Yes	-	D
FT22	No	3	B
FT23	No	3	B
FT24	Yes	-	D
FT25	No	4	B
FT26	No	4	B
FT27	Yes	-	D
FT28	Yes	-	D
FT29	Yes	-	D
FT30	Yes	-	D
FT31	Yes	-	D

Test Performed by:

Anas Abu Al-Soud & Hjalmar Janson

Figure 30: System test form for ST3 First Wave

SYSTEM TEST FORM			
Test Info			
Test Number <input type="text" value="ST1"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="08"/> YEAR MONTH DAY		
Grade Meaning A Causes system crash. B Test fails but system runs. C Passed test but with lesser problems. D Passed test with no problems.			
Test Result			
Type a question			
FT1	<input style="width: 100%; height: 100%;" type="checkbox" value="Passed"/> Passed	<input style="width: 100%; height: 100%;" type="checkbox" value="Failed at Instruction"/> Failed at Instruction	<input style="width: 100%; height: 100%;" type="checkbox" value="Grade"/> Grade
FT2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FT3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>

FT14	Yes	-	D
FT15	Yes	-	D
FT16	-	-	-
FT17	Yes	-	D
FT18	Yes	-	D
FT19	Yes	-	D
FT20	Yes	-	D
FT21	Yes	-	D
FT22	Yes	-	D
FT23	Yes	-	D
FT24	Yes	-	D
FT25	Yes	-	D
FT26	Yes	-	D
FT27	Yes	-	D
FT28	Yes	-	D
FT29	Yes	-	D
FT30	Yes	-	D
FT31	Yes	-	D

Test Performed by:

Alexander Möhle & Malte Wallander

Figure 31: System test form for ST1 Second Wave

SYSTEM TEST FORM																																																											
Test Info																																																											
Test Number	Date of Test																																																										
ST2	2021	03	08																																																								
	YEAR	MONTH	DAY																																																								
<table> <thead> <tr> <th>Grade</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Causes system crash.</td> </tr> <tr> <td>B</td> <td>Test fails but system runs.</td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> </tr> </tbody> </table>				Grade	Meaning	A	Causes system crash.	B	Test fails but system runs.	C	Passed test but with lesser problems.	D	Passed test with no problems.																																														
Grade	Meaning																																																										
A	Causes system crash.																																																										
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C	Passed test but with lesser problems.																																																										
D	Passed test with no problems.																																																										
Test Result																																																											
Type a question <table border="1"> <thead> <tr> <th></th> <th>Passed</th> <th>Failed at Instruction</th> <th>Grade</th> </tr> </thead> <tbody> <tr><td>FT1</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>FT2</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>FT3</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT4</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT5</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT6</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT7</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT8</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT9</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT10</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT11</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT12</td><td>Yes</td><td>--</td><td>D</td></tr> <tr><td>FT13</td><td>Yes</td><td>--</td><td>D</td></tr> </tbody> </table>					Passed	Failed at Instruction	Grade	FT1	--	--	--	FT2	--	--	--	FT3	Yes	--	D	FT4	Yes	--	D	FT5	Yes	--	D	FT6	Yes	--	D	FT7	Yes	--	D	FT8	Yes	--	D	FT9	Yes	--	D	FT10	Yes	--	D	FT11	Yes	--	D	FT12	Yes	--	D	FT13	Yes	--	D
	Passed	Failed at Instruction	Grade																																																								
FT1	--	--	--																																																								
FT2	--	--	--																																																								
FT3	Yes	--	D																																																								
FT4	Yes	--	D																																																								
FT5	Yes	--	D																																																								
FT6	Yes	--	D																																																								
FT7	Yes	--	D																																																								
FT8	Yes	--	D																																																								
FT9	Yes	--	D																																																								
FT10	Yes	--	D																																																								
FT11	Yes	--	D																																																								
FT12	Yes	--	D																																																								
FT13	Yes	--	D																																																								

FT14	Yes	--	D
FT15	Yes	--	D
FT16	--	--	--
FT17	Yes	--	D
FT18	Yes	--	D
FT19	Yes	--	D
FT20	Yes	--	D
FT21	Yes	--	D
FT22	Yes	--	D
FT23	Yes	--	D
FT24	Yes	--	D
FT25	Yes	--	D
FT26	Yes	--	D
FT27	Yes	--	D
FT28	Yes	--	D
FT29	Yes	--	D
FT30	Yes	--	D
FT31	Yes	--	D

Test Performed by:

Malte Wallander & Sebastian Forslund

Figure 32: System test form for ST2 Second Wave

SYSTEM TEST FORM			
Test Info			
Test Number <input type="text" value="ST3"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="08"/> YEAR MONTH DAY		
Grade Meaning A Causes system crash. B Test fails but system runs. C Passed test but with lesser problems. D Passed test with no problems.			
Test Result			
Type a question			
FT1	<input type="checkbox" value="Passed"/> Passed	<input type="checkbox" value="Failed at Instruction"/> Failed at Instruction	<input type="checkbox" value="Grade"/> Grade
FT2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FT3	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT4	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT5	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT6	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT7	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT8	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT9	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT10	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT11	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT12	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>
FT13	<input type="checkbox" value="Yes"/>	<input type="checkbox"/>	<input type="checkbox" value="D"/>

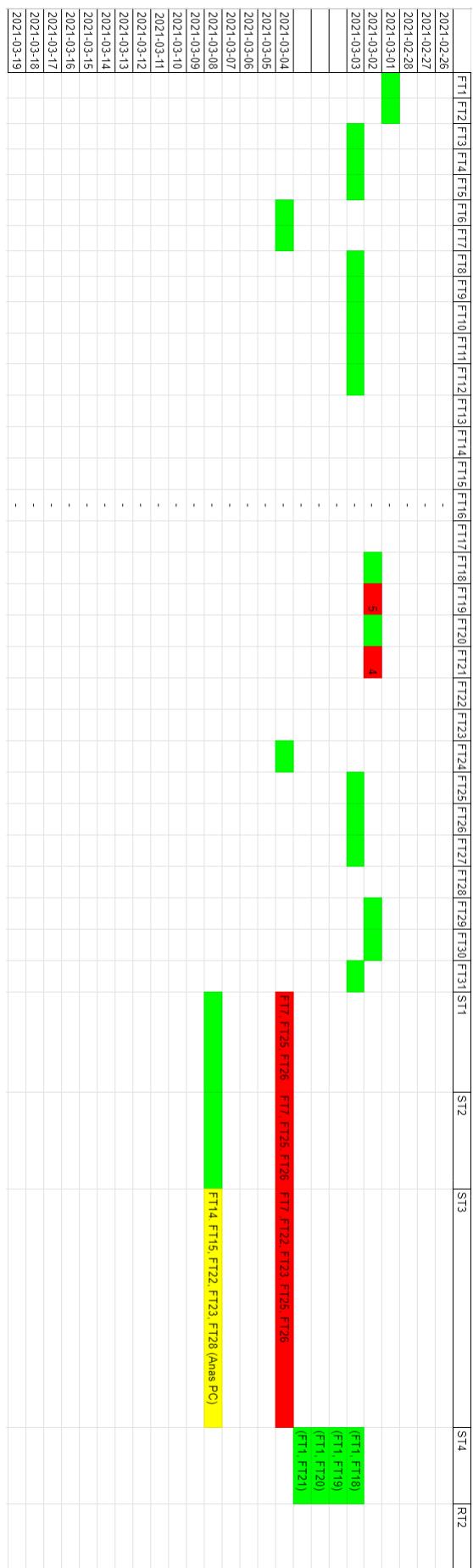
FT14	Yes	-	D
FT15	Yes	-	D
FT16	-	-	-
FT17	Yes	-	D
FT18	Yes	-	D
FT19	Yes	-	D
FT20	Yes	-	D
FT21	Yes	-	D
FT22	Yes	-	D
FT23	Yes	-	D
FT24	Yes	-	D
FT25	Yes	-	D
FT26	No	-	D
FT27	Yes	-	D
FT28	Yes	-	D
FT29	Yes	-	D
FT30	Yes	-	D
FT31	Yes	-	D

Test Performed by:

Anas Abu Al-Soud & Sebastian Forslund

Figure 33: System test form for ST3 Second Wave

D. Test Result in Google Sheet



E. Review Protocols

5 APPENDICES

Ansvarig: MH Uppgiord: MCO Datum: 121012 Dok.nr: MD96029 Version: 2.1

Sida 1/2

Figure 35: Review Protocol for SDP

5 APPENDICES

Ansvarig: MH Uppgiord: MCO Datum: 121012 Dok.nr: MD96029 Version: 2.1

Sida 1/2

Figure 36: Review Protocol for SRS

5 APPENDICES

Ansvarig: MH Uppgiord: MCO Datum: 121012 Dok.nr: MD96029 Version: 2.1

Sida 1/2

Figure 37: Review Protocol for STLDD

Ansvarig: MH Uppgiord: MCO Datum: 121012 Dok.nr: MD96029 Version: 2.1

Sida 1/2

Figure 38: Review Protocol for SVVI

5 APPENDICES

Ansvarig: MH Uppgiord: MCO Datum: 121012 Dok.nr: MD96029 Version: 2.1

Sida 1/2

Figure 39: Review Protocol for SVVS

F. Informal Review Protocols

Informal Review 1

Date: 2021-02-03
President: Victor Krook
Secretary: Assar Orpana

1 SRS

Gramatical errors The reviewers found a few grammatical errors. Authors questioned if it was a matter of taste, which it was not. Reviewers suggested some changes.

Formating There was some general confusion around formating. This started a discussion about what the standards actually are. Our in-house language expert Anna Bergvall lended us her expertise. She also offered to compile a cheat sheet.

Requirements and dependencies The reviewers had some questions regarding the placement of requirements from the base block system. Authors said that they had followed the SRS from a previous year.

Confusion around document version Apparently the wrong version has been reviewed. The newer version has fixed a few of the errors already.

2 SVVS

Grammatical errors A few notable words.

Dependencies A reviewer who authored the SRS pointed out that a requirement had been misunderstood. Some requirements that were tested had not been part of the SRS.

References A reviewer noticed that they referenced a part of the SRS that doesn't exist. Could possibly be fixed in the newer version.

Test frequency There was some confusion since some tests specified how often they would occur whilst others didn't.

3 SDP

Gramatical errors Missplaced commas. Informal formulations.

Weekly time report dead line Says friday, should be sunday.

Biggest insecurity about estimating time There seems to be a section missing.

PG suspects brown nosing since the report cant possibly be THAT good

4 Suggestions for PG

PG should create a todo list to make it clearer what everybody has to do.

Set up some sort of work distribution system.

Många småproblem. Dålig kunskap i latex och github. PG borde

Lots of small problems. Problems with latex and github. PG should have better insight into the subgroups progress.

PG should engage more with the groups.

Tell them to meet in small groups after project meetings to plan their week.

Weekly sunday meetings with leaders 18:30, pg meets at 17:30

Add another work shift, wednesdays and thursdays

Weekly emails

Figure 40: Informal Review Protocol for phase one (1/2)

5 APPENDICES

Informal Review 2, Phase 1

Date: 2021-02-10

President: Assar Orpana

Secretary: Victor Krook

§1 SRS

- The reviewees found mainly grammatical errors and typos.
- The group decides that Figure 1 should be removed.
- Several weak definitions, such as "all", was found. These should be changed because they can lead to unclear requirements.

§2 SVVS

- The reviewees found grammatical errors and typos. These will be fixed.

§3 SDP

- The reviewees minor found grammatical errors and typos. These will be fixed.

§4 Moving forward

The reviewers gives the groups responsible for each document their notes and all groups will make appropriate changes to their document. The documents should be fixed and available in the *development* branch on github by 13:00 Thursday 11/02.

Meeting closed.

Figure 41: Informal Review Protocol for phase one (2/2)

Informal Review Phase 2

Date: 2021-02-17

Time: 16:00

President: Assar Orpana

Secretary: Victor Krook

§1 Welcome

Assar opens the meeting at 16:00.

§2 Format

Assar describes the agenda and the plan for the review.

§3 Preparation

No discussion regarding preparation. Everyone is prepared.

§4 SVVI

4.1 Reviewers

The reviewers has nothing to discuss. They believe that the document is good enough for review.

4.2 Discussion

- Uncertainty regarding test FT15 in SRS caused confusion regarding editing a submitted time report. This is *not* possible and the test should be removed in SVVS. TG will create a problem report for this.
- The document is missing regression tests and the reason is because of uncertainty if it's required or not. The TG expert will be contacted to provide an answer for this.
- Clearified confusion regarding the details required in JUnit tests. The SVVS does *not* need to describe the details of how the JUnit tests work.

§5 STLDD

5.1 Reviewers

The reviewers have found mainly typos and other minor errors, like wrong version, wrong date etc. They believe that the document is good enough for review, but in need for changes before the *formal* review.

5.2 Discussion

- Confusing regarding how to write TimeMate results in the decision that TimeMate shall be written without quotes and *not* in italic.
- UG is satisfied with the comments and states that the reviewees has done a good job catching mistakes.

§6 Formal Review Schedule

Assar describes the time plan that follow.

- Fix deadline Friday 17:00
- Mini-informal Saturday 12:00
- Fix over the weekend
- Hand in Monday 08:00
- Formal Review Thursday 15:15

Meeting closed.

Figure 42: Informal Review Protocol for phase two

Informal Review 3

Date: 2021-03-05
President: Victor Krook
Secretary: Assar Orpana

1 SDDD

1.1 Test groups verdict

- One member couldn't sign time reports. Since he was the only one with this issue, TG marked the test as passed.
- All other tests passed.

1.2 Discussion

- DG clarified how the code worked, which clear up a review remark concerning the security of the password generation.
- The group decided that all unused methods would be purged.
- The group decided that the log out button being accessible via a drop down menu on slim screens complied with the visibility requirement.

All other remarks are to be corrected. Deadline for corrections is Monday (08/03)
16:00

Figure 43: Informal Review Protocol for phase three (1/2)

Informal Review 4

Date: 2021-03-08

President: Victor Krook

Secretary: Assar Orpana

1 Regarding this review

Due to there not being a formal review during this phase, PG decided early on that there would be two formal review, with latter on acting as a formal review.

2 SDDD

2.1 Test groups verdict

- Half of TG had issues with the Microsoft Edge web browser, since it was hard to recreate the issue they decided to pass it.
- All other tests passed

2.2 Discussion

- A discussion about redoing exception handling the database class took place. It was deemed to be too much effort since the current solution works.
- The serializeUID variable is to be deleted since it is never used.
- .jsp are to be commented.

Figure 44: Informal Review Protocol for phase three (2/2)