

PUSS214206

v. 0.1

TimeMate

Software Verification and Validation Report

Group 2

Responsible: Test Group

Authors: Test Group

2021-03-03

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1 Document History

Version	Date	Responsible	Description
0.1	2021-01-03	TG	Document created.

2 Overview

Function tests were run under the development phase as instructed in the SVVS. However additional function tests were run as well by the testers own volition to insure minimal function 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 UG in the first informal review. After the first informal review UG 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.

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 UG 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 UG 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 slightly. It should also be noted that FT22 and FT23 failed in the first wave of system tests for two testers who were conducting ST3. This was noted by UG 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 function tests and system tests and the SDDD was put in

baseline shortly after informal review 2. 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 testers PC.

5 Appendices

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

A. Function Test Result

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TEST FORM

Test Info

Test Number: <input type="text" value="FT1"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="01"/> <input type="button" value="Calendar"/>
	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: <input type="text" value="DataBase, Login, UserBean"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Grade</td> <td style="width: 15%;">Meaning</td> <td style="width: 60%;"></td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td><input type="text" value="D"/></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td><input type="text"/></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td><input type="text"/></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td><input type="text"/></td> </tr> </table>		Grade	Meaning		A	Causes system crash.	<input type="text" value="D"/>	B	Tests fails but system runs.	<input type="text"/>	C	Passed test but with lesser problems.	<input type="text"/>	D	Passed test with no problems.	<input type="text"/>
Grade	Meaning															
A	Causes system crash.	<input type="text" value="D"/>														
B	Tests fails but system runs.	<input type="text"/>														
C	Passed test but with lesser problems.	<input type="text"/>														
D	Passed test with no problems.	<input type="text"/>														
Comment: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																
Test Performed by: <input type="text" value="Alexander Möhle"/>																

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Figure 1: Test form for FT1

TEST FORM

Test Info

Test Number: <input type="text" value="FT2"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="01"/> <input type="button" value="Calendar"/>
	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: <input type="text" value="DataBase, Login, UserBean"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Grade</td> <td style="width: 15%;">Meaning</td> <td style="width: 70%;"></td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td><input type="text" value="D"/></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td><input type="text"/></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td><input type="text"/></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td><input type="text"/></td> </tr> </table>		Grade	Meaning		A	Causes system crash.	<input type="text" value="D"/>	B	Tests fails but system runs.	<input type="text"/>	C	Passed test but with lesser problems.	<input type="text"/>	D	Passed test with no problems.	<input type="text"/>
Grade	Meaning															
A	Causes system crash.	<input type="text" value="D"/>														
B	Tests fails but system runs.	<input type="text"/>														
C	Passed test but with lesser problems.	<input type="text"/>														
D	Passed test with no problems.	<input type="text"/>														
Comment: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																
Test Performed by: <input type="text" value="Alexander Möhle"/>																

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Figure 2: Test form for FT2

TEST FORM

Test Info

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

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	servlets.Login
<input type="radio"/> No	
Grade	Grade:
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:

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Figure 3: Test form for FT3

TEST FORM

Test Info

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

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	servlets.Login
<input type="radio"/> No	
Grade	Grade:
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:

Malte Wallander

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Figure 4: Test form for FT4

TEST FORM

Test Info

Test Number:	Date of Test		
FT5	2021	03	03
	YEAR	MONTH	DAY

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	servlets.LogOut
<input type="radio"/> No	
Grade	Grade:
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:

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Figure 5: Test form for FT5

TEST FORM

Test Info

Test Number: <input type="text" value="FT6"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="04"/> <input type="button" value="..."/> <small>YEAR MONTH DAY</small>
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: <input type="text" value="MailHandler, PasswordHandler, DataBase"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"> Grade </td> <td style="width: 15%;"> Meaning </td> <td style="width: 60%;"> Grade: <input type="text" value="D"/> </td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td></td> </tr> </table>		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.	
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: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																
Test Performed by: <input type="text" value="Alexander Möhle"/>																

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Figure 6: Test form for FT6

TEST FORM

Test Info

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

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	MailHandler, PasswordHandler, DataBase
<input type="radio"/> No	
Grade	Grade:
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

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Figure 7: Test form for FT7

TEST FORM

Test Info

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

Test Type

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

Test Result

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

Lazar Trpeski

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Figure 8: Test form for FT8

TEST FORM

Test Info

Test Number:	Date of Test		
<input type="text" value="FT9"/>	<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 checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	<input type="radio"/> Yes <input checked="" type="radio"/> No

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="text" value="PasswordChangerServlet"/>
Grade	Grade:
A	<input type="text" value="D"/>
B	
C	
D	
Failed at Instruction:	
<input type="text" value="-"/>	

Comment:

Test Performed by:

Figure 9: Test form for FT9

TEST FORM

Test Info

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

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	servlets.LogOut
<input type="radio"/> No	
Grade	Grade:
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:

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Figure 10: Test form for FT10

TEST FORM

Test Info

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

Test Type

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

Test Result

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

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Figure 11: Test form for FT11

TEST FORM

Test Info

Test Number: <input type="text" value="FT12"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="03"/> <input type="button" value="Calendar"/> <small>YEAR MONTH DAY</small>
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: <input type="text" value="PasswordChangerServlet"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"> Grade </td> <td style="width: 15%;"> Meaning </td> <td style="width: 60%;"> Grade: <input type="text" value="D"/> </td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td></td> </tr> </table>		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.	
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: <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> "Password changed successfully" Står även om jag inte har ändrat lösenordet. </div>																
Test Performed by: <input type="text" value="Lazar Trpeski"/>																

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Figure 12: Test form for FT12

TEST FORM

Test Info

Test Number:	Date of Test
FT18	2021 03 02
	YEAR MONTH DAY

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	usermanagement, UserManagementServlet
<input type="radio"/> No	
Grade	Grade:
A	D
B	
C	
D	
	Failed at Instruction:
	-

Comment:

Test Performed by:

Alexander Möhle

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Figure 13: Test form for FT18

TEST FORM

Test Info

Test Number: <input type="text" value="FT19"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="02"/> <input type="button" value="Calendar"/> <small>YEAR MONTH DAY</small>
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 type="radio"/> Yes <input checked="" type="radio"/> No	Class Tested: <input type="text" value="usermanagement, UserManagementServlet"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"> Grade </td> <td style="width: 15%;"> Meaning </td> <td style="width: 70%;"> Grade: <input type="text" value="B"/> </td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td></td> </tr> </table>		Grade	Meaning	Grade: <input type="text" value="B"/>	A	Causes system crash.		B	Tests fails but system runs.		C	Passed test but with lesser problems.		D	Passed test with no problems.	
Grade	Meaning	Grade: <input type="text" value="B"/>														
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="5"/>																
Comment: <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> You can change roles on Malte but all project leaders roles is set to null. </div>																
Test Performed by: <input type="text" value="Alexander Möhle"/>																

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Figure 14: Test form for FT19

TEST FORM

Test Info

Test Number:	Date of Test
FT20	2021 03 02
	YEAR MONTH DAY

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	usermanagement, UserManagementServlet
<input type="radio"/> No	
Grade	Grade:
A	C
B	Tests fails but system runs.
C	Passed test but with lesser problems.
D	Passed test with no problems.
	Failed at Instruction:
	3

Comment:
You can't even select the different roles for the project leader.

Test Performed by:

Alexander Möhle

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Figure 15: Test form for FT20

TEST FORM

Test Info

Test Number: <input type="text" value="FT21"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="02"/> <input type="button" value="Calendar"/>
	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 type="radio"/> Yes <input checked="" type="radio"/> No	Class Tested: <input type="text" value="usermanagement, UserManagementServlet"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Grade</td> <td style="width: 15%;">Meaning</td> <td style="width: 70%;"></td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td><input type="text" value="B"/></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td>Failed at Instruction: <input type="text" value="4"/></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td></td> </tr> </table>		Grade	Meaning		A	Causes system crash.	<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="4"/>	D	Passed test with no problems.	
Grade	Meaning															
A	Causes system crash.	<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="4"/>														
D	Passed test with no problems.															
Comment: <small>[Afte pressing confirm you can change roles on Project leaders and all project leaders roles is set to null.]</small>																

Test Performed by:

<input type="text" value="Alexander Möhle"/>	
----------------------------------------------	--

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Figure 16: Test form for FT21

TEST FORM

Test Info

Test Number: <input type="text" value="FT24"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="04"/> <input type="button" value="..."/> <small>YEAR MONTH DAY</small>
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: <input type="text" value="AdministrationServlet, UserBean, DataBase"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Grade</td> <td style="width: 15%;">Meaning</td> <td style="width: 60%;"></td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td><input type="text" value="D"/></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td></td> </tr> </table>		Grade	Meaning		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.	
Grade	Meaning															
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: <input type="text" value="-"/>																
Comment: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																
Test Performed by: <input type="text" value="Alexander Möhle"/>																

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Figure 17: Test form for FT24

In order to submit this form, you should open it with Adobe Acrobat Reader.

TEST FORM

Test Info

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

Test Type

System test
 Function test
 Regression test

JUnit Test

Yes
 No

Test Result

Passed
 Yes
 No

Class Tested:

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:

Failed at Instruction:

Comment:

Test Performed by:

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Figure 18: Test form for FT25

In order to submit this form, you should open it with Adobe Acrobat Reader.

TEST FORM

Test Info

Test Number:	Date of Test
26	2021 03 03
	YEAR MONTH DAY

Test Type

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

Test Result

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

Comment:

Test Performed by:

Anas Abu Al-Soud

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Figure 19: Test form for FT26

In order to submit this form, you should open it with Adobe Acrobat Reader.

TEST FORM

Test Info

Test Number:	Date of Test
<input type="text" value="27"/>	<input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="03"/> <input type="button" value="..."/>
	YEAR MONTH DAY

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	<input type="text" value="DataBase, AdminstrationServlet, UserBean"/>
<input type="radio"/> No	
Grade	Grade:
A	<input type="text" value="D"/>
B	
C	
D	
	Failed at Instruction:
	<input type="text" value="-"/>

Comment:

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Figure 20: Test form for FT27

TEST FORM

Test Info

Test Number: <input type="text" value="FT29"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="02"/> <input type="button" value="Calendar"/>
	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: <input type="text" value="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: <input type="text" value="D"/>
	Failed at Instruction: <input type="text" value="-"/>
Comment: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

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Figure 21: Test form for FT29

TEST FORM

Test Info

Test Number:	Date of Test		
FT30	2021	03	02
	YEAR	MONTH	DAY

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	usermanagement, UserManagementServlet
<input type="radio"/> No	
Grade	Grade:
A	D
B	
C	
D	
	Failed at Instruction:
	-

Comment:

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Figure 22: Test form for FT30

TEST FORM

Test Info

Test Number:	Date of Test
FT31	2021 03 03 
	YEAR MONTH DAY

Test Type

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

Test Result

Passed	Class Tested:
<input checked="" type="radio"/> Yes	AdministrationServlet, UserManagementBea
<input type="radio"/> No	

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:

Failed at Instruction:

Comment:

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Figure 23: Test form for FT31

B. Regression Test Result

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TEST FORM

Test Info

Test Number:	Date of Test
RT1 (FT1, FT18)	2021 03 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	usermanagement, UserManagementServlet
<input type="radio"/> No	
Grade	Grade:
A	D
B	
C	
D	
	Failed at Instruction:
	-

Comment:

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

TEST FORM

Test Info

Test Number:	Date of Test
RT1 (FT1, FT19)	2021 03 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	usermanagement, UserManagementServlet
<input type="radio"/> No	
Grade	Grade:
A	D
B	
C	
D	
	Failed at Instruction:
	-

Comment:

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

TEST FORM

Test Info

Test Number:	Date of Test
RT1 (FT1, FT20)	2021 03 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	usermanagement, UserManagementServlet
<input type="radio"/> No	
Grade	Grade:
A	D
B	
C	
D	
	Failed at Instruction:
	-

Comment:

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 JotForm

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

TEST FORM

Test Info

Test Number: <input type="text" value="RT1 (FT1, FT21)"/>	Date of Test <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="03"/> <input type="button" value="..."/> <small>YEAR MONTH DAY</small>
Test Type <input type="checkbox"/> System test <input type="checkbox"/> Function test <input checked="" 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: <input type="text" value="usermanagement, UserManagementServlet"/>															
Grade: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Grade</td> <td style="width: 15%;">Meaning</td> <td style="width: 60%;"></td> </tr> <tr> <td>A</td> <td>Causes system crash.</td> <td><input type="text" value="D"/></td> </tr> <tr> <td>B</td> <td>Tests fails but system runs.</td> <td><input type="text"/></td> </tr> <tr> <td>C</td> <td>Passed test but with lesser problems.</td> <td><input type="text"/></td> </tr> <tr> <td>D</td> <td>Passed test with no problems.</td> <td><input type="text"/></td> </tr> </table>		Grade	Meaning		A	Causes system crash.	<input type="text" value="D"/>	B	Tests fails but system runs.	<input type="text"/>	C	Passed test but with lesser problems.	<input type="text"/>	D	Passed test with no problems.	<input type="text"/>
Grade	Meaning															
A	Causes system crash.	<input type="text" value="D"/>														
B	Tests fails but system runs.	<input type="text"/>														
C	Passed test but with lesser problems.	<input type="text"/>														
D	Passed test with no problems.	<input type="text"/>														
Comment: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																
Test Performed by: <input type="text" value="Alexander Möhle"/>																

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

C. System Test Result

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SYSTEM TEST FORM			
Test Info			
Test Number	Date of Test		
ST1	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

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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

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Figure 28: System test form for ST1 First Wave

SYSTEM TEST FORM			
Test Info			
Test Number	Date of Test		
ST2	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

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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

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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

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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

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Figure 30: System test form for ST3 First Wave

SYSTEM TEST FORM			
Test Info			
Test Number	Date of Test		
ST1	2021	03	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			
	Passed	Failed at Instruction	Grade
FT1	<input type="text" value="-"/>	<input type="text" value="-"/>	<input type="text" value="-"/>
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="Yes"/>	<input type="text" value="-"/>	<input type="text" value="D"/>
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"/>

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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

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Figure 31: System test form for ST1 Second Wave

In order to submit this form, you should open it with Adobe Acrobat Reader.

SYSTEM TEST FORM			
Test Info			
Test Number ST2		Date of Test 2021 03 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			
	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

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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

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Figure 32: System test form for ST2 Second Wave

SYSTEM TEST FORM			
Test Info			
Test Number	Date of Test		
ST3	2021	03	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			
	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

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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

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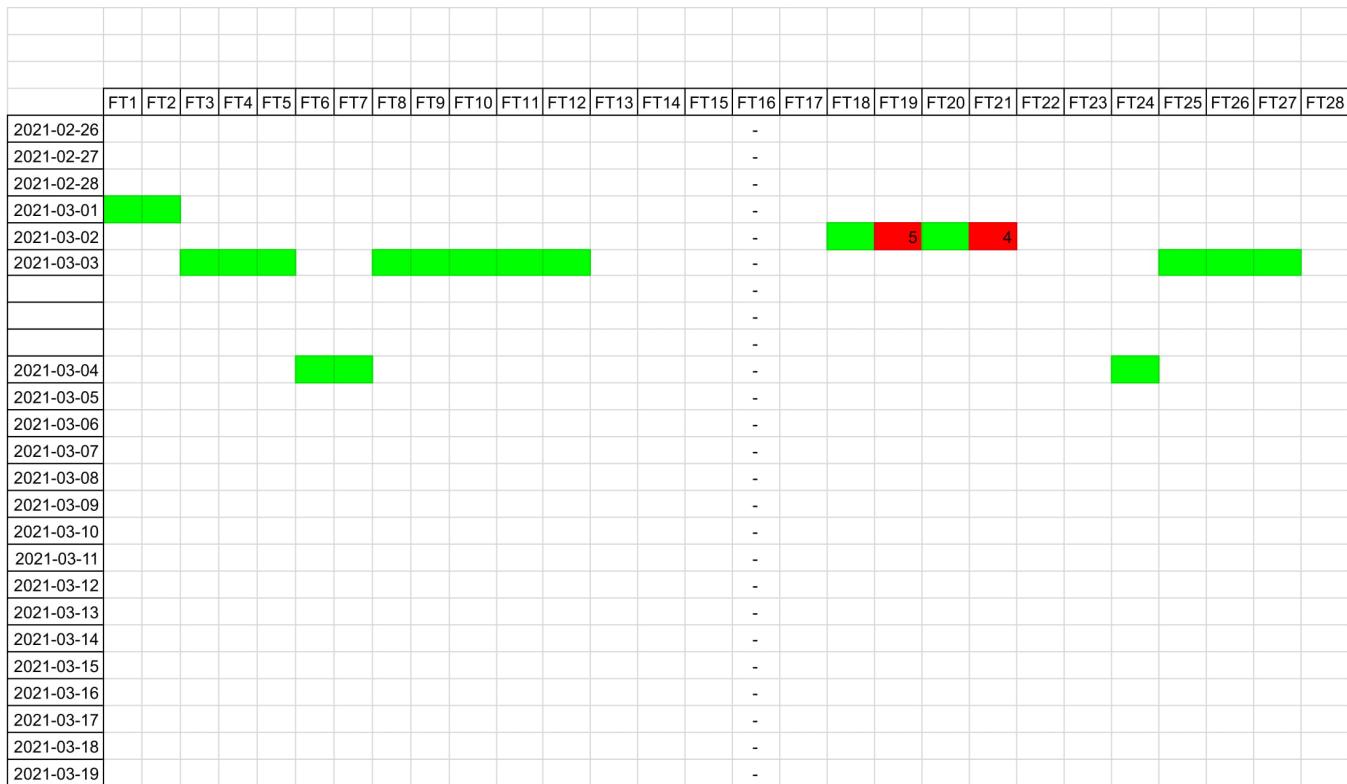
 **JotForm** ²

Figure 33: System test form for ST3 Second Wave

D. Test Result in Google Sheet

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Figure 34: Test Result in Google Sheet

E. Review Protocols

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Ansvarig: MH

Uppgjord: MCO

Datum: 121012

Dok.nr: MD96029

Version: 2.1

Sida 1/2

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GRANSKNINGSPROTOKOLL

Sida 2/2

Figure 35: Review Protocol for SDP

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

Sida 1/2

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GRANSKNINGSPROTOKOLL

Sida 2/2

Figure 36: Review Protocol for SRS

Ansvarig: MH

Uppgjord: MCO

Datum: 121012

Dok.nr: MD96029

Version: 2.1

Sida 1/2

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GRANSKNINGSPROTOKOLL

Sida 2/2

Figure 37: Review Protocol for STLDD

Ansvarig: MH

Uppgjord: MCO

Datum: 121012

Dok.nr: MD96029

Version: 2.1

Sida 1/2

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GRANSKNINGSPROTOKOLL

Sida 2/2

Figure 38: Review Protocol for SVVI

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

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GRANSKNINGSPROTOKOLL

Sida 2/2

Figure 39: Review Protocol for SVVS