

**PUSS214206**

v. 0.3

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**TimeMate**

Software Verification and Validation Report

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Group 2

Responsible: Test Group

Authors: Test Group

2021-03-19

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## 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**

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 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

<b>Test Number:</b>	<b>Date of Test</b>		
<input type="text" value="FT4"/>	<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	<b>JUnit Test</b>
<input checked="" type="checkbox"/> Function test	<input type="radio"/> Yes
<input type="checkbox"/> Regression test	<input checked="" type="radio"/> No

---

### Test Result

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

**Comment:**

---

**Test Performed by:**

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.	<b>Failed at Instruction:</b> <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**

<b>Test Number:</b> FT8	<b>Date of Test</b> 2021 03 03  YEAR MONTH DAY
<b>Test Type</b> <input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	<b>JUnit Test</b> <input type="radio"/> Yes <input checked="" type="radio"/> No

**Test Result**

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

**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.	
D	Passed test with no problems.	

**Failed at Instruction:** -

**Comment:**

---

**Test Performed by:** Malte Wallander

Figure 10: Test form for FT10

**TEST FORM**

**Test Info**

<b>Test Number:</b> FT11	<b>Date of Test</b> 2021 03 03  YEAR MONTH DAY
<b>Test Type</b> <input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	<b>JUnit Test</b> <input type="radio"/> Yes <input checked="" type="radio"/> No

**Test Result**

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

**Comment:**  
-

**Test Performed by:**  
Lazar Trpeski

Figure 11: Test form for FT11

**TEST FORM**

---

### Test Info

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

---

<b>Test Type</b>	<b>JUnit Test</b>
<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

<b>Passed</b>	<b>Class Tested:</b>	
<input checked="" type="radio"/> Yes	<input type="text" value="PasswordChangerServlet"/>	
<input type="radio"/> No		
<b>Grade</b>	<b>Meaning</b>	<b>Grade:</b>
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.	
		<b>Failed at Instruction:</b>
		<input type="text" value="-"/>

---

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

---

**Test Performed by:**

Figure 12: Test form for FT12

<b>TEST FORM</b>	
<b>Test Info</b>	
<b>Test Number:</b> FT18	<b>Date of Test</b> 2021 03 02 
YEAR      MONTH      DAY	
<b>Test Type</b>	
<input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	<b>JUnit Test</b> <input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Test Result</b>	
<b>Passed</b> <input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Class Tested:</b> usermanagement, UserManagementServlet
<b>Grade</b>	<b>Meaning</b>
A	Causes system crash.
B	Tests fails but system runs.
C	Passed test but with lesser problems.
D	Passed test with no problems.
<b>Grade:</b> D	
<b>Failed at Instruction:</b> -	
<b>Comment:</b> -	
<b>Test Performed by:</b> Alexander Möhle	

Figure 13: Test form for FT18

**TEST FORM**

---

**Test Info**

<b>Test Number:</b>	<b>Date of Test</b>		
<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**

<b>Passed</b> <input type="radio"/> Yes <input checked="" type="radio"/> No	<b>Class Tested:</b> <input type="text" value="usermanagement, UserManagementServlet"/>	
<b>Grade</b>	<b>Meaning</b>	<b>Grade:</b> <input type="text" value="B"/>
A	Causes system crash.	
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	<b>Failed at Instruction:</b> <input type="text" value="5"/>
D	Passed test with no problems.	

**Comment:**

---

**Test Performed by:**

Figure 14: Test form for FT19

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

Figure 15: Test form for FT20

**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:**

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.	<b>Failed at Instruction:</b> <input type="text" value="4"/>
D	Passed test with no problems.	

**Comment:**  
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.

---

**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.	<b>Grade:</b> D
B	Tests fails but system runs.	<b>Failed at Instruction:</b> -
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.	<b>Failed at Instruction:</b> <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.	<b>Failed at Instruction:</b> <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

<b>Grade</b>	<b>Meaning</b>	<b>Grade:</b>
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

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

Figure 22: Test form for FT30

<b>TEST FORM</b>	
<b>Test Info</b>	
<b>Test Number:</b> FT31	<b>Date of Test</b> 2021 03 03 
YEAR      MONTH      DAY	
<b>Test Type</b>	
<input type="checkbox"/> System test <input checked="" type="checkbox"/> Function test <input type="checkbox"/> Regression test	<b>JUnit Test</b> <input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Test Result</b>	
<b>Passed</b> <input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Class Tested:</b> AdministrationServlet, UserManagementBea
<b>Grade</b> <b>Meaning</b>	<b>Grade:</b> <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.
<b>Failed at Instruction:</b> <input type="text" value="-"/>	
<b>Comment:</b> <input type="text" value="-"/>	
<b>Test Performed by:</b> Alexander Möhle	

Figure 23: Test form for FT31

**B. Regression Test Result**

**TEST FORM**

---

### Test Info

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

---

### Test Result

<b>Passed</b>	<b>Class Tested:</b>	
<input checked="" type="radio"/> Yes	<input type="text" value="usermanagement, UserManagementServlet"/>	
<input type="radio"/> No		
<b>Grade</b>	<b>Meaning</b>	<b>Grade:</b>
A	Causes system crash.	<input type="text" value="D"/>
B	Tests fails but system runs.	
C	Passed test but with lesser problems.	<b>Failed at Instruction:</b>
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**  
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 25: Regression test form for RT1 (FT1,FT19)

**TEST FORM**

---

### Test Info

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

---

### Test Result

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

<b>Test Number:</b>	<b>Date of Test</b>		
<input type="text" value="RT1 (FT1, FT21)"/>	<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	<b>JUnit Test</b>
<input type="checkbox"/> Function test	<input checked="" type="radio"/> Yes
<input checked="" type="checkbox"/> Regression test	<input type="radio"/> No

---

### Test Result

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

**Comment:**

---

**Test Performed by:**

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

### C. System Test Result

SYSTEM TEST FORM			
<b>Test Info</b>			
<b>Test Number</b> <input type="text" value="ST1"/>	<b>Date of Test</b> <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="04"/> YEAR      MONTH      DAY		
<b>Grade    Meaning</b> A    Causes system crash. B    Test fails but system runs. C    Passed test but with lesser problems. D    Passed test with no problems.			
<b>Test Result</b>			
<b>Type a question</b>			
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			
<b>Test Info</b>			
<b>Test Number</b> <input type="text" value="ST2"/>	<b>Date of Test</b> <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="04"/> YEAR      MONTH      DAY		
<b>Grade    Meaning</b> A    Causes system crash. B    Test fails but system runs. C    Passed test but with lesser problems. D    Passed test with no problems.			
<b>Test Result</b>			
<b>Type a question</b>			
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

<b>SYSTEM TEST FORM</b>			
<b>Test Info</b>			
<b>Test Number</b>	<b>Date of Test</b>		
ST3	2021	03	04 
	YEAR	MONTH	DAY
<b>Grade</b>	<b>Meaning</b>		
A	Causes system crash.		
B	Test fails but system runs.		
C	Passed test but with lesser problems.		
D	Passed test with no problems.		
<b>Test Result</b>			
<b>Type a question</b>			
	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			
<b>Test Info</b>			
<b>Test Number</b> <input type="text" value="ST1"/>	<b>Date of Test</b> <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="08"/> YEAR      MONTH      DAY		
<b>Grade    Meaning</b> A    Causes system crash. B    Test fails but system runs. C    Passed test but with lesser problems. D    Passed test with no problems.			
<b>Test Result</b>			
<b>Type a question</b>			
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	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

<b>SYSTEM TEST FORM</b>																																																											
<b>Test Info</b>																																																											
<b>Test Number</b>	<b>Date of Test</b>																																																										
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.																																																										
B	Test fails but system runs.																																																										
C	Passed test but with lesser problems.																																																										
D	Passed test with no problems.																																																										
<b>Test Result</b>																																																											
<b>Type a question</b> <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			
<b>Test Info</b>			
<b>Test Number</b> <input type="text" value="ST3"/>	<b>Date of Test</b> <input type="text" value="2021"/> <input type="text" value="03"/> <input type="text" value="08"/> YEAR      MONTH      DAY		
<b>Grade    Meaning</b> A    Causes system crash. B    Test fails but system runs. C    Passed test but with lesser problems. D    Passed test with no problems.			
<b>Test Result</b>			
<b>Type a question</b>			
FT1	Passed <input type="text" value="-"/>	Failed at Instruction <input type="text" value="-"/>	Grade <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"/>

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

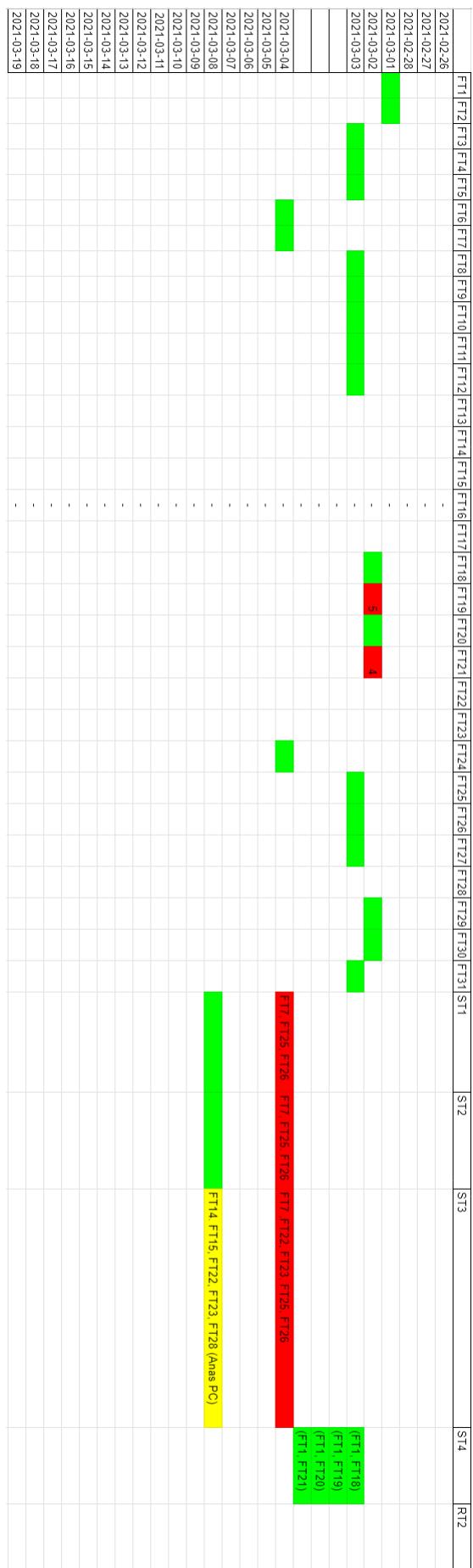
---

**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

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### 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

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### 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)